

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: P399931

Luminaire Tested: **ARCH-L-PA3-210-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399931
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-PA3-210-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30114 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

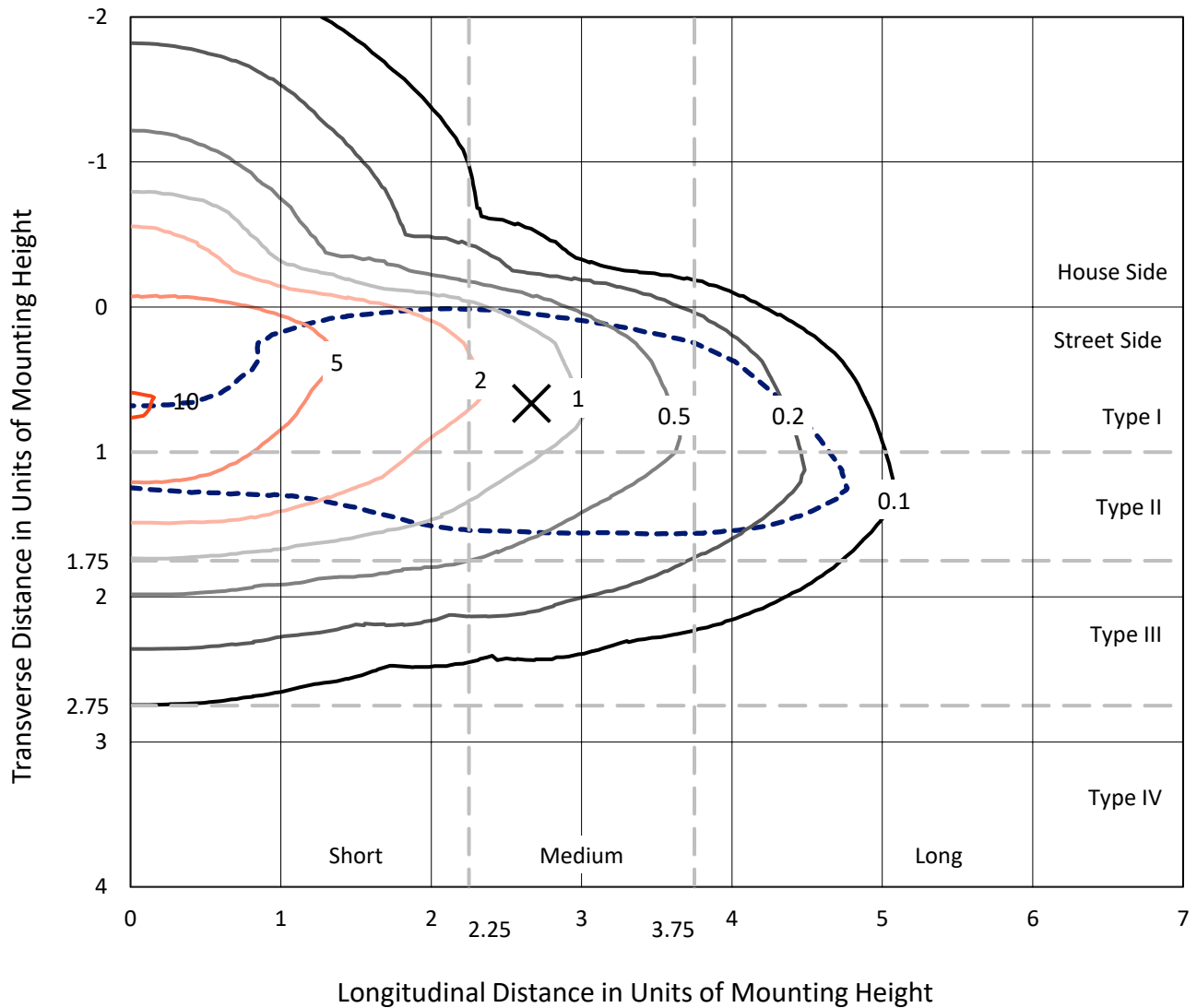
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

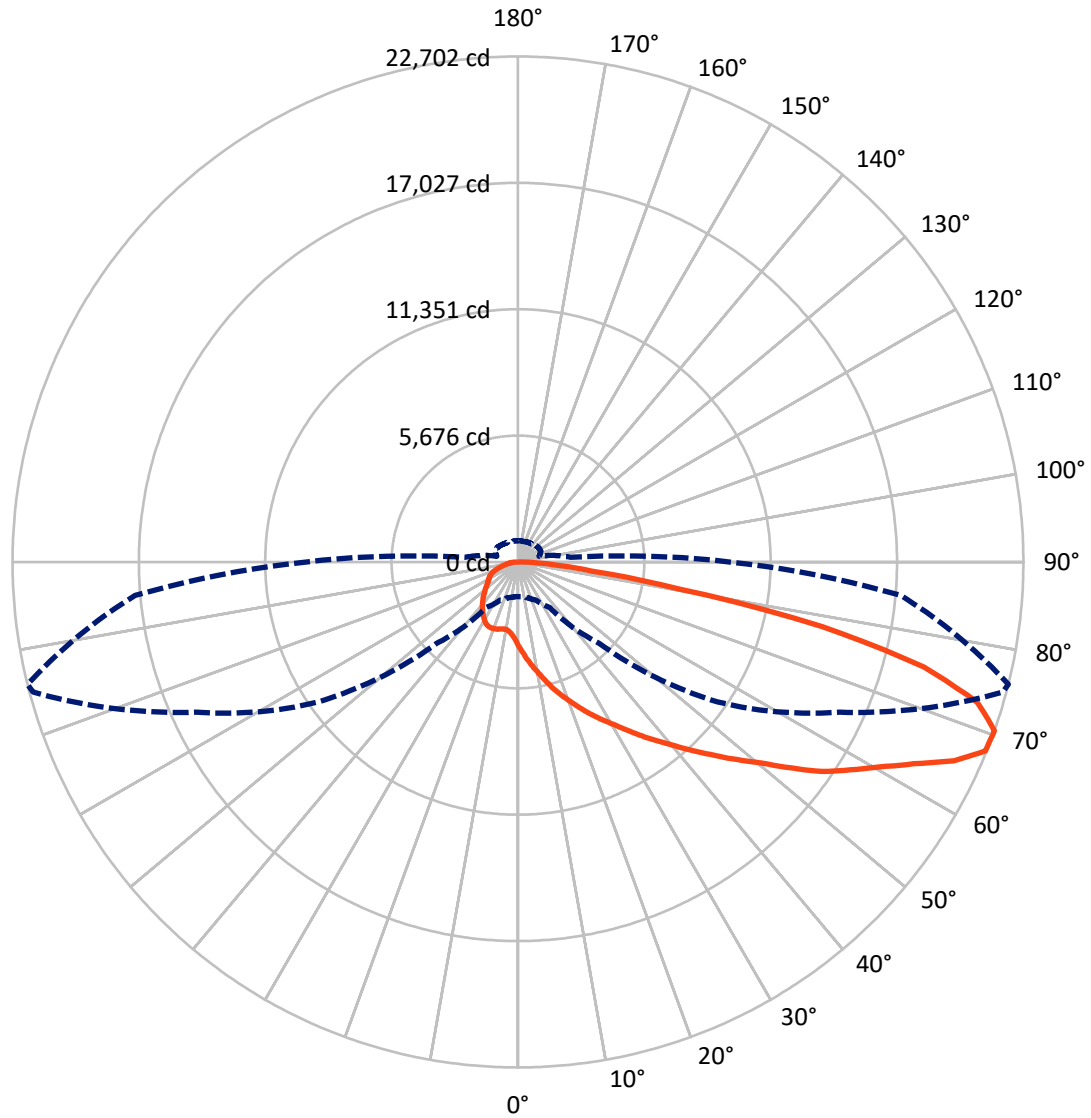
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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CATALOG NUMBER: ARCH-L-PA3-210-740-U-T2R

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	4916.4	0.0	4916.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	25197.6	0.0	25197.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	30114.0	0.0	30114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	1.3
10°-20°	1329.9	4.4
20°-30°	2379.3	7.9
30°-40°	3848.9	12.8
40°-50°	5568.0	18.5
50°-60°	6372.9	21.2
60°-70°	5862.4	19.5
70°-80°	3625.2	12.0
80°-90°	736.1	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°	30114.0	100.0
0°-180°	30114.0	100.0

Coefficient of Utilization



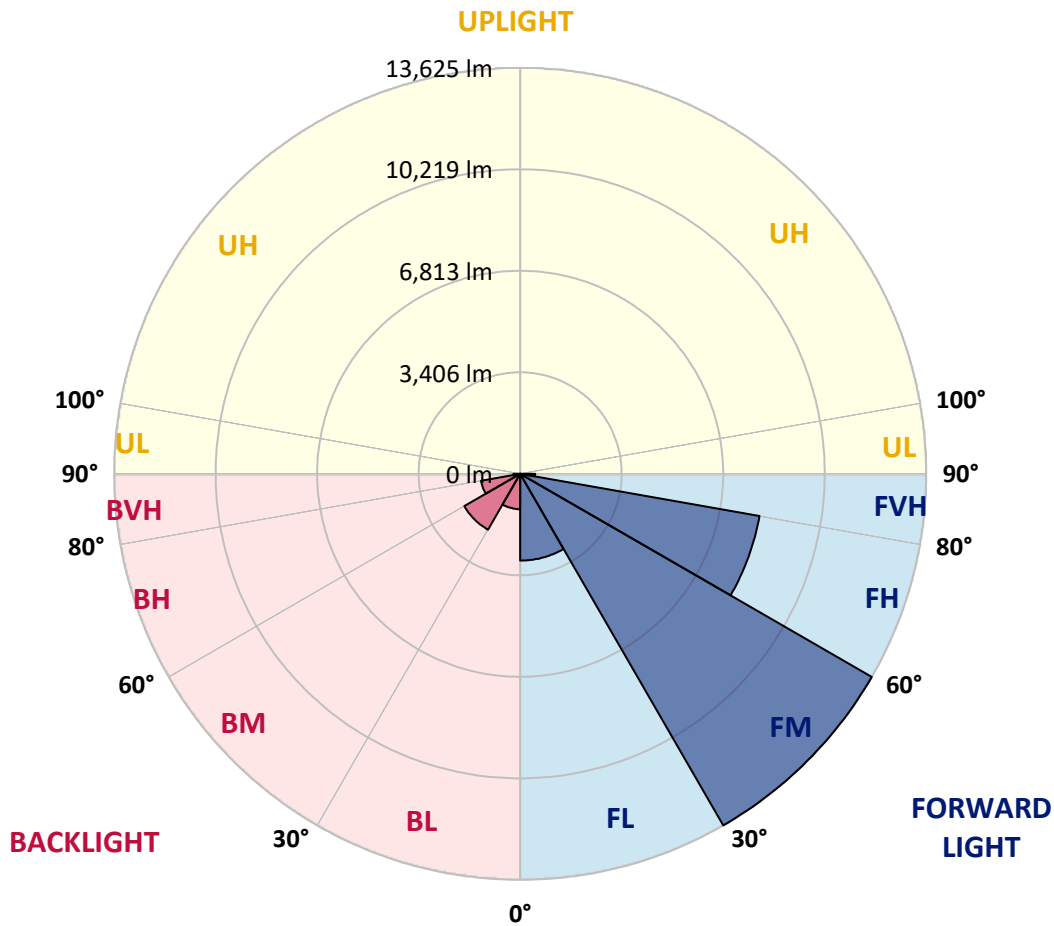
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2913.0	9.7			
FM (30°-60°)	13625.2	45.2			
FH (60°-80°)	8154.1	27.1			G4/12000
FVH (80°-90°)	505.4	1.7			G4/750
BL (0°-30°)	1187.5	3.9	B3/2500		
BM (30°-60°)	2164.7	7.2	B2/2500		
BH (60°-80°)	1333.5	4.4	B3/2500		G3/2500
