

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: P198640

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)  
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-T4W-7030-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5804 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

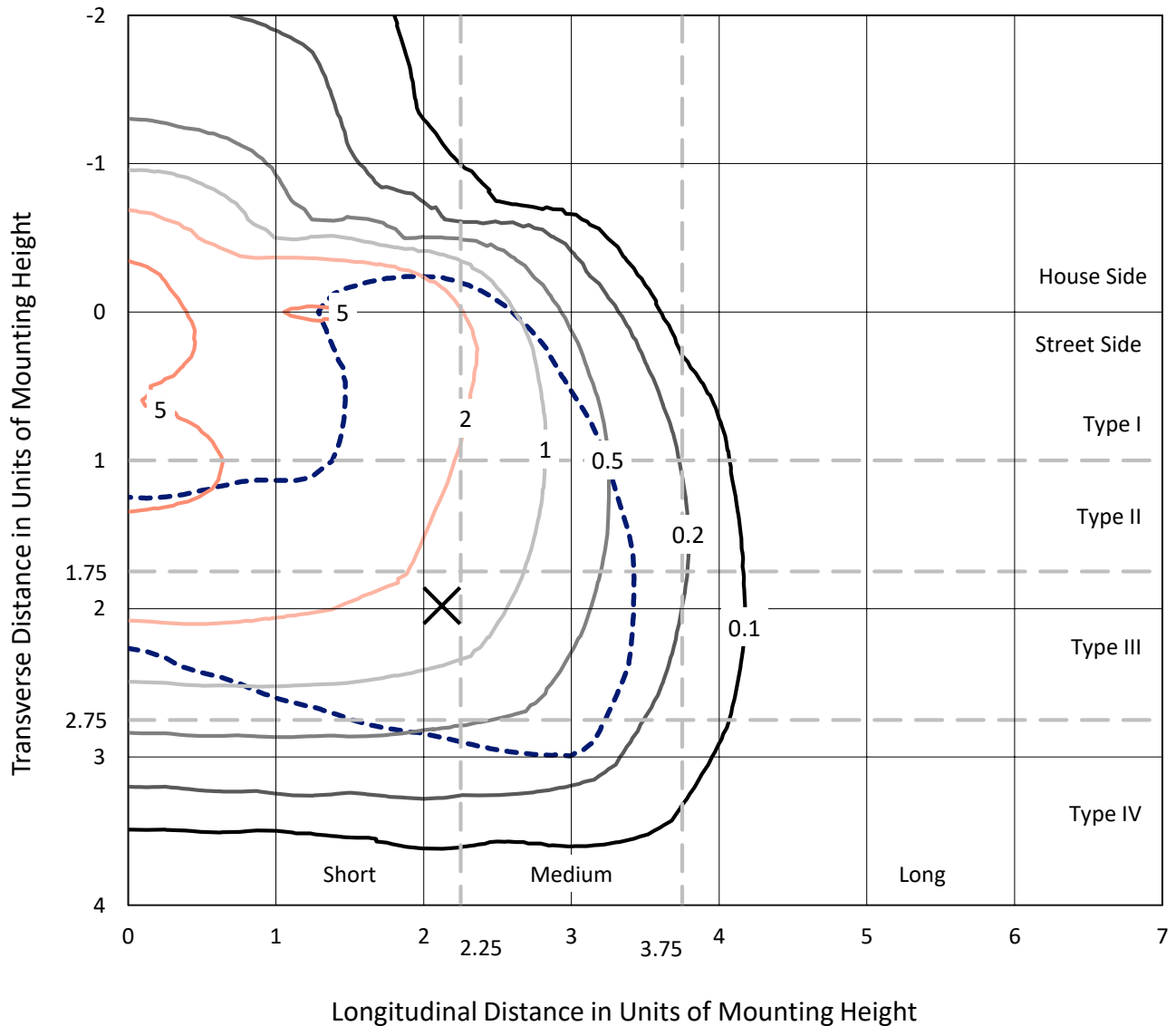
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

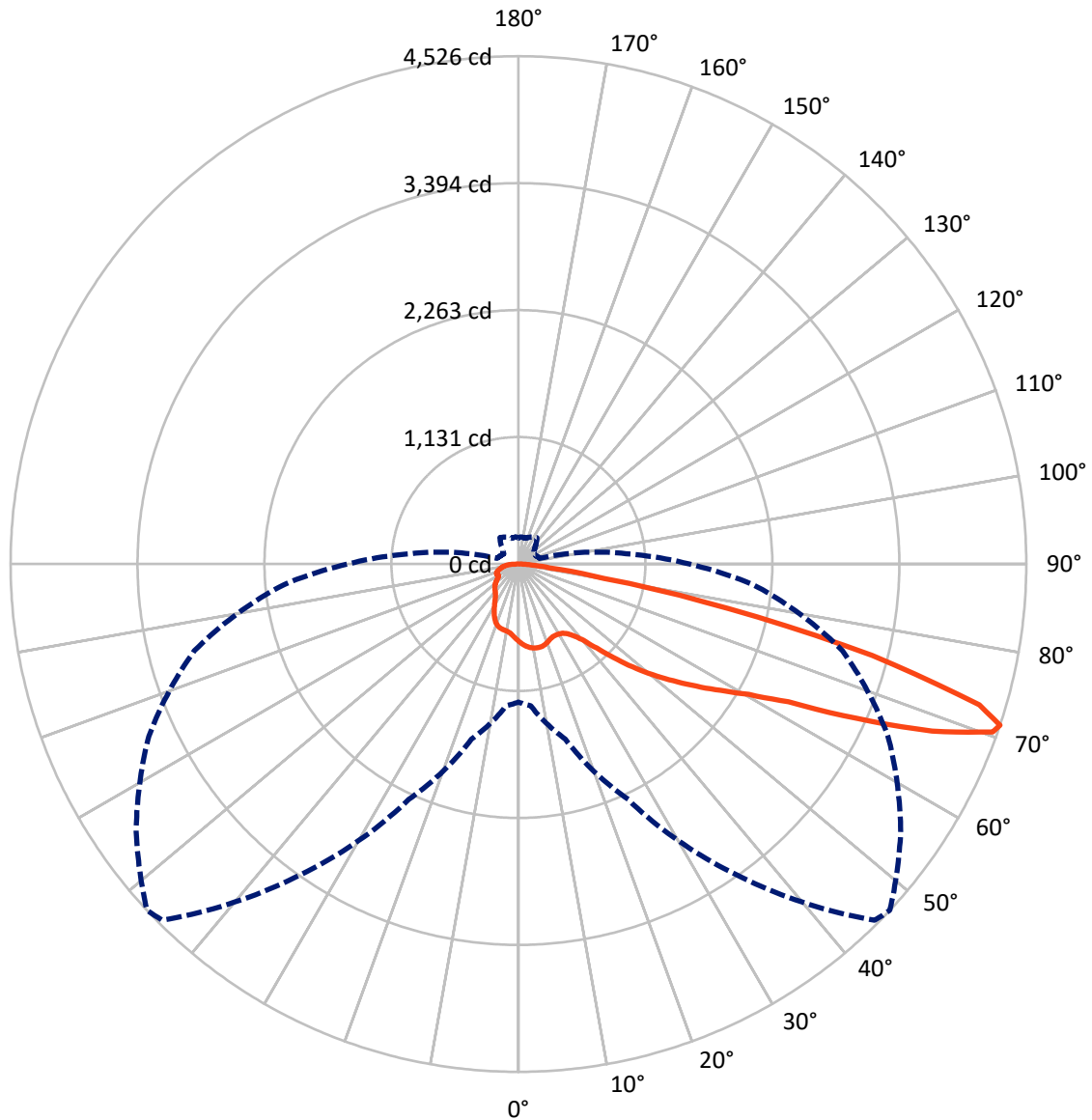
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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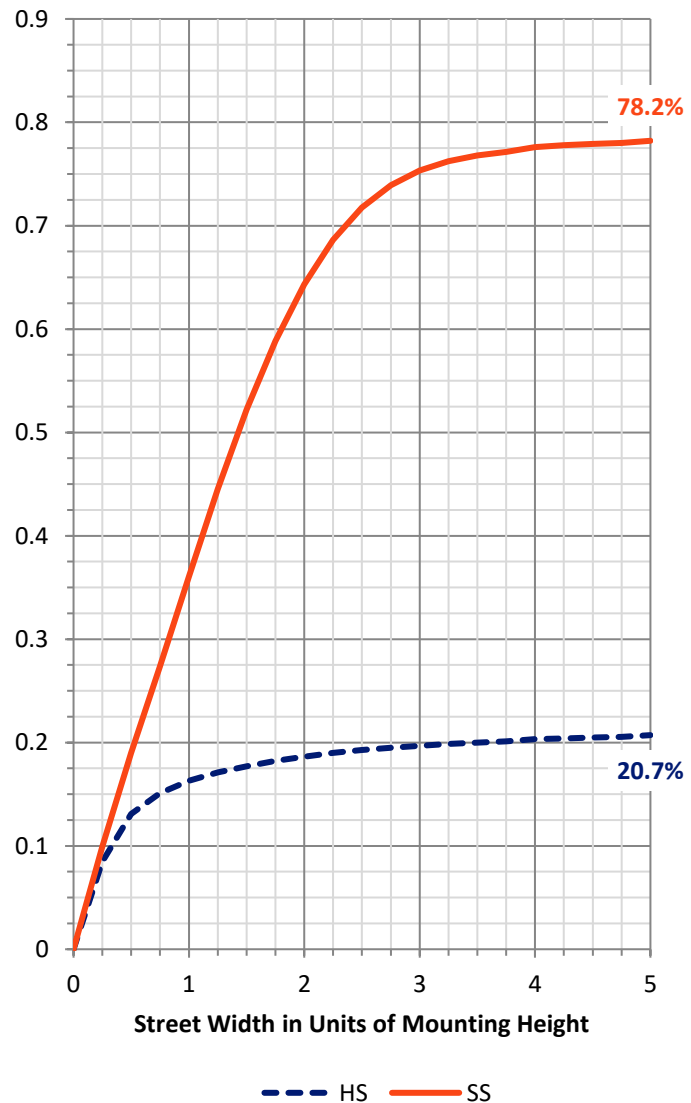
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1243.9	0.0	1243.9
	% Fixture	21.4	0.0	21.4
<b>Street Side</b>	Lumens	4560.1	0.0	4560.1
	% Fixture	78.6	0.0	78.6
<b>Total</b>	Lumens	5804.0	0.0	5804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	1.1
10°-20°	192.8	3.3
20°-30°	286.5	4.9
30°-40°	411.3	7.1
40°-50°	729.3	12.6
50°-60°	1248.0	21.5
60°-70°	1771.7	30.5
70°-80°	970.3	16.7
80°-90°	128.1	2.2
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°	5804.0	100.0
0°-180°	5804.0	100.0

**Coefficient of Utilization**



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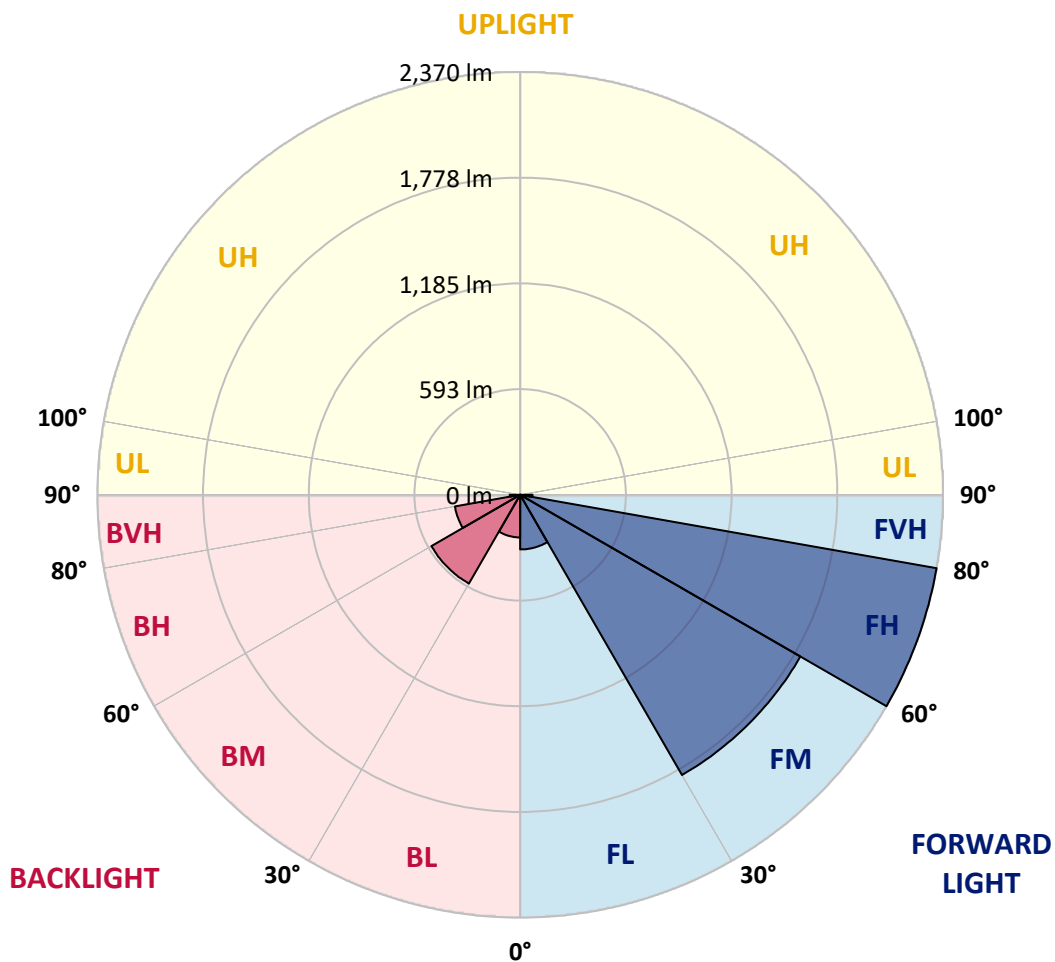
