

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P271268

Luminaire Tested: **XNV-AF-01-LED-U-T3-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-T3-7027-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5766.2 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

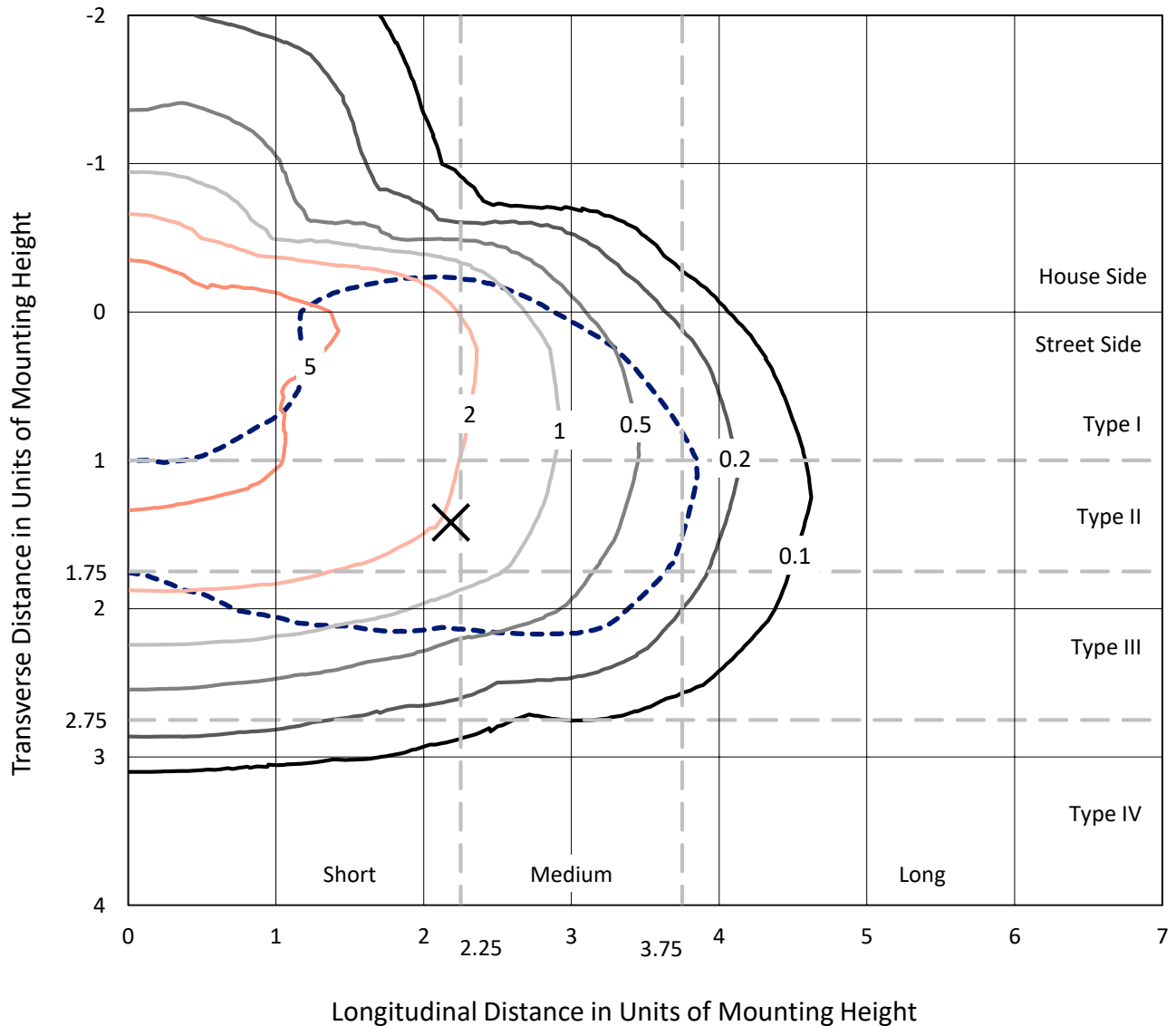
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

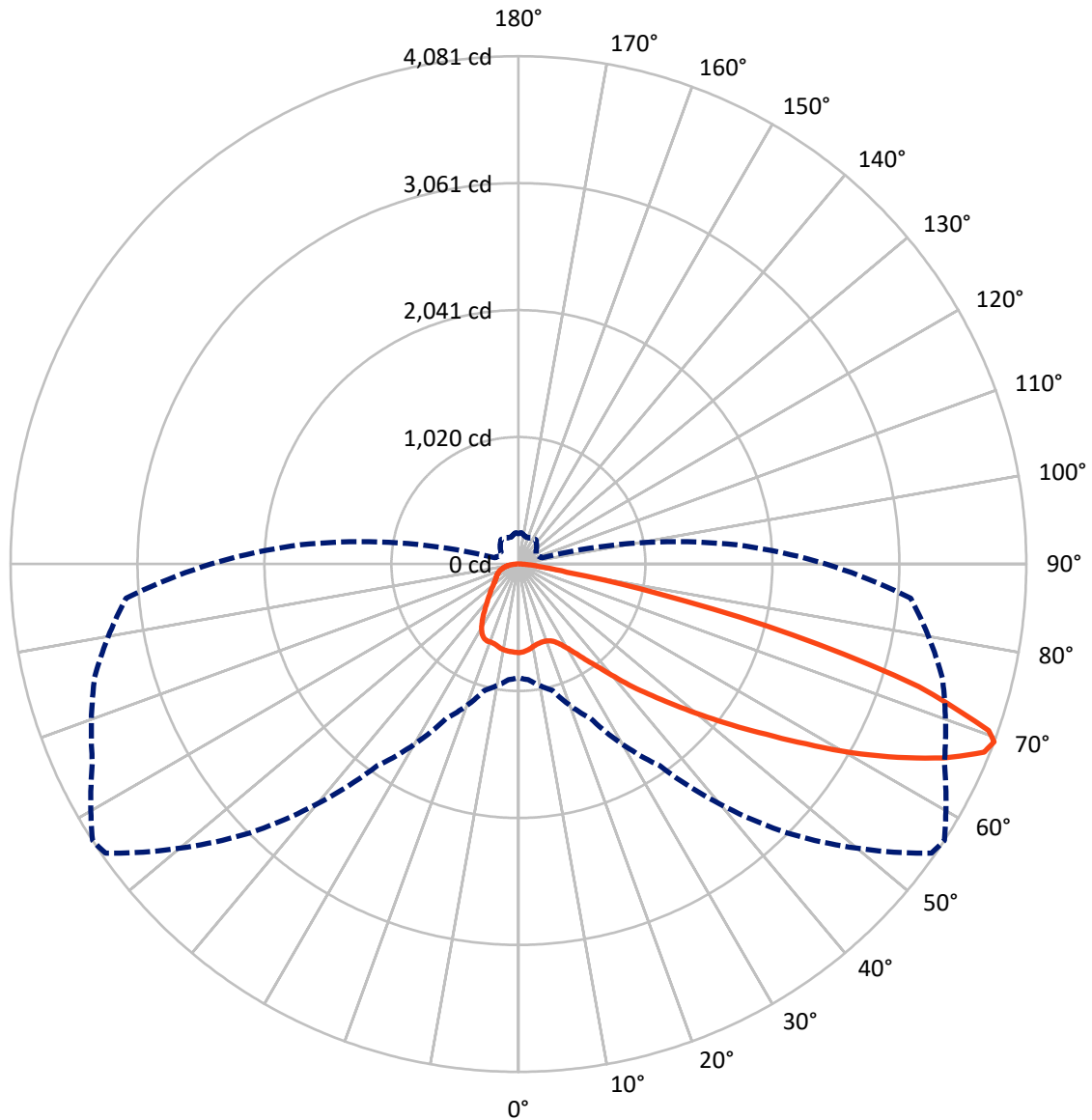
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - Semi-Cutoff

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CATALOG NUMBER: XNV-AF-01-LED-U-T3-7027-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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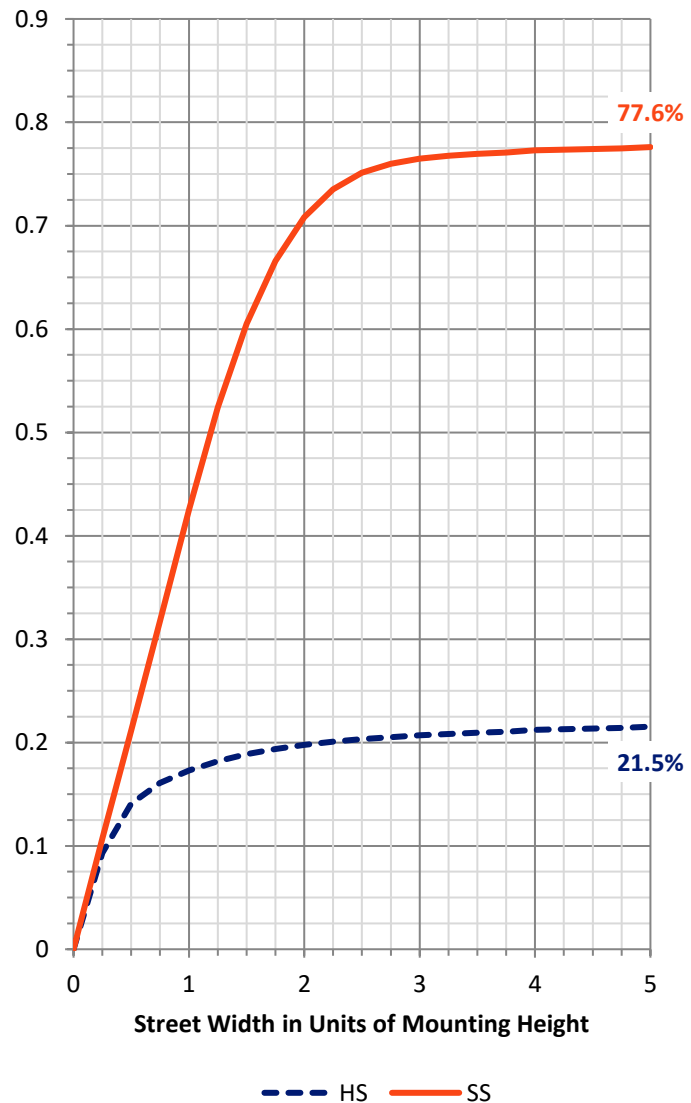
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1272.4	0.0	1272.4
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	4493.8	0.0	4493.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	5766.2	0.0	5766.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	1.2
10°-20°	189.6	3.3
20°-30°	315.5	5.5
30°-40°	515.2	8.9
40°-50°	869.5	15.1
50°-60°	1352.5	23.5
60°-70°	1611.1	27.9
70°-80°	750.6	13.0
80°-90°	95.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5766.2	100.0