BVH (80°-90°)	230.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9
2.5°	4799.4	4763.8	4759.8	4704.4	4652.9	4514.3	4415.3	4241.1	4066.8	4062.9	3888.6
5°	5547.8	5512.2	5492.4	5425.1	5338.0	5155.8	4977.6	4708.3	4411.4	4391.6	4062.9
7.5°	6054.7	6023.0	5983.4	5955.7	5872.6	5710.2	5492.4	5171.7	4763.8	4724.2	4264.8
10°	6395.3	6375.5	6367.6	6347.8	6296.3	6165.6	5955.7	5615.2	5116.2	5072.7	4478.7
12.5°	6541.8	6533.9	6569.5	6624.9	6644.7	6593.3	6391.3	6070.6	5504.3	5456.8	4736.1
15°	6371.5	6379.4	6470.5	6660.6	6862.5	6973.4	6854.6	6541.8	5943.8	5876.5	5037.0
17.5°	6292.3	6304.2	6367.6	6549.7	6834.8	7179.3	7234.8	6989.3	6367.6	6272.5	5353.8
20°	6430.9	6446.8	6494.3	6636.8	6834.8	7203.1	7492.2	7416.9	6783.3	6684.3	5658.7
22.5°	6783.3	6803.1	6799.2	6890.3	7024.9	7278.3	7634.7	7820.8	7218.9	7108.1	5975.5
25°	7535.7	7519.9	7385.3	7341.7	7377.3	7539.7	7824.8	8208.9	7674.3	7563.4	6308.2
27.5°	8557.4	8537.6	8292.1	8070.3	7872.3	7943.6	8094.1	8521.7	8137.6	8010.9	6624.9
30°	9650.3	9626.6	9341.5	8981.1	8541.5	8438.6	8418.8	8795.0	8604.9	8470.3	6961.5
32.5°	10715.5	10695.7	10390.8	9971.1	9365.2	9056.3	8866.3	9099.9	9135.5	9004.9	7329.8
35°	11685.7	11685.7	11424.4	10925.4	10240.4	9773.1	9460.3	9476.1	9745.4	9594.9	7749.6
37.5°	12549.0	12545.0	12259.9	11768.9	11111.5	10576.9	10188.9	9931.5	10327.5	10196.8	8189.1
40°	13234.1	13206.3	12996.5	12568.8	11907.5	11376.9	10984.8	10466.1	10976.9	10858.1	8656.4
42.5°	13733.0	13717.2	13574.6	13202.4	12572.7	12073.8	11804.5	11139.3	11713.4	11594.6	9202.9
