

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: P198774

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198774  
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  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6188.9 lumens  
Efficiency: N/A  
Efficacy: 106.7 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): 58  
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

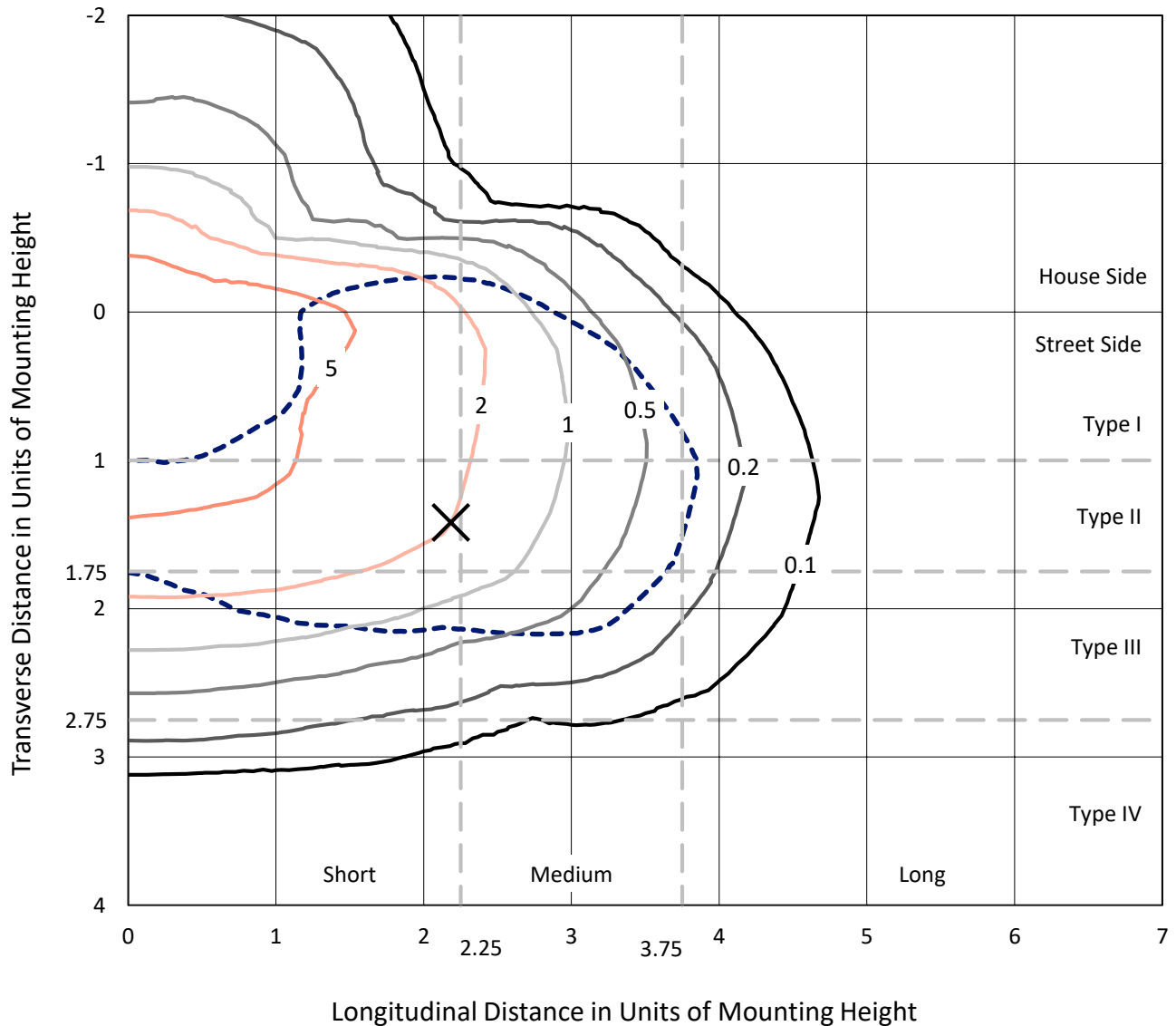


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

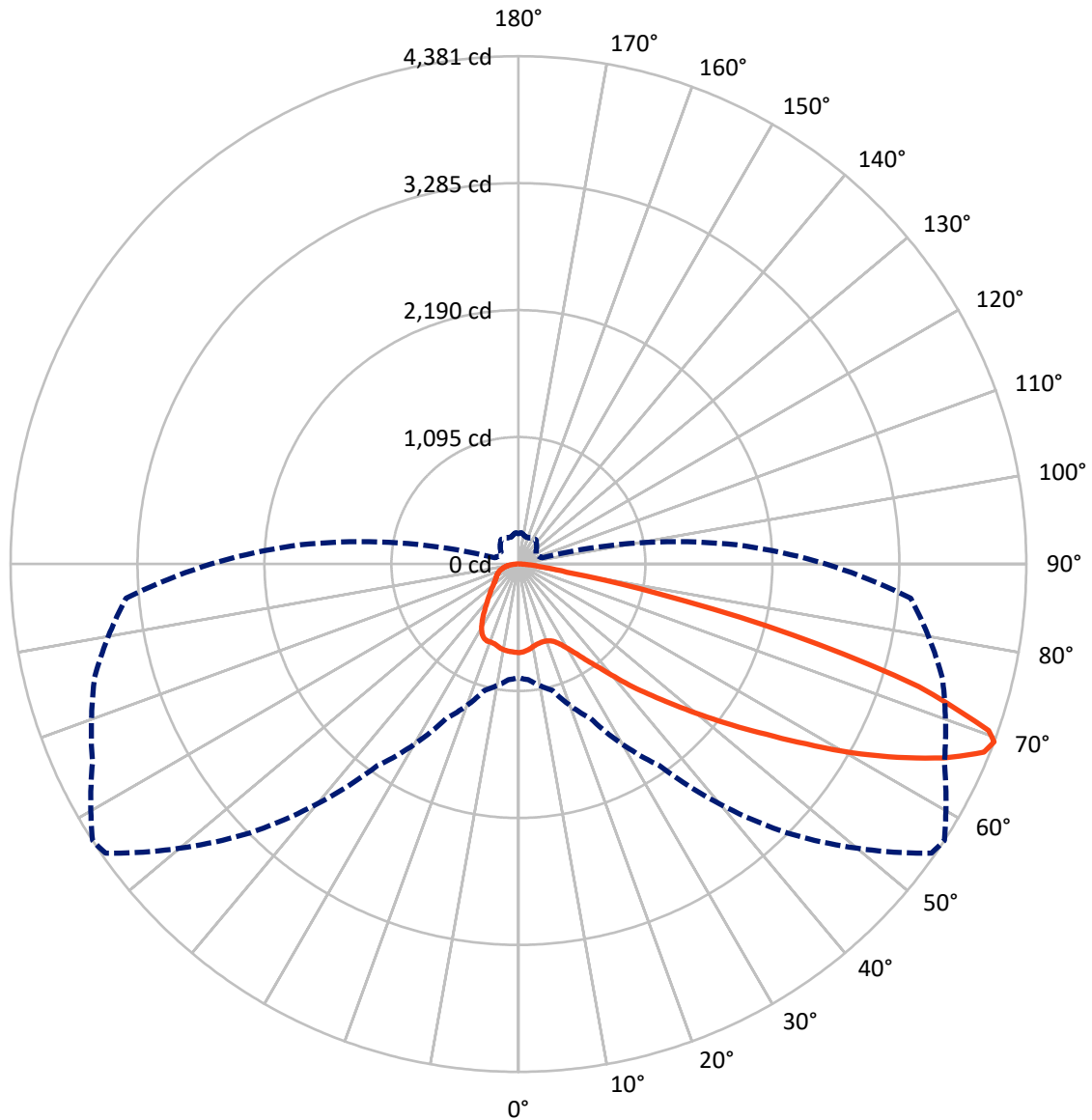


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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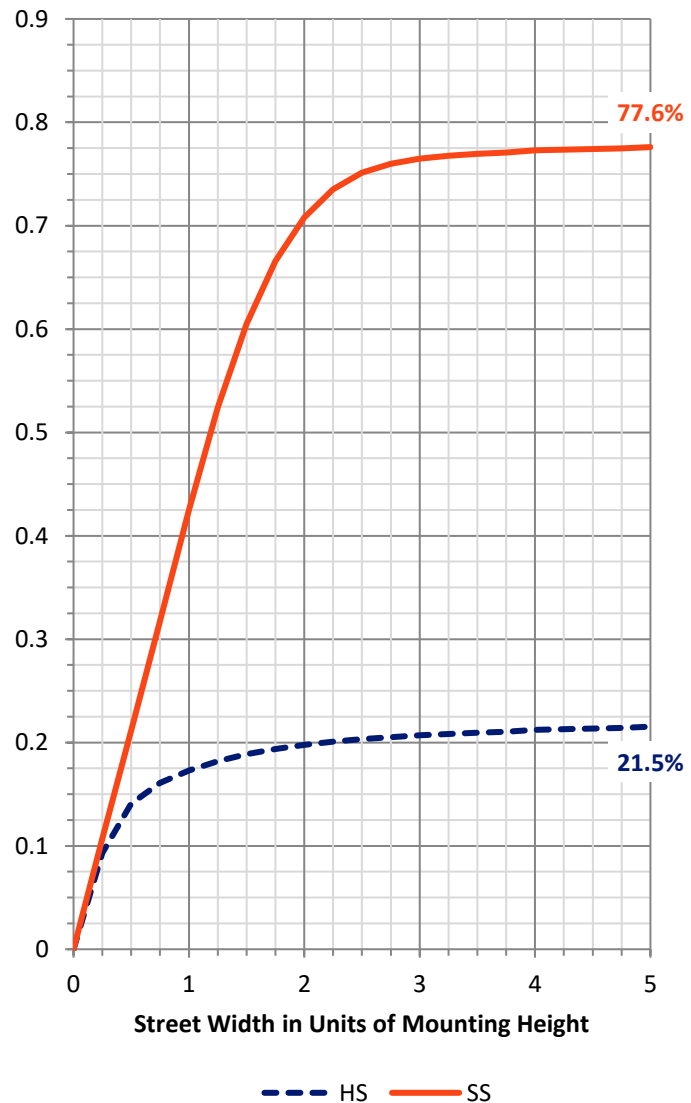
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1365.7	0.0	1365.7
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	4823.2	0.0	4823.2
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	6188.9	0.0	6188.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	1.2
10°-20°	203.5	3.3
20°-30°	338.6	5.5
30°-40°	552.9	8.9
40°-50°	933.2	15.1
50°-60°	1451.7	23.5
60°-70°	1729.2	27.9
70°-80°	805.6	13.0
80°-90°	102.5	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°	6188.9	100.0