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.3	5.3			
FM	(30°-60°)	1813.9	31.3			
FH	(60°-80°)	2370.4	40.8			G2/5000
FVH	(80°-90°)	69.5	1.2			G1/100
BL	(0°-30°)	238.9	4.1	B1/500		
BM	(30°-60°)	574.7	9.9	B1/1000		
BH	(60°-80°)	371.7	6.4	B1/500		G1/500
BVH	(80°-90°)	58.6	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	732.3	730.8	731.6	728.9	722.5	715.8	715.8	708.6	701.1	693.6	685.3
5°	777.8	775.6	773.7	765.4	753.0	739.1	736.8	722.5	707.1	691.7	676.7
7.5°	815.8	813.6	807.9	792.9	774.8	754.1	751.5	732.7	712.4	690.9	669.9
10°	842.9	841.4	830.5	811.3	790.2	765.8	761.3	742.1	718.0	691.3	664.6
12.5°	857.9	855.7	842.5	820.0	795.1	770.3	765.8	747.4	719.9	690.6	659.4
15°	851.9	850.8	838.4	815.4	790.6	769.2	765.4	746.6	718.8	687.9	654.5
17.5°	826.4	829.0	819.2	796.6	776.3	761.3	757.1	739.5	713.1	681.5	646.9
20°	791.0	794.0	789.1	766.2	754.5	744.7	742.5	728.2	703.7	672.1	637.9
22.5°	753.4	756.0	756.4	735.0	731.2	727.4	725.5	715.4	695.5	666.5	631.9
25°	727.4	730.4	731.2	712.4	714.6	715.8	715.4	708.2	694.0	666.5	632.6
27.5°	720.7	722.2	721.4	704.1	708.2	714.6	715.0	713.5	700.0	674.0	643.2
