

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: P399211

Luminaire Tested: **ARCH-L-PA3-110-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399211
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-PA3-110-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 18414 lumens
Efficiency: N/A
Efficacy: 163.0 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

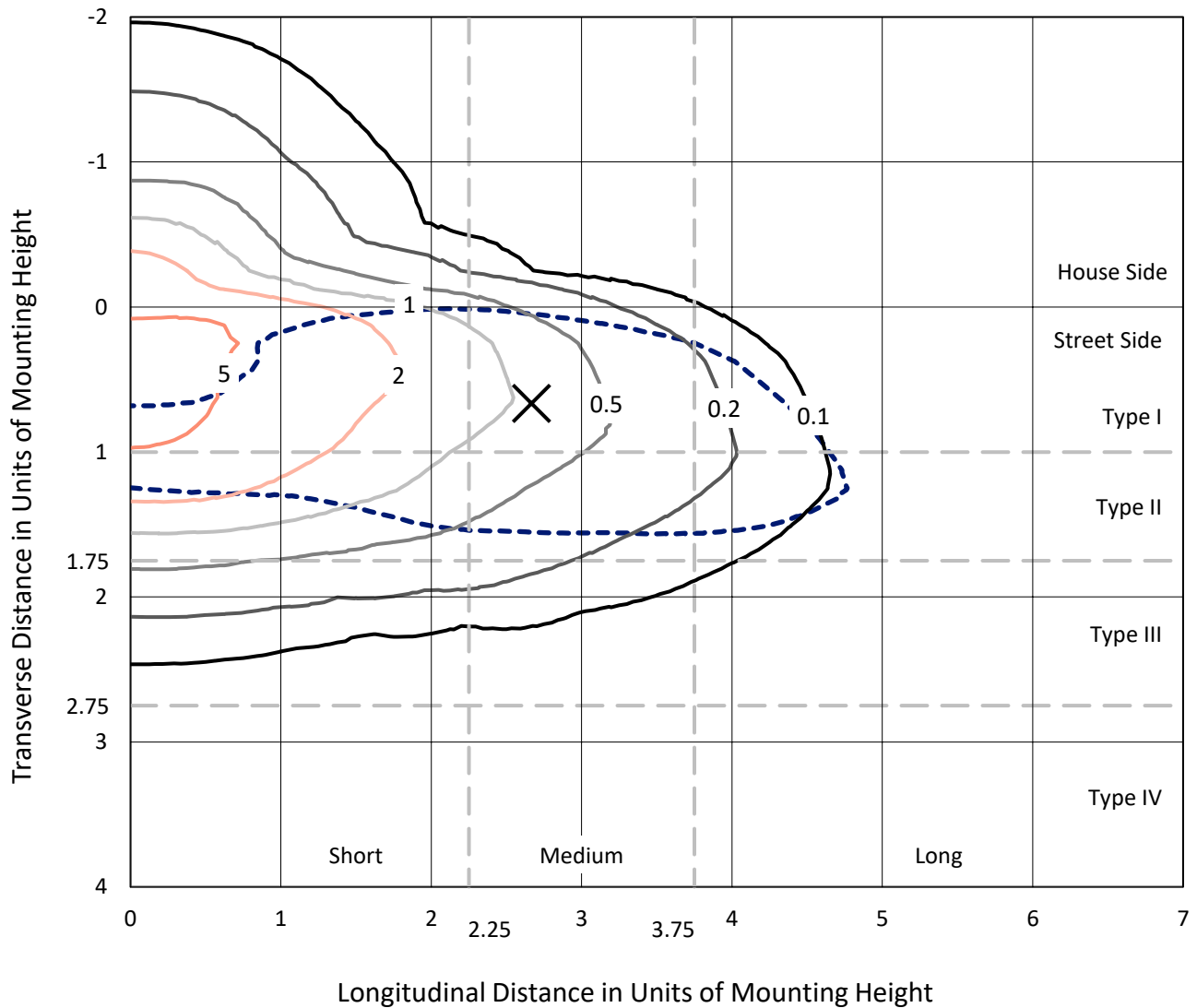
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

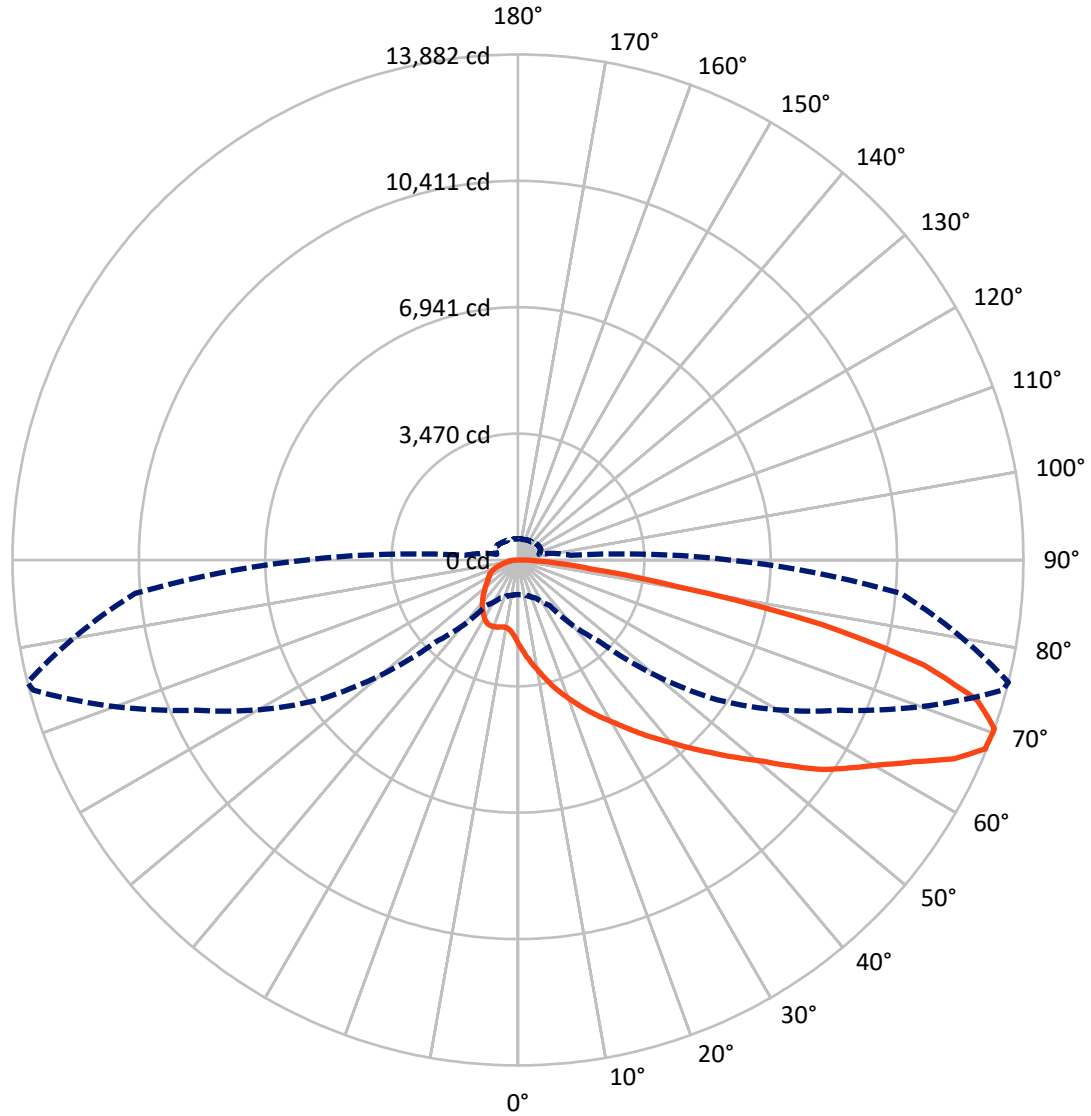
✕ Max cd
 - - - 1/2 Max cd



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	3006.3	0.0	3006.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	15407.7	0.0	15407.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	18414.0	0.0	18414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.3
10°-20°	813.2	4.4
20°-30°	1454.9	7.9
30°-40°	2353.5	12.8
40°-50°	3404.7	18.5
50°-60°	3896.9	21.2
60°-70°	3584.7	19.5
70°-80°	2216.7	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°	18414.0	100.0
0°-180°	18414.0	100.0

Coefficient of Utilization



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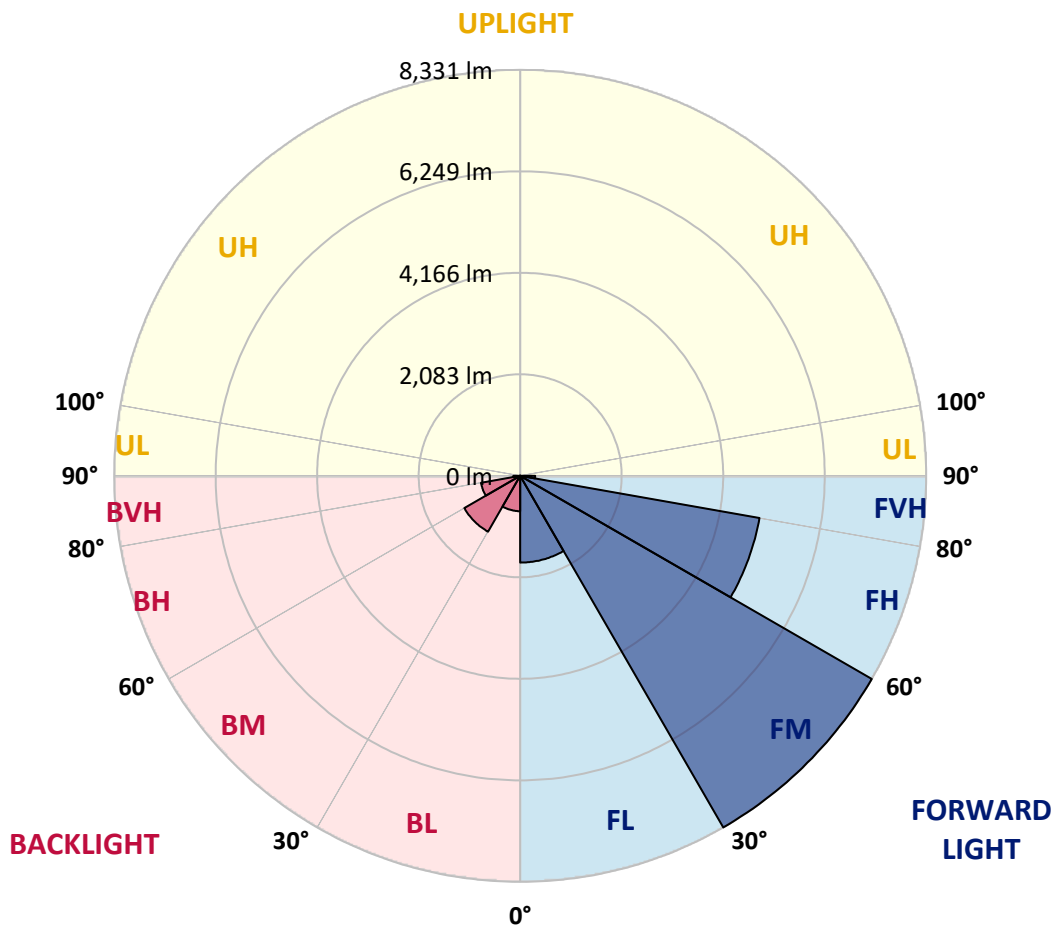
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.2	9.7			
FM (30°-60°)	8331.5	45.2			
FH (60°-80°)	4986.0	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°	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7