0°-180°	6188.9	100.0

**Coefficient of Utilization**



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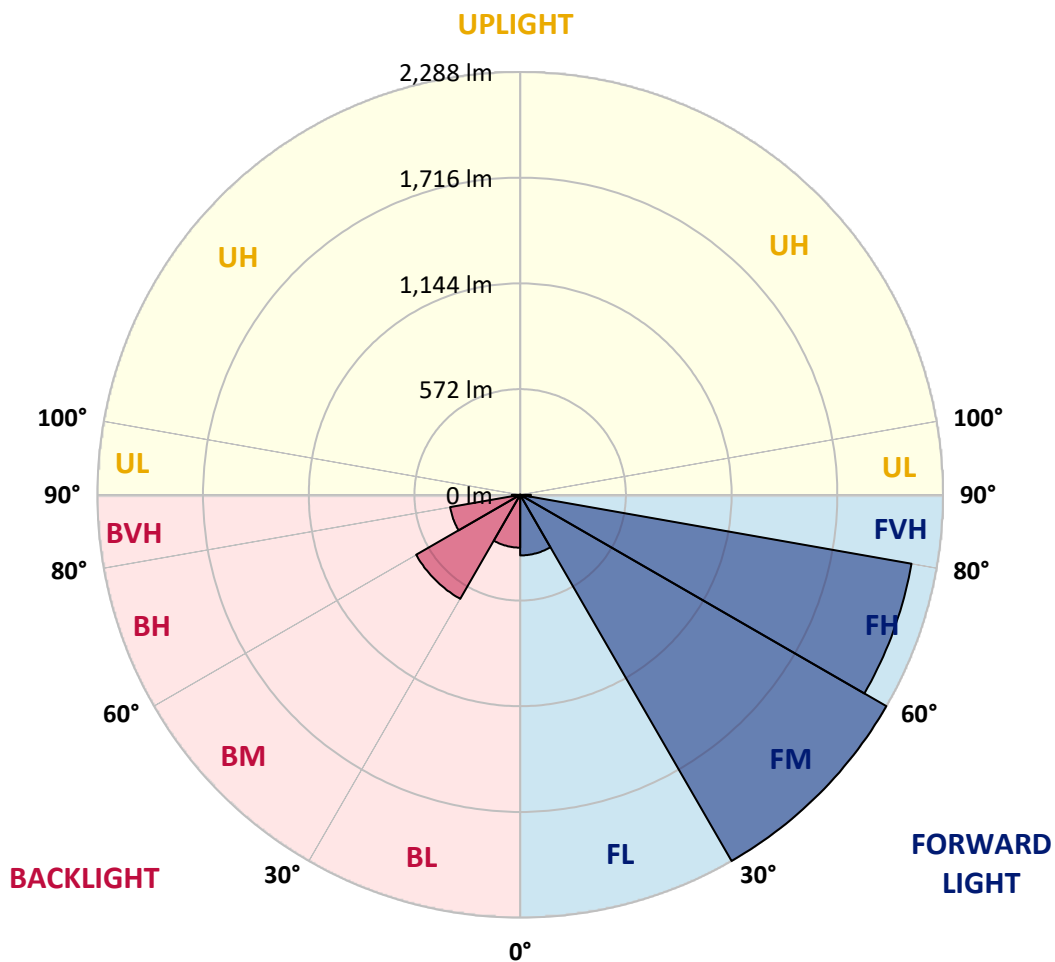
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.7	5.3			
FM	(30°-60°)	2287.8	37.0			
FH	(60°-80°)	2150.0	34.7			G2/5000
FVH	(80°-90°)	57.6	0.9			G1/100
BL	(0°-30°)	286.0	4.6	B1/500		
BM	(30°-60°)	650.0	10.5	B1/1000		
BH	(60°-80°)	384.8	6.2	B1/500		G1/500
BVH	(80°-90°)	44.9	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°	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7
2.5°	760.4	760.4	762.3	762.3	762.3	761.5	759.1	760.0	758.3	757.2	755.1
5°	744.9	745.6	748.1	748.8	750.0	750.4	750.4	750.0	750.4	750.4	749.2
7.5°	723.5	724.2	727.0	728.6	732.2	735.4	736.9	736.9	739.0	740.5	740.9
10°	710.4	710.4	712.0	712.0	714.7	716.4	721.5	721.1	726.7	731.8	734.2
12.5°	708.8	708.8	708.0	705.2	703.7	703.3	708.4	709.2	717.5	726.7	731.0
15°	714.0	714.0	711.6	706.0	700.1	697.3	702.5	704.1	713.2	723.8	730.6
17.5°	730.6	730.2	725.1	714.0	703.7	699.3	700.9	702.5	710.8	723.1	731.4
20°	767.4	767.4	756.4	736.1	718.3	708.0	705.6	706.9	712.8	724.2	735.0
22.5°	832.1	833.2	813.5	780.1	749.6	727.8	718.3	719.5	722.3	733.4	745.3