30°	744.0	744.7	735.3	709.4	713.5	721.8	722.2	721.4	712.8	693.6	666.9
32.5°	844.8	844.0	811.7	744.7	730.4	733.4	734.6	741.3	742.1	725.9	701.1
35°	998.2	997.9	960.3	845.9	778.6	762.8	764.3	774.8	784.2	773.3	759.0
37.5°	1167.1	1168.3	1145.3	990.3	882.4	816.6	815.1	823.0	839.9	843.7	845.5
40°	1354.4	1360.1	1358.9	1156.2	1028.0	908.3	893.3	884.3	917.0	937.7	964.4
42.5°	1568.4	1566.9	1567.7	1338.3	1194.2	1052.8	1024.9	982.8	1020.8	1056.5	1115.2
45°	1752.4	1758.4	1762.9	1532.0	1380.4	1217.9	1189.7	1113.0	1147.2	1200.6	1290.1
47.5°	1937.4	1926.9	1935.2	1747.5	1587.6	1406.3	1369.9	1266.4	1298.4	1373.6	1509.8
50°	2153.0	2148.1	2110.4	2028.8	1838.1	1597.4	1549.6	1426.6	1473.3	1573.7	1781.0
52.5°	2346.3	2320.0	2290.6	2250.0	2084.5	1790.7	1730.2	1593.3	1679.0	1803.5	2117.6
55°	2417.0	2399.3	2434.7	2487.3	2345.2	1987.8	1920.1	1787.7	1911.1	2066.4	2513.7
57.5°	2492.2	2498.2	2578.0	2684.4	2591.9	2198.1	2124.7	2017.9	2165.7	2360.6	2956.4
60°	2529.8	2553.9	2713.0	2912.7	2826.6	2428.7	2358.3	2282.3	2448.2	2685.5	3397.9
62.5°	2536.2	2568.6	2793.9	2992.8	3149.7	2781.8	2700.6	2618.2	2801.0	3044.7	3717.6
65°	2418.9	2468.5	2786.7	3091.4	3444.2	3372.0	3320.4	3176.8	3273.4	3361.1	3772.2