0°-180°	5766.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P271268

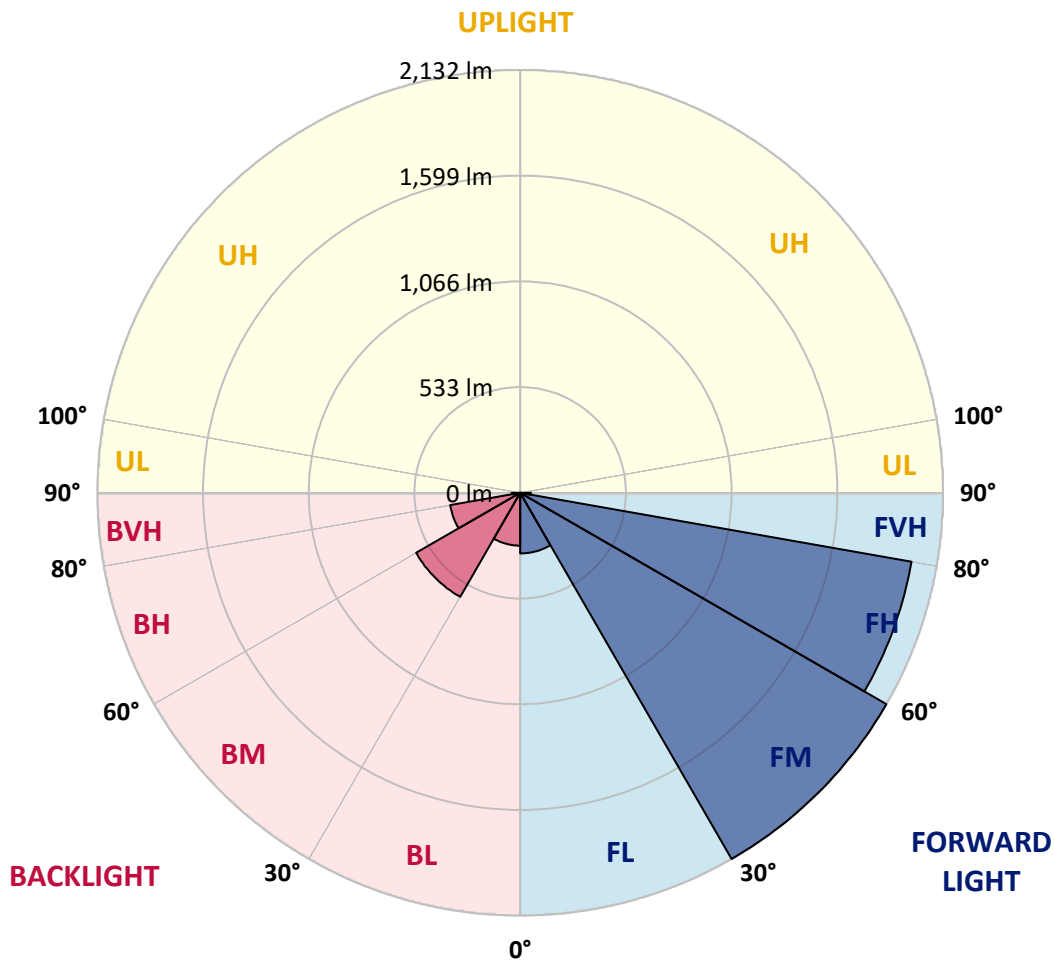
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.4	5.3			
FM	(30°-60°)	2131.6	37.0			
FH	(60°-80°)	2003.2	34.7			G2/5000
FVH	(80°-90°)	53.7	0.9			G1/100
BL	(0°-30°)	266.5	4.6	B1/500		
BM	(30°-60°)	605.6	10.5	B1/1000		
BH	(60°-80°)	358.5	6.2	B1/500		G1/500
BVH	(80°-90°)	41.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	712.4	712.4	712.4	712.4	712.4	712.4	712.4	712.4	712.4	712.4	712.4
2.5°	708.5	708.5	710.3	710.3	710.3	709.5	707.2	708.0	706.5	705.4	703.6
5°	694.0	694.7	696.9	697.8	698.8	699.2	699.2	698.8	699.2	699.2	698.1
7.5°	674.1	674.7	677.4	678.8	682.3	685.1	686.7	686.7	688.6	690.0	690.3
10°	662.0	662.0	663.4	663.4	666.0	667.4	672.2	671.8	677.1	681.9	684.1
12.5°	660.4	660.4	659.6	657.1	655.7	655.3	660.1	660.9	668.6	677.1	681.0
15°	665.3	665.3	662.9	657.7	652.3	649.7	654.5	656.0	664.4	674.4	680.7
17.5°	680.7	680.3	675.5	665.3	655.7	651.6	653.1	654.5	662.3	673.6	681.5
20°	715.1	715.1	704.7	685.9	669.2	659.6	657.5	658.5	664.0	674.7	684.8
22.5°	775.2	776.3	757.9	726.9	698.4	678.1	669.2	670.3	673.0	683.3	694.4
25°	863.8	860.8	834.6	790.8	746.4	711.7	693.6	694.7	694.7	704.4	715.8