25°	927.1	923.9	895.8	848.6	801.2	763.9	744.5	745.6	745.6	756.0	768.2
27.5°	1027.8	1028.6	988.2	937.4	874.8	819.4	788.5	788.1	787.7	797.6	810.7
30°	1141.5	1141.9	1095.2	1036.5	964.7	893.9	847.5	847.1	843.5	855.8	872.9
32.5°	1265.9	1265.5	1211.3	1145.1	1065.4	985.0	924.7	924.3	921.6	938.3	958.8
35°	1403.8	1403.8	1349.9	1268.3	1182.3	1092.7	1023.1	1022.6	1024.2	1046.8	1066.2
37.5°	1569.8	1573.4	1508.3	1409.3	1315.4	1220.0	1138.7	1136.3	1124.4	1162.5	1194.6
40°	1742.9	1752.8	1685.5	1569.8	1468.3	1369.7	1280.1	1278.6	1268.3	1308.7	1360.6
42.5°	1930.3	1952.9	1878.0	1760.0	1649.4	1542.8	1452.9	1448.6	1408.9	1471.9	1553.1
45°	2176.0	2190.6	2082.1	1975.1	1870.9	1749.2	1642.3	1618.9	1579.3	1660.1	1765.5
47.5°	2343.2	2336.1	2268.3	2196.6	2129.7	2013.2	1848.8	1819.0	1770.7	1877.6	1993.7
50°	2447.0	2452.2	2414.2	2410.6	2407.0	2325.8	2081.7	2046.0	1990.2	2117.0	2252.4
52.5°	2515.5	2492.2	2499.0	2579.8	2677.6	2638.8	2345.2	2305.5	2248.1	2374.9	2527.8
55°	2487.0	2456.1	2518.3	2677.6	2907.8	2916.5	2634.4	2593.6	2544.5	2649.1	2859.0
57.5°	2368.9	2384.4	2482.7	2704.2	3065.1	3165.3	2966.9	2925.2	2828.6	2934.7	3173.7
60°	2202.9	2234.2	2384.4	2662.1	3175.2	3359.1	3331.8	3304.0	3137.6	3212.9	3504.1