67.5°	2074.0	2128.1	2511.0	3050.8	3680.4	3984.3	3974.5	3762.4	3638.3	3483.3	3367.8
70°	1522.2	1565.8	1933.7	2608.1	3577.3	4465.0	4482.3	4141.9	3740.2	3223.8	2504.3
71°	1231.1	1268.7	1615.5	2315.4	3376.5	4489.8	4525.9	4158.8	3634.1	2989.5	2096.5
72.5°	766.2	787.2	1072.7	1747.5	2907.5	4234.1	4295.0	3942.2	3300.1	2526.8	1481.9
75°	289.2	297.5	397.9	770.7	1735.4	3180.9	3254.6	2979.3	2318.4	1442.4	620.2
77.5°	155.3	159.5	197.5	320.5	695.5	1823.5	1918.2	1699.3	1112.2	504.8	253.5
80°	104.2	106.8	136.5	189.9	319.7	694.3	773.3	682.3	416.4	288.1	180.5
82.5°	67.3	68.8	92.9	124.9	206.5	244.1	278.7	291.1	259.9	206.5	109.1
85°	44.4	45.5	61.3	79.7	127.9	120.4	123.4	161.4	177.2	136.2	55.7
87.5°	25.6	26.3	36.9	41.0	57.5	45.1	48.9	76.7	105.3	88.8	32.0
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°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	681.5	678.5	671.8	667.6	665.7	665.0	664.2	665.7	665.7	665.0	663.5
5°	669.1	663.5	652.2	644.3	640.2	639.0	640.5	642.4	643.6	643.6	642.4
7.5°	660.1	651.8	636.8	625.9	619.5	617.6	621.7	628.5	633.0	635.3	635.7
10°	652.6	641.3	624.7	613.5	608.2	607.4	612.7	621.4	630.8	634.9	635.7
