

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: P399220

Luminaire Tested: **ARCH-L-PA3-110-750-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-110-750-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18413 lumens
Efficiency: N/A
Efficacy: 162.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

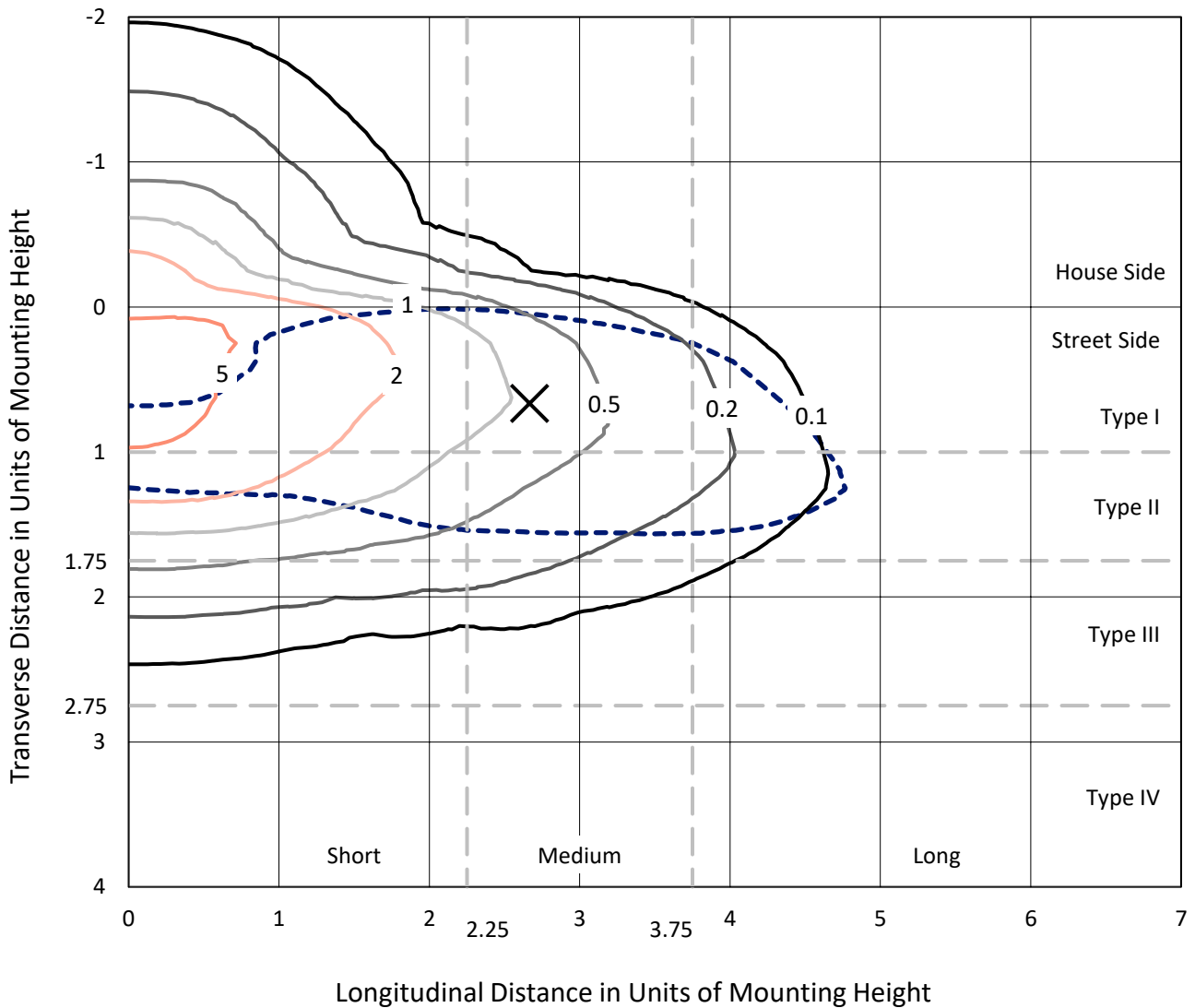
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

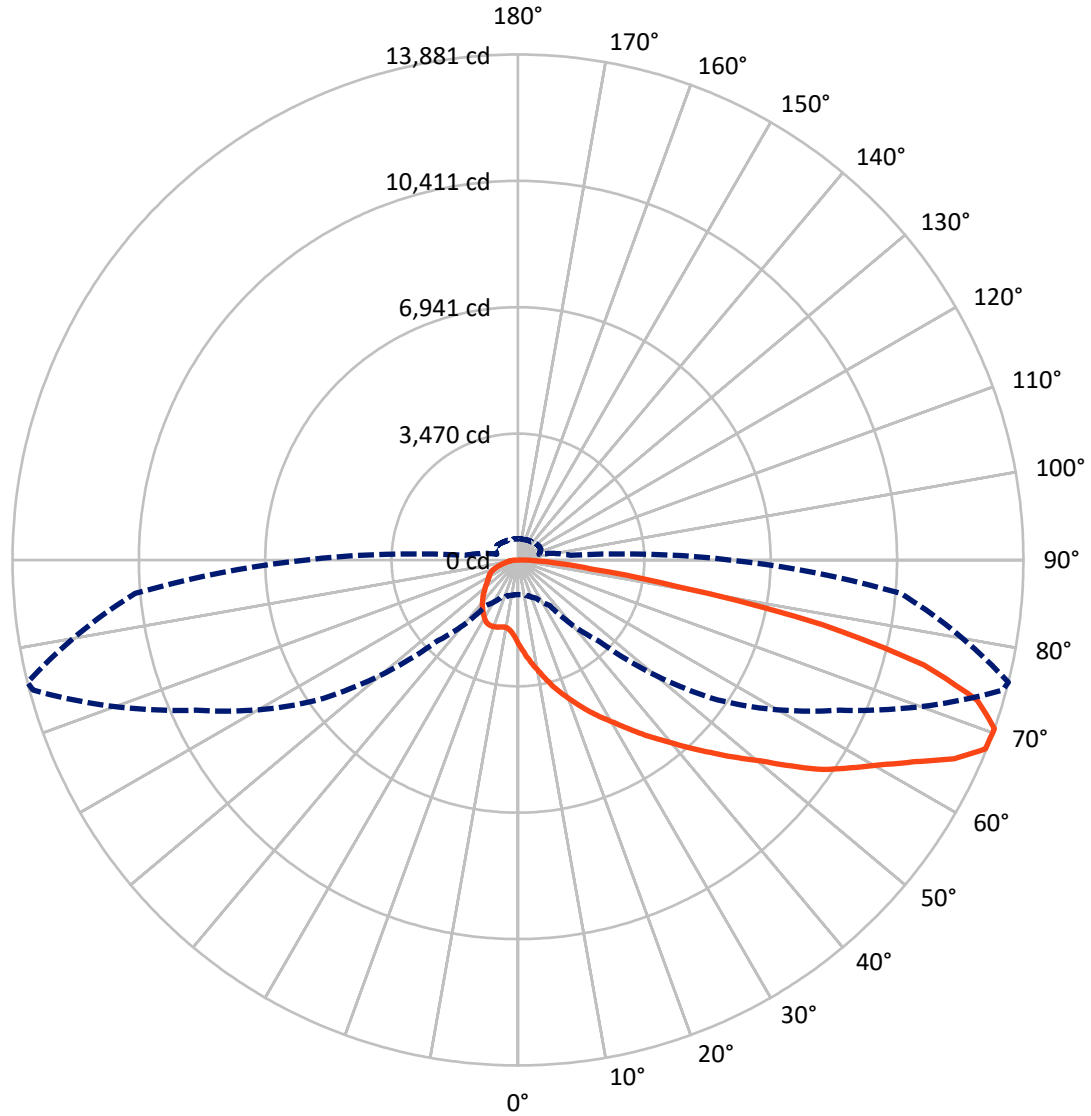
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3006.1	0.0	3006.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	15406.9	0.0	15406.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	18413.0	0.0	18413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.3
10°-20°	813.1	4.4
20°-30°	1454.8	7.9
30°-40°	2353.4	12.8
40°-50°	3404.5	18.5
50°-60°	3896.7	21.2
60°-70°	3584.5	19.5
70°-80°	2216.6	12.0
80°-90°	450.1	2.4
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°	18413.0	100.0
0°-180°	18413.0	100.0

Coefficient of Utilization



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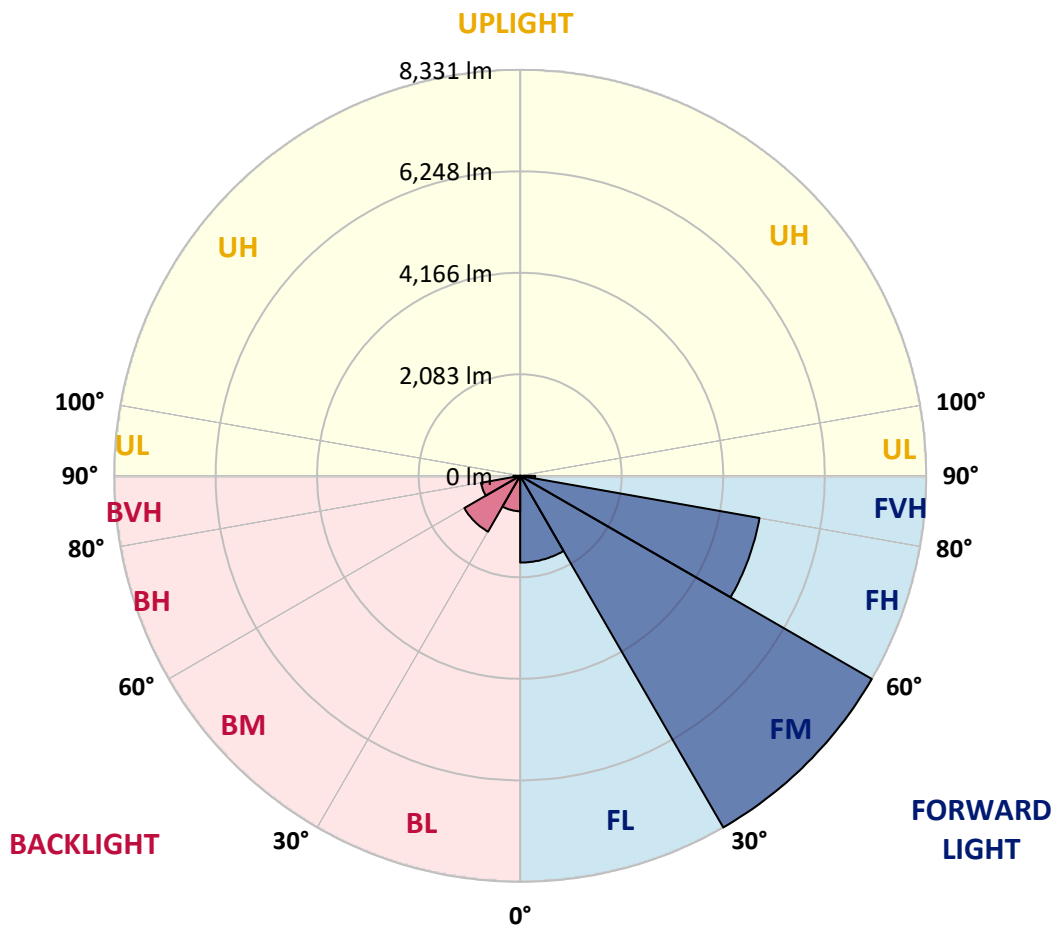
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.1	9.7			
FM (30°-60°)	8331.0	45.2			
FH (60°-80°)	4985.7	27.1			G2/5000
FVH (80°-90°)	309.0	1.7			G3/500
BL (0°-30°)	726.1	3.9	B2/1000		
BM (30°-60°)	1323.6	7.2	B2/2500		
BH (60°-80°)	815.4	4.4	B2/1000		G2/1000
BVH (80°-90°)	141.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6