62.5°	2024.6	2055.5	2240.2	2590.4	3125.7	3530.6	3690.0	3672.9	3478.7	3480.7	3713.7
65°	1761.2	1773.9	1962.4	2394.7	2988.2	3685.6	4048.5	4033.5	3804.9	3709.3	3772.3
67.5°	1330.0	1345.9	1500.9	1890.3	2569.9	3601.6	4335.0	4332.6	4001.0	3794.1	3632.9
69°	982.2	1001.7	1128.0	1467.6	2124.9	3281.4	4348.5	4380.6	4054.1	3785.4	3397.1
70°	718.7	740.9	857.8	1164.8	1769.9	2928.0	4233.2	4302.1	4033.9	3730.4	3213.3
72.5°	305.5	313.0	370.4	525.8	897.8	1765.5	3467.3	3612.2	3643.1	3342.5	2510.4
75°	191.4	193.7	216.4	269.9	399.4	730.2	2245.4	2443.0	2720.0	2593.2	1680.7
77.5°	144.2	146.2	159.3	185.9	248.1	272.6	1041.7	1242.2	1558.0	1525.4	836.4
80°	110.6	111.7	120.4	135.1	174.7	170.7	338.0	424.7	650.2	573.7	295.9
82.5°	86.7	87.2	94.7	97.5	122.0	114.9	169.6	189.0	262.7	218.3	144.6
85°	76.8	78.1	85.6	71.3	78.1	69.4	93.1	101.1	139.4	131.6	54.7
87.5°	39.2	41.2	71.7	61.0	39.2	32.8	40.8	44.0	56.7	61.4	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7
2.5°	755.6	756.0	757.2	759.1	762.3	766.3	771.0	775.8	778.6	780.5	779.8
5°	749.2	749.6	752.0	755.6	759.5	765.5	773.5	779.4	783.7	786.4	786.1
7.5°	741.3	742.5	747.3	751.3	756.8	761.5	767.8	773.5	777.7	780.5	780.1
10°	735.4	736.5	742.5	747.7	752.4	753.2	752.0	750.4	750.0	752.0	751.3
