

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: P399949

Luminaire Tested: **ARCH-L-PA3-210-760-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399949
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-PA3-210-760-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 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: 30113 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

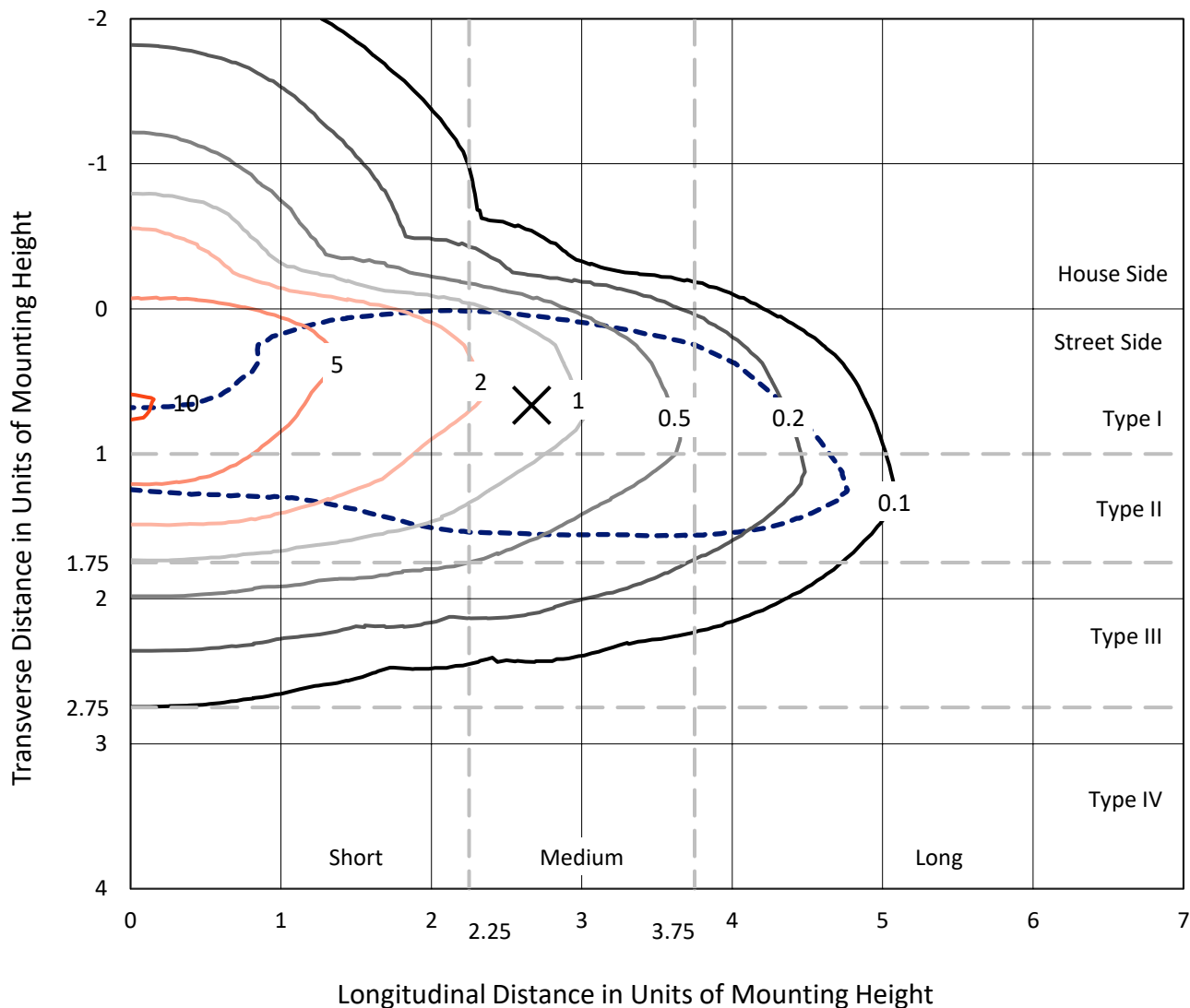
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