27.5°	957.7	958.3	920.7	873.4	815.1	763.4	734.6	734.3	733.8	743.1	755.2
30°	1063.6	1064.0	1020.4	965.7	898.9	832.8	789.6	789.3	785.9	797.3	813.2
32.5°	1179.5	1179.0	1128.5	1066.8	992.6	917.7	861.7	861.2	858.7	874.2	893.4
35°	1307.9	1307.9	1257.6	1181.7	1101.5	1018.0	953.1	952.8	954.3	975.3	993.3
37.5°	1462.6	1465.9	1405.4	1313.1	1225.6	1136.6	1061.0	1058.7	1047.7	1083.0	1113.0
40°	1624.0	1633.2	1570.3	1462.6	1368.1	1276.2	1192.7	1191.2	1181.7	1219.3	1267.7
42.5°	1798.5	1819.5	1749.8	1639.8	1536.8	1437.5	1353.7	1349.7	1312.8	1371.4	1447.1
45°	2027.5	2041.0	1939.9	1840.3	1743.2	1629.9	1530.2	1508.3	1471.5	1546.7	1644.9
47.5°	2183.2	2176.6	2113.4	2046.6	1984.3	1875.8	1722.5	1694.8	1649.7	1749.4	1857.5
50°	2279.9	2284.7	2249.3	2245.9	2242.6	2166.9	1939.5	1906.4	1854.3	1972.4	2098.6
52.5°	2343.8	2321.9	2328.2	2403.5	2494.8	2458.7	2185.0	2148.0	2094.6	2212.7	2355.3
55°	2317.2	2288.4	2346.4	2494.8	2709.3	2717.4	2454.4	2416.5	2370.6	2468.2	2663.8
57.5°	2207.1	2221.6	2313.1	2519.4	2855.8	2949.1	2764.3	2725.5	2635.4	2734.4	2957.0
60°	2052.4	2081.6	2221.6	2480.4	2958.4	3129.8	3104.3	3078.4	2923.4	2993.5	3264.8
62.5°	1886.4	1915.1	2087.2	2413.6	2912.2	3289.6	3438.0	3422.1	3241.2	3243.1	3460.1