12.5°	732.6	735.0	740.5	744.1	742.2	734.6	725.9	722.3	721.1	725.1	725.5
15°	733.4	735.4	740.1	737.8	727.0	714.3	709.6	712.4	714.7	717.2	717.5
17.5°	735.4	736.5	737.8	729.1	714.0	705.6	704.1	701.3	694.2	690.2	689.8
20°	739.0	740.5	738.6	724.7	711.2	700.1	681.1	664.1	647.8	639.1	635.6
22.5°	751.3	752.4	746.4	733.0	712.4	676.4	637.9	608.6	583.6	570.2	565.0
25°	775.4	777.3	769.1	752.0	698.2	635.2	580.8	541.2	509.9	493.7	489.3
27.5°	817.7	819.8	810.7	766.3	664.8	580.0	514.2	475.1	448.2	434.2	432.3
30°	881.2	883.9	875.6	765.9	614.2	509.9	449.3	426.4	410.9	401.4	401.0
32.5°	969.1	979.5	945.4	752.4	551.6	439.1	400.2	392.3	384.7	378.4	378.4
35°	1080.8	1105.0	1014.4	724.2	482.6	390.7	372.9	365.3	355.8	349.0	348.3
37.5°	1214.3	1252.0	1063.5	674.3	423.2	367.2	356.2	343.9	328.9	315.8	312.6
40°	1397.9	1406.6	1087.6	593.1	378.8	354.7	340.7	325.3	306.3	291.6	290.0
42.5°	1582.1	1553.6	1082.9	506.0	353.4	343.1	324.9	307.9	290.8	278.5	278.5
45°	1791.7	1681.9	1046.8	418.4	330.4	330.0	310.3	294.0	280.9	271.8	269.9
47.5°	1992.2	1797.2	984.6	353.8	306.7	317.0	300.7	287.7	275.8	267.1	265.5
50°	2235.5	1930.7	918.4	308.6	283.7	305.5	296.8	290.0	278.5	263.5	261.9