2.5°	2934.7	2912.9	2910.5	2876.6	2845.1	2760.4	2699.9	2593.3	2486.8	2484.4	2377.8
5°	3392.4	3370.6	3358.5	3317.3	3264.0	3152.7	3043.7	2879.0	2697.4	2685.3	2484.4
7.5°	3702.3	3682.9	3658.7	3641.8	3590.9	3491.7	3358.5	3162.3	2912.9	2888.7	2607.8
10°	3910.6	3898.5	3893.6	3881.5	3850.0	3770.1	3641.8	3433.5	3128.4	3101.8	2738.6
12.5°	4000.1	3995.3	4017.1	4051.0	4063.1	4031.6	3908.1	3712.0	3365.7	3336.7	2896.0
15°	3896.0	3900.9	3956.6	4072.8	4196.3	4264.1	4191.4	4000.1	3634.5	3593.4	3080.0
17.5°	3847.6	3854.9	3893.6	4005.0	4179.3	4390.0	4423.9	4273.8	3893.6	3835.5	3273.7
20°	3932.4	3942.0	3971.1	4058.3	4179.3	4404.5	4581.3	4535.3	4147.9	4087.3	3460.2
22.5°	4147.9	4160.0	4157.5	4213.2	4295.6	4450.5	4668.5	4782.3	4414.2	4346.4	3653.9
25°	4607.9	4598.2	4515.9	4489.3	4511.1	4610.3	4784.7	5019.6	4692.7	4624.9	3857.3
27.5°	5232.6	5220.5	5070.4	4934.8	4813.7	4857.3	4949.3	5210.8	4976.0	4898.5	4051.0
30°	5900.9	5886.4	5712.1	5491.7	5223.0	5160.0	5147.9	5377.9	5261.7	5179.4	4256.8
32.5°	6552.3	6540.2	6353.7	6097.1	5726.6	5537.7	5421.5	5564.4	5586.2	5506.3	4482.0
35°	7145.5	7145.5	6985.7	6680.6	6261.7	5976.0	5784.7	5794.4	5959.1	5867.0	4738.7
37.5°	7673.4	7671.0	7496.6	7196.4	6794.4	6467.6	6230.3	6072.9	6315.0	6235.1	5007.5
40°	8092.3	8075.4	7947.0	7685.5	7281.1	6956.7	6717.0	6399.8	6712.1	6639.5	5293.2
42.5°	8397.4	8387.7	8300.6	8072.9	7687.9	7382.8	7218.2	6811.4	7162.5	7089.9	5627.3