45°	13927.0	13958.7	13958.7	13606.3	13107.3	12651.9	12533.1	11879.8	12509.4	12390.6	9788.9
47.5°	13614.2	13697.4	13867.6	13891.4	13451.9	13143.0	13182.6	12624.2	13329.1	13265.7	10430.4
50°	12636.1	12790.5	13162.8	13836.0	13590.4	13519.2	13737.0	13384.5	14208.2	14188.4	11210.5
52.5°	10113.6	10489.8	11650.1	12857.9	13495.4	13693.4	14287.4	14239.9	15340.7	15372.4	12228.2
55°	7757.5	7900.0	9242.5	11297.7	12913.3	13638.0	14655.7	15075.4	16568.3	16607.9	13162.8
57.5°	6272.5	6367.6	7100.1	9242.5	11586.7	13337.0	14944.7	15562.5	17510.8	17613.7	13994.4
60°	4969.7	5108.3	5599.3	7072.4	9729.5	12612.3	15146.7	16105.0	18524.5	18678.9	14988.3
62.5°	3694.6	3761.9	4225.2	5239.0	7702.0	11309.5	15039.8	16695.0	19767.9	19954.0	16184.2
65°	2629.4	2688.8	3017.5	3726.3	5694.4	9547.4	14418.1	17134.6	21328.1	21518.2	17388.0
67.5°	1968.1	1991.8	2178.0	2605.6	3837.2	7416.9	13158.8	17059.3	22468.6	22638.9	17871.1
70°	1556.2	1564.2	1655.2	1884.9	2494.8	5163.7	10953.1	15954.5	22551.7	22702.2	17261.3
72.5°	1290.9	1287.0	1338.5	1449.3	1738.4	3266.9	8113.9	13903.3	21482.6	21585.5	15558.5
75°	1065.2	1073.1	1108.8	1172.1	1326.6	2154.2	5258.8	11091.7	18952.2	18841.3	13055.9
77.5°	894.9	891.0	906.8	962.3	1073.1	1548.3	3080.8	8014.9	14045.8	13990.4	8569.3
80°	720.7	728.6	752.4	799.9	902.9	1180.1	1821.6	5001.4	7535.7	7333.8	4094.6
82.5°	483.1	558.3	605.9	661.3	780.1	871.2	1156.3	2542.3	3369.9	3318.4	1857.2
85°	229.7	304.9	451.4	514.8	633.6	546.5	784.1	1211.7	1686.9	1667.1	669.2
87.5°	47.5	47.5	241.6	289.1	392.0	233.6	435.6	526.7	815.7	764.3	273.2