12.5°	645.8	633.0	615.0	604.4	600.7	602.6	609.7	617.6	628.5	634.5	634.9
15°	639.4	626.3	607.1	596.2	595.4	598.4	605.2	611.6	619.9	627.4	627.4
17.5°	631.9	617.6	597.7	587.5	587.5	590.1	594.7	598.0	603.3	610.5	610.1
20°	622.9	608.2	587.9	577.4	575.1	573.6	573.6	574.3	578.9	585.3	586.4
22.5°	616.1	601.1	579.6	566.8	556.7	546.9	542.8	541.2	545.4	551.4	552.9
25°	616.1	601.1	577.0	555.5	530.7	511.9	504.0	501.8	505.9	511.5	513.8
27.5°	626.3	611.2	583.0	545.4	499.9	469.8	460.4	458.5	462.3	466.8	469.0
30°	649.9	635.3	600.3	533.7	465.6	426.2	415.6	413.7	415.6	417.5	420.1
32.5°	689.4	677.0	628.5	523.2	431.0	386.7	373.9	370.9	371.6	372.0	374.2
35°	753.8	748.1	666.1	510.8	398.3	354.3	341.1	335.1	334.8	336.6	339.3
37.5°	852.3	855.7	714.6	492.7	371.2	331.4	318.2	312.2	309.2	312.9	315.9
40°	991.5	999.4	770.7	468.3	349.0	317.8	303.9	298.3	294.1	293.0	294.5
42.5°	1172.4	1170.1	827.9	437.1	325.0	308.8	294.1	288.1	281.3	272.7	270.8
45°	1386.8	1354.4	875.6	398.7	297.5	300.1	285.1	276.8	266.3	253.5	252.0
47.5°	1639.9	1550.8	905.0	357.7	271.9	288.9	274.9	262.2	246.7	238.5	237.3
50°	1945.0	1780.6	925.6	315.9	249.0	274.6	260.7	243.7	228.7	226.4	226.1