45°	8516.1	8535.4	8535.4	8319.9	8014.8	7736.4	7663.7	7264.2	7649.2	7576.6	5985.7
47.5°	8324.8	8375.6	8479.7	8494.3	8225.5	8036.6	8060.8	7719.4	8150.4	8111.7	6378.0
50°	7726.7	7821.1	8048.7	8460.4	8310.2	8266.7	8399.8	8184.3	8688.0	8675.9	6855.0
52.5°	6184.3	6414.3	7123.8	7862.3	8252.1	8373.2	8736.4	8707.3	9380.5	9399.9	7477.3
55°	4743.5	4830.7	5651.5	6908.2	7896.2	8339.3	8961.6	9218.3	10131.1	10155.3	8048.7
57.5°	3835.5	3893.6	4341.6	5651.5	7085.0	8155.3	9138.4	9516.1	10707.4	10770.4	8557.2
60°	3038.9	3123.6	3423.9	4324.6	5949.4	7712.2	9261.8	9847.8	11327.3	11421.7	9165.0
62.5°	2259.2	2300.3	2583.6	3203.5	4709.6	6915.5	9196.5	10208.6	12087.6	12201.4	9896.3
65°	1607.8	1644.1	1845.1	2278.5	3482.0	5838.0	8816.3	10477.4	13041.6	13157.9	10632.4
67.5°	1203.4	1218.0	1331.8	1593.3	2346.3	4535.3	8046.3	10431.4	13739.0	13843.1	10927.8
70°	951.6	956.5	1012.1	1152.6	1525.5	3157.5	6697.6	9755.8	13789.9	13881.9	10554.9
72.5°	789.4	787.0	818.4	886.2	1063.0	1997.7	4961.4	8501.5	13136.1	13199.0	9513.7
75°	651.4	656.2	678.0	716.7	811.2	1317.2	3215.6	6782.3	11588.8	11521.0	7983.3
77.5°	547.2	544.8	554.5	588.4	656.2	946.8	1883.8	4900.9	8588.7	8554.8	5239.9
80°	440.7	445.5	460.1	489.1	552.1	721.6	1113.8	3058.2	4607.9	4484.4	2503.7
82.5°	295.4	341.4	370.5	404.4	477.0	532.7	707.0	1554.5	2060.6	2029.1	1135.6
85°	140.4	186.4	276.0	314.8	387.4	334.2	479.4	740.9	1031.5	1019.4	409.2