52.5°	2477.2	2086.8	867.4	274.6	263.5	296.3	299.1	299.9	289.2	259.9	257.9
55°	2736.7	2253.7	813.5	248.1	246.8	292.1	304.7	303.9	298.7	260.8	257.6
57.5°	2983.5	2421.2	733.0	229.4	233.7	287.7	305.9	293.2	284.1	264.6	259.5
60°	3187.9	2559.9	614.9	216.4	222.7	279.0	298.0	279.0	263.5	263.9	259.1
62.5°	3287.4	2598.8	470.4	201.3	213.6	264.6	286.4	268.2	254.0	265.5	262.7
65°	3211.8	2488.2	335.2	187.4	202.4	248.1	279.8	259.1	249.2	273.4	270.3
67.5°	2939.9	2187.1	243.3	175.1	191.8	231.0	267.1	250.8	244.5	279.4	272.2
69°	2651.1	1888.4	210.8	168.0	184.2	221.9	258.7	246.4	240.9	271.0	260.8
70°	2411.0	1658.2	194.6	163.7	177.9	216.8	252.4	243.7	237.3	261.1	248.8
72.5°	1728.7	1071.7	163.7	150.6	161.2	205.2	238.6	233.3	223.8	235.8	227.8
75°	1044.4	559.5	139.1	137.1	143.8	189.3	222.3	215.9	206.4	207.7	203.7
77.5°	479.9	258.3	116.5	121.2	125.6	169.6	202.4	195.4	186.6	183.4	183.8
80°	210.4	151.0	97.5	103.4	105.8	152.5	181.1	173.2	163.7	180.7	167.6
82.5°	113.8	87.6	76.1	80.0	86.7	132.8	157.3	147.0	137.9	160.5	129.6
85°	45.9	44.8	51.6	55.4	60.3	95.4	131.6	120.8	109.8	98.3	95.9
87.5°	19.8	21.4	25.4	26.9	32.1	59.4	88.4	77.2	77.6	66.6	65.4
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)