65°	1640.9	1652.7	1828.4	2231.2	2784.1	3434.0	3772.1	3758.0	3545.0	3456.0	3514.7
67.5°	1239.2	1254.0	1398.3	1761.2	2394.3	3355.6	4038.9	4036.8	3727.7	3535.0	3384.9
69°	915.2	933.2	1050.9	1367.4	1979.8	3057.3	4051.4	4081.4	3777.3	3526.9	3165.2
70°	669.6	690.3	799.2	1085.3	1649.0	2728.1	3944.1	4008.2	3758.4	3475.6	2993.8
72.5°	284.7	291.6	345.2	489.8	836.5	1644.9	3230.5	3365.6	3394.3	3114.2	2338.9
75°	178.4	180.5	201.6	251.3	372.1	680.3	2092.1	2276.2	2534.3	2416.1	1565.9
77.5°	134.3	136.3	148.4	173.2	231.1	254.0	970.4	1157.2	1451.5	1421.3	779.3
80°	102.9	104.2	112.2	125.9	162.9	159.1	314.9	395.8	605.7	534.5	275.8
82.5°	80.8	81.1	88.3	90.8	113.6	107.1	158.0	176.1	244.8	203.3	134.7
85°	71.7	72.8	79.7	66.5	72.8	64.6	86.7	94.1	130.0	122.6	50.9
87.5°	36.6	38.4	66.8	56.9	36.6	30.6	38.0	41.0	52.8	57.2	24.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271268

CATALOG NUMBER: XNV-AF-01-LED-U-T3-7027-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	712.4	712.4	712.4	712.4	712.4	712.4	712.4	712.4	712.4	712.4	712.4
2.5°	704.0	704.4	705.4	707.2	710.3	714.0	718.4	722.7	725.4	727.3	726.5
5°	698.1	698.4	700.7	704.0	707.7	713.3	720.6	726.1	730.2	732.7	732.4
7.5°	690.6	691.9	696.2	699.9	705.1	709.5	715.4	720.6	724.7	727.3	726.9