87.5°	29.1	29.1	147.7	176.8	239.7	142.9	266.4	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°	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7	2302.7
2.5°	2314.9	2249.5	2118.7	2014.6	1908.1	1847.5	1772.5	1736.1	1728.9	1709.5	1724.0
5°	2356.0	2227.7	1980.7	1818.5	1709.5	1656.2	1629.6	1619.9	1617.5	1612.7	1612.7
7.5°	2411.7	2215.6	1893.5	1728.9	1658.7	1641.7	1649.0	1663.5	1665.9	1670.8	1668.3
10°	2479.5	2218.0	1845.1	1707.1	1673.2	1675.6	1699.8	1719.2	1728.9	1736.1	1733.7
12.5°	2573.9	2247.1	1837.8	1721.6	1707.1	1716.8	1741.0	1760.4	1770.0	1772.5	1772.5
15°	2697.4	2307.6	1854.8	1753.1	1741.0	1748.2	1762.8	1770.0	1772.5	1770.0	1770.0
17.5°	2833.0	2380.2	1879.0	1772.5	1753.1	1745.8	1741.0	1733.7	1719.2	1709.5	1709.5
20°	2963.8	2445.6	1891.1	1770.0	1736.1	1707.1	1678.0	1641.7	1617.5	1598.1	1598.1
22.5°	3094.5	2506.1	1891.1	1743.4	1690.1	1634.4	1573.9	1515.8	1479.5	1455.3	1455.3
25°	3232.6	2564.3	1876.6	1697.4	1617.5	1537.6	1455.3	1382.6	1346.3	1322.1	1317.2
27.5°	3348.8	2598.2	1837.8	1632.0	1527.9	1426.2	1331.8	1256.7	1230.1	1208.3	1208.3
30°	3472.3	2620.0	1765.2	1547.3	1426.2	1310.0	1213.1	1152.6	1123.5	1092.1	1089.6
32.5°	3610.3	2634.5	1682.9	1457.7	1322.1	1198.6	1116.3	1067.8	1004.9	971.0	966.1
35°	3770.1	2653.9	1595.7	1356.0	1218.0	1106.6	1058.2	978.2	917.7	888.7	886.2
37.5°	3939.6	2668.4	1501.3	1266.4	1123.5	1046.0	997.6	903.2	849.9	806.3	801.5