52.5°	2306.0	2051.8	951.2	278.3	230.9	256.1	246.4	229.1	217.0	218.2	218.2
55°	2690.1	2332.4	952.0	248.6	215.1	234.7	235.8	221.9	212.5	216.3	217.4
57.5°	3040.2	2577.6	877.1	227.6	200.1	217.8	232.4	224.5	217.4	230.6	231.7
60°	3345.6	2766.4	716.1	210.3	187.7	211.4	240.0	240.7	239.2	274.9	277.6
62.5°	3457.4	2768.3	508.5	195.6	180.9	215.1	255.8	256.9	256.9	290.0	294.9
65°	3300.9	2537.7	338.5	186.9	176.4	223.4	268.6	263.7	252.0	274.9	269.7
67.5°	2749.5	1975.4	247.5	181.3	170.0	223.8	279.8	267.4	247.5	267.1	258.0
70°	1889.7	1257.0	207.2	176.0	162.5	214.0	285.9	266.3	240.7	249.0	237.0
71°	1521.1	1003.1	196.7	174.1	159.5	208.4	286.6	264.8	237.3	242.6	231.7
72.5°	1002.0	618.0	183.9	170.0	155.0	198.6	284.7	261.4	232.8	233.2	226.1
75°	395.3	256.1	165.5	160.6	142.2	182.8	276.5	254.3	224.2	216.6	213.6
77.5°	199.7	167.4	145.6	147.4	127.1	166.6	264.8	242.6	212.1	202.0	199.7
80°	145.9	127.1	124.5	127.9	110.2	150.8	250.1	226.8	196.7	207.2	202.7
82.5°	88.8	77.5	97.4	105.7	92.2	134.7	232.8	208.4	177.2	163.2	158.0
85°	42.1	45.5	70.3	77.9	68.1	107.6	212.9	188.1	154.6	133.5	135.8
87.5°	20.7	25.2	40.2	46.6	44.8	79.0	160.6	145.9	121.9	100.4	98.2
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)