2.5°	2934.6	2912.8	2910.4	2876.5	2845.0	2760.2	2699.7	2593.2	2486.6	2484.2	2377.7
5°	3392.2	3370.4	3358.3	3317.1	3263.9	3152.5	3043.5	2878.9	2697.3	2685.2	2484.2
7.5°	3702.1	3682.7	3658.5	3641.6	3590.7	3491.5	3358.3	3162.2	2912.8	2888.6	2607.7
10°	3910.3	3898.2	3893.4	3881.3	3849.8	3769.9	3641.6	3433.4	3128.3	3101.6	2738.5
12.5°	3999.9	3995.1	4016.9	4050.8	4062.9	4031.4	3907.9	3711.8	3365.6	3336.5	2895.8
15°	3895.8	3900.7	3956.3	4072.6	4196.1	4263.9	4191.2	3999.9	3634.3	3593.2	3079.9
17.5°	3847.4	3854.7	3893.4	4004.8	4179.1	4389.8	4423.7	4273.5	3893.4	3835.3	3273.6
20°	3932.1	3941.8	3970.9	4058.0	4179.1	4404.3	4581.0	4535.0	4147.6	4087.1	3460.0
22.5°	4147.6	4159.7	4157.3	4213.0	4295.3	4450.3	4668.2	4782.0	4414.0	4346.2	3653.7
25°	4607.7	4598.0	4515.7	4489.0	4510.8	4610.1	4784.4	5019.3	4692.4	4624.6	3857.1
27.5°	5232.4	5220.3	5070.1	4934.5	4813.5	4857.1	4949.1	5210.6	4975.7	4898.2	4050.8
30°	5900.6	5886.1	5711.8	5491.4	5222.7	5159.7	5147.6	5377.6	5261.4	5179.1	4256.6
32.5°	6551.9	6539.8	6353.4	6096.7	5726.3	5537.4	5421.2	5564.1	5585.9	5506.0	4481.8
35°	7145.2	7145.2	6985.4	6680.3	6261.4	5975.7	5784.4	5794.1	5958.7	5866.7	4738.4
37.5°	7673.0	7670.6	7496.2	7196.0	6794.1	6467.2	6229.9	6072.5	6314.7	6234.8	5007.2
40°	8091.9	8074.9	7946.6	7685.1	7280.7	6956.3	6716.6	6399.4	6711.8	6639.1	5292.9
42.5°	8397.0	8387.3	8300.1	8072.5	7687.5	7382.4	7217.8	6811.0	7162.1	7089.5	5627.0