40°	4118.8	2668.4	1404.4	1179.2	1048.5	1019.4	927.4	842.6	753.1	731.3	726.4
42.5°	4317.4	2663.5	1307.6	1094.5	978.2	958.9	886.2	796.6	750.6	731.3	726.4
45°	4528.0	2646.6	1215.5	997.6	905.6	866.9	811.2	787.0	767.6	767.6	767.6
47.5°	4767.7	2632.1	1111.4	910.4	852.3	808.7	767.6	753.1	750.6	757.9	765.2
50°	5075.3	2627.2	1024.3	847.5	811.2	760.3	755.5	743.4	745.8	745.8	745.8
52.5°	5448.1	2583.6	941.9	801.5	770.0	709.5	724.0	736.1	740.9	738.5	736.1
55°	5721.8	2506.1	871.7	770.0	740.9	690.1	709.5	728.8	733.7	726.4	726.4
57.5°	5968.7	2397.2	816.0	745.8	721.6	678.0	699.8	719.2	714.3	711.9	709.5
60°	6252.0	2293.1	772.4	733.7	702.2	673.1	692.5	704.6	697.4	692.5	690.1
62.5°	6559.6	2191.4	740.9	733.7	687.7	670.7	685.3	690.1	675.6	670.7	670.7
65°	6702.4	2031.6	707.0	733.7	680.4	665.9	670.7	665.9	651.4	651.4	648.9
67.5°	6467.6	1767.6	663.5	724.0	690.1	658.6	648.9	641.7	624.7	624.7	619.9
70°	5818.6	1452.8	600.5	692.5	692.5	656.2	619.9	602.9	583.6	590.8	581.1
72.5°	4971.1	1152.6	523.0	639.2	678.0	653.8	588.4	561.8	544.8	552.1	537.6
75°	4026.8	893.5	431.0	554.5	641.7	641.7	556.9	520.6	501.2	501.2	484.3
77.5°	2566.7	661.0	351.1	460.1	576.3	624.7	530.3	474.6	445.5	438.3	426.2
80°	1271.2	464.9	288.1	365.6	491.5	586.0	510.9	421.3	380.2	365.6	343.8
82.5°	675.6	322.0	230.0	285.7	392.3	527.9	486.7	363.2	312.4	290.6	266.4
85°	302.7	198.6	184.0	217.9	297.8	433.4	438.3	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)