10°	685.1	686.2	691.9	696.5	701.0	701.8	700.7	699.2	698.8	700.7	699.9
12.5°	682.5	684.8	690.0	693.3	691.4	684.4	676.3	673.0	671.8	675.5	676.0
15°	683.3	685.1	689.5	687.4	677.4	665.6	661.2	663.8	666.0	668.2	668.6
17.5°	685.1	686.2	687.4	679.3	665.3	657.5	656.0	653.3	646.8	643.0	642.6
20°	688.6	690.0	688.1	675.2	662.6	652.3	634.7	618.8	603.7	595.4	592.2
22.5°	699.9	701.0	695.5	682.9	663.8	630.2	594.4	567.0	543.7	531.2	526.3
25°	722.4	724.3	716.6	700.7	650.5	591.8	541.1	504.3	475.2	459.9	455.9
27.5°	761.9	763.7	755.2	714.0	619.4	540.4	479.2	442.7	417.5	404.5	402.7
30°	821.1	823.6	815.8	713.6	572.2	475.2	418.6	397.2	382.8	374.0	373.5
32.5°	902.9	912.6	880.8	701.0	513.9	409.0	372.8	365.5	358.5	352.6	352.6
35°	1007.1	1029.5	945.0	674.7	449.6	364.1	347.4	340.4	331.6	325.2	324.5
37.5°	1131.4	1166.4	990.8	628.4	394.3	342.3	331.8	320.4	306.4	294.3	291.3
40°	1302.5	1310.4	1013.4	552.6	352.9	330.3	317.6	303.1	285.3	271.6	270.2
42.5°	1474.1	1447.4	1008.8	471.4	329.3	319.6	302.6	286.7	271.0	259.5	259.5
45°	1669.3	1567.1	975.3	389.9	307.8	307.5	289.1	274.0	261.8	253.2	251.3
47.5°	1856.1	1674.5	917.3	329.7	285.8	295.4	280.2	268.1	256.9	248.8	247.4
50°	2082.8	1798.9	855.6	287.5	264.3	284.7	276.5	270.2	259.5	245.4	244.0