45°	8515.6	8535.0	8535.0	8319.5	8014.4	7735.9	7663.3	7263.8	7648.8	7576.1	5985.4
47.5°	8324.3	8375.2	8479.3	8493.8	8225.0	8036.2	8060.4	7719.0	8150.0	8111.2	6377.6
50°	7726.3	7820.7	8048.3	8459.9	8309.8	8266.2	8399.4	8183.9	8687.5	8675.4	6854.6
52.5°	6183.9	6413.9	7123.4	7861.9	8251.7	8372.7	8735.9	8706.9	9380.0	9399.4	7476.9
55°	4743.3	4830.4	5651.2	6907.9	7895.8	8338.8	8961.1	9217.8	10130.6	10154.8	8048.3
57.5°	3835.3	3893.4	4341.3	5651.2	7084.6	8154.8	9137.9	9515.6	10706.8	10769.8	8556.8
60°	3038.7	3123.4	3423.7	4324.4	5949.1	7711.7	9261.3	9847.3	11326.7	11421.1	9164.5
62.5°	2259.0	2300.2	2583.5	3203.3	4709.4	6915.1	9196.0	10208.1	12087.0	12200.8	9895.7
65°	1607.7	1644.0	1845.0	2278.4	3481.8	5837.7	8815.8	10476.8	13040.9	13157.2	10631.8
67.5°	1203.4	1217.9	1331.7	1593.2	2346.2	4535.0	8045.9	10430.8	13738.3	13842.4	10927.2
70°	951.6	956.4	1012.1	1152.5	1525.4	3157.3	6697.2	9755.3	13789.1	13881.1	10554.3
72.5°	789.3	786.9	818.4	886.2	1062.9	1997.5	4961.2	8501.1	13135.4	13198.3	9513.2
75°	651.3	656.2	678.0	716.7	811.1	1317.2	3215.4	6782.0	11588.2	11520.4	7982.9
77.5°	547.2	544.8	554.5	588.4	656.2	946.7	1883.7	4900.6	8588.2	8554.3	5239.6
80°	440.7	445.5	460.0	489.1	552.0	721.5	1113.8	3058.1	4607.7	4484.2	2503.6
82.5°	295.4	341.4	370.5	404.4	477.0	532.7	707.0	1554.5	2060.5	2029.0	1135.6
85°	140.4	186.4	276.0	314.8	387.4	334.1	479.4	740.9	1031.5	1019.4	409.2
87.5°	29.1	29.1	147.7	176.8	239.7	142.9	266.3	322.0	498.8	467.3	167.1