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°	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9
2.5°	3785.7	3678.8	3464.9	3294.7	3120.4	3021.4	2898.7	2839.3	2827.4	2795.7	2819.5
5°	3853.0	3643.1	3239.2	2973.9	2795.7	2708.6	2665.0	2649.2	2645.2	2637.3	2637.3
7.5°	3944.1	3623.3	3096.7	2827.4	2712.5	2684.8	2696.7	2720.5	2724.4	2732.3	2728.4
10°	4055.0	3627.3	3017.5	2791.7	2736.3	2740.3	2779.9	2811.5	2827.4	2839.3	2835.3
12.5°	4209.4	3674.8	3005.6	2815.5	2791.7	2807.6	2847.2	2878.9	2894.7	2898.7	2898.7
15°	4411.4	3773.8	3033.3	2867.0	2847.2	2859.1	2882.8	2894.7	2898.7	2894.7	2894.7
17.5°	4633.1	3892.6	3072.9	2898.7	2867.0	2855.1	2847.2	2835.3	2811.5	2795.7	2795.7
20°	4846.9	3999.5	3092.7	2894.7	2839.3	2791.7	2744.2	2684.8	2645.2	2613.5	2613.5
22.5°	5060.8	4098.5	3092.7	2851.1	2764.0	2672.9	2573.9	2478.9	2419.5	2379.9	2379.9
25°	5286.5	4193.6	3068.9	2775.9	2645.2	2514.5	2379.9	2261.1	2201.7	2162.1	2154.2
27.5°	5476.6	4249.0	3005.6	2669.0	2498.7	2332.4	2178.0	2055.2	2011.6	1976.0	1976.0
30°	5678.5	4284.6	2886.8	2530.4	2332.4	2142.3	1983.9	1884.9	1837.4	1785.9	1782.0
32.5°	5904.2	4308.4	2752.1	2383.9	2162.1	1960.2	1825.5	1746.3	1643.4	1587.9	1580.0
35°	6165.6	4340.1	2609.6	2217.6	1991.8	1809.7	1730.5	1599.8	1500.8	1453.3	1449.3
37.5°	6442.8	4363.8	2455.2	2071.0	1837.4	1710.7	1631.5	1477.1	1389.9	1318.7	1310.7
40°	6735.8	4363.8	2296.8	1928.5	1714.6	1667.1	1516.6	1378.1	1231.5	1195.9	1188.0
42.5°	7060.5	4355.9	2138.4	1789.9	1599.8	1568.1	1449.3	1302.8	1227.6	1195.9	1188.0