52.5°	2307.9	1944.3	808.0	255.8	245.4	276.0	278.7	279.5	269.5	242.2	240.3
55°	2549.7	2099.8	757.9	231.1	230.0	272.0	283.9	283.1	278.4	242.9	239.9
57.5°	2779.7	2256.0	682.9	213.7	217.7	268.1	285.0	273.2	264.7	246.6	241.9
60°	2970.2	2385.1	572.8	201.6	207.5	259.9	277.5	259.9	245.4	245.9	241.5
62.5°	3063.0	2421.3	438.3	187.6	199.0	246.6	266.8	249.9	236.7	247.4	244.8
65°	2992.3	2318.3	312.3	174.6	188.6	231.1	260.6	241.5	232.2	254.7	251.7
67.5°	2739.1	2037.7	226.6	163.1	178.7	215.2	248.8	233.6	227.8	260.2	253.6
69°	2470.0	1759.4	196.4	156.6	171.7	206.7	241.0	229.5	224.4	252.6	242.9
70°	2246.3	1544.9	181.3	152.4	165.7	201.8	235.1	227.0	221.2	243.4	231.9
72.5°	1610.7	998.6	152.4	140.2	150.2	191.2	222.2	217.4	208.5	219.6	212.3
75°	973.1	521.2	129.5	127.6	133.9	176.4	207.1	201.2	192.3	193.4	189.7
77.5°	447.0	240.7	108.5	112.9	117.0	158.0	188.6	181.9	173.9	170.9	171.2
80°	196.0	140.7	90.8	96.4	98.5	142.1	168.7	161.3	152.4	168.3	156.1
82.5°	105.9	81.6	70.8	74.6	80.8	123.6	146.6	136.9	128.5	149.5	120.7
85°	42.8	41.7	48.0	51.7	56.1	88.9	122.6	112.6	102.2	91.5	89.3
87.5°	18.4	19.9	23.6	25.2	30.0	55.3	82.4	72.0	72.4	62.1	60.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)