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°	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6
2.5°	2314.7	2249.4	2118.6	2014.5	1908.0	1847.4	1772.4	1736.0	1728.8	1709.4	1723.9
5°	2355.9	2227.6	1980.6	1818.4	1709.4	1656.1	1629.5	1619.8	1617.4	1612.6	1612.6
7.5°	2411.6	2215.5	1893.4	1728.8	1658.6	1641.6	1648.9	1663.4	1665.8	1670.7	1668.3
10°	2479.4	2217.9	1845.0	1707.0	1673.1	1675.5	1699.7	1719.1	1728.8	1736.0	1733.6
12.5°	2573.8	2246.9	1837.7	1721.5	1707.0	1716.7	1740.9	1760.3	1769.9	1772.4	1772.4
15°	2697.3	2307.5	1854.7	1753.0	1740.9	1748.2	1762.7	1769.9	1772.4	1769.9	1769.9
17.5°	2832.9	2380.1	1878.9	1772.4	1753.0	1745.7	1740.9	1733.6	1719.1	1709.4	1709.4
20°	2963.6	2445.5	1891.0	1769.9	1736.0	1707.0	1677.9	1641.6	1617.4	1598.0	1598.0
22.5°	3094.4	2506.0	1891.0	1743.3	1690.0	1634.4	1573.8	1515.7	1479.4	1455.2	1455.2
25°	3232.4	2564.1	1876.5	1697.3	1617.4	1537.5	1455.2	1382.5	1346.2	1322.0	1317.2
27.5°	3348.6	2598.0	1837.7	1631.9	1527.8	1426.1	1331.7	1256.6	1230.0	1208.2	1208.2
30°	3472.1	2619.8	1765.1	1547.2	1426.1	1309.9	1213.1	1152.5	1123.5	1092.0	1089.6
32.5°	3610.1	2634.3	1682.8	1457.6	1322.0	1198.5	1116.2	1067.8	1004.8	970.9	966.1
35°	3769.9	2653.7	1595.6	1355.9	1217.9	1106.5	1058.1	978.2	917.7	888.6	886.2
37.5°	3939.4	2668.2	1501.2	1266.3	1123.5	1046.0	997.6	903.1	849.9	806.3	801.4
40°	4118.6	2668.2	1404.3	1179.2	1048.4	1019.4	927.3	842.6	753.0	731.2	726.4