45°	7405.1	4328.2	1987.9	1631.5	1481.0	1417.7	1326.6	1287.0	1255.3	1255.3	1255.3
47.5°	7797.1	4304.4	1817.6	1488.9	1393.9	1322.6	1255.3	1231.5	1227.6	1239.5	1251.3
50°	8300.0	4296.5	1675.0	1386.0	1326.6	1243.4	1235.5	1215.7	1219.7	1219.7	1219.7
52.5°	8909.8	4225.2	1540.4	1310.7	1259.3	1160.3	1184.0	1203.8	1211.7	1207.8	1203.8
55°	9357.3	4098.5	1425.6	1259.3	1211.7	1128.6	1160.3	1191.9	1199.9	1188.0	1188.0
57.5°	9761.2	3920.3	1334.5	1219.7	1180.1	1108.8	1144.4	1176.1	1168.2	1164.2	1160.3
60°	10224.5	3750.0	1263.2	1199.9	1148.4	1100.9	1132.5	1152.3	1140.5	1132.5	1128.6
62.5°	10727.4	3583.7	1211.7	1199.9	1124.6	1096.9	1120.7	1128.6	1104.8	1096.9	1096.9
65°	10961.1	3322.4	1156.3	1199.9	1112.7	1089.0	1096.9	1089.0	1065.2	1065.2	1061.3
67.5°	10576.9	2890.7	1085.0	1184.0	1128.6	1077.1	1061.3	1049.4	1021.7	1021.7	1013.7
70°	9515.7	2376.0	982.1	1132.5	1132.5	1073.1	1013.7	986.0	954.3	966.2	950.4
72.5°	8129.7	1884.9	855.3	1045.4	1108.8	1069.2	962.3	918.7	891.0	902.9	879.1
75°	6585.3	1461.2	704.9	906.8	1049.4	1049.4	910.8	851.4	819.7	819.7	792.0
77.5°	4197.5	1081.1	574.2	752.4	942.5	1021.7	867.2	776.1	728.6	716.7	696.9
80°	2079.0	760.3	471.2	597.9	803.9	958.3	835.5	689.0	621.7	597.9	562.3
82.5°	1104.8	526.7	376.2	467.3	641.5	863.3	795.9	594.0	510.8	475.2	435.6
85°	495.0	324.7	301.0	356.4	487.1	708.8	716.7	487.1	392.0	467.3	344.5
87.5°	182.2	146.5	146.5	182.2	281.2	297.0	506.9	312.8	249.5	170.3	134.6
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)