42.5°	4317.1	2663.4	1307.5	1094.4	978.2	958.8	886.2	796.6	750.6	731.2	726.4
45°	4527.8	2646.4	1215.5	997.6	905.6	866.8	811.1	786.9	767.5	767.5	767.5
47.5°	4767.5	2631.9	1111.4	910.4	852.3	808.7	767.5	753.0	750.6	757.9	765.1
50°	5075.0	2627.1	1024.2	847.4	811.1	760.3	755.4	743.3	745.8	745.8	745.8
52.5°	5447.8	2583.5	941.9	801.4	770.0	709.4	724.0	736.1	740.9	738.5	736.1
55°	5721.5	2506.0	871.7	770.0	740.9	690.1	709.4	728.8	733.6	726.4	726.4
57.5°	5968.4	2397.1	816.0	745.8	721.5	678.0	699.7	719.1	714.3	711.9	709.4
60°	6251.7	2292.9	772.4	733.6	702.2	673.1	692.5	704.6	697.3	692.5	690.1
62.5°	6559.2	2191.2	740.9	733.6	687.6	670.7	685.2	690.1	675.5	670.7	670.7
65°	6702.1	2031.4	707.0	733.6	680.4	665.8	670.7	665.8	651.3	651.3	648.9
67.5°	6467.2	1767.5	663.4	724.0	690.1	658.6	648.9	641.6	624.7	624.7	619.8
70°	5818.3	1452.8	600.5	692.5	692.5	656.2	619.8	602.9	583.5	590.8	581.1
72.5°	4970.9	1152.5	523.0	639.2	678.0	653.7	588.4	561.7	544.8	552.0	537.5
75°	4026.6	893.4	431.0	554.5	641.6	641.6	556.9	520.6	501.2	501.2	484.3
77.5°	2566.5	661.0	351.1	460.0	576.3	624.7	530.3	474.6	445.5	438.2	426.1
80°	1271.2	464.9	288.1	365.6	491.5	585.9	510.9	421.3	380.1	365.6	343.8
82.5°	675.5	322.0	230.0	285.7	392.2	527.8	486.7	363.2	312.3	290.6	266.3
85°	302.7	198.5	184.0	217.9	297.8	433.4	438.2	297.8	239.7	285.7	210.7
87.5°	111.4	89.6	89.6	111.4	171.9	181.6	309.9	191.3	152.5	104.1	82.3
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)