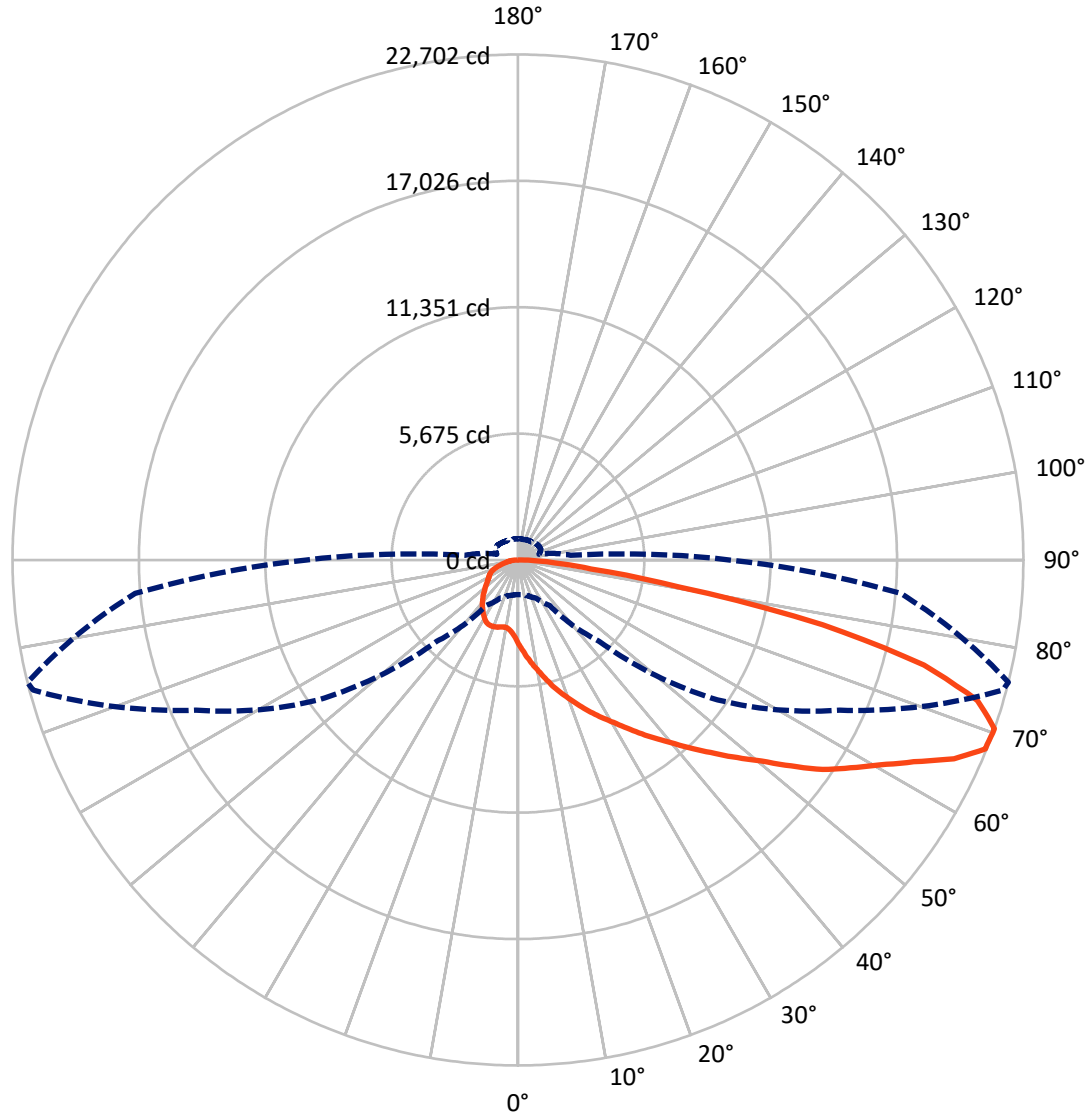
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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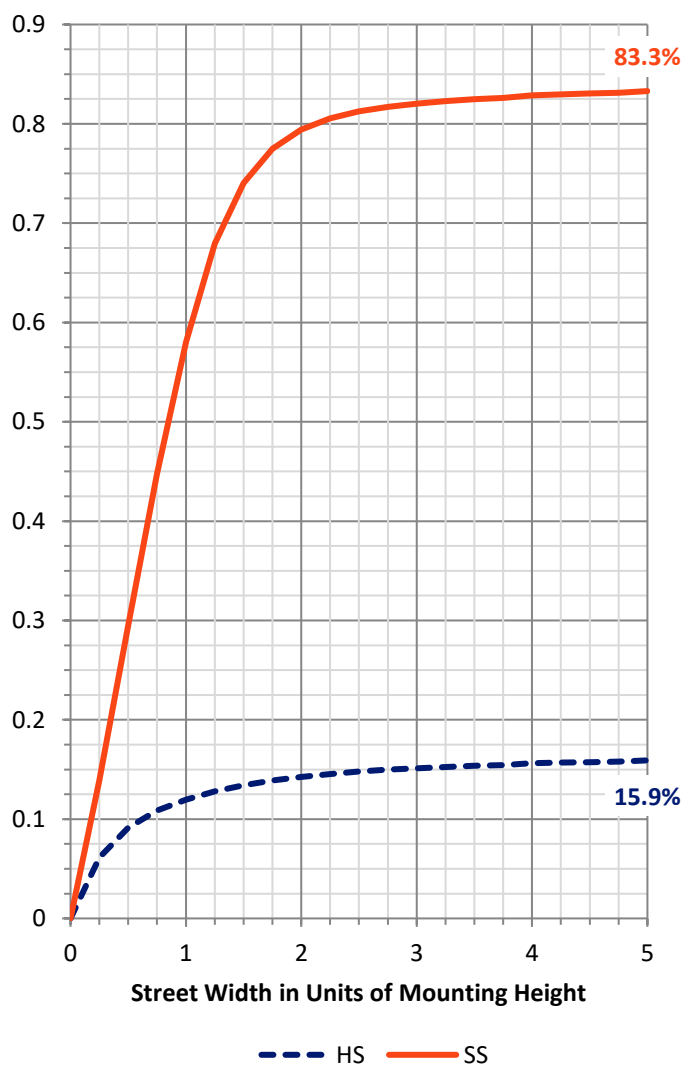
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4916.2	0.0	4916.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	25196.8	0.0	25196.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	30113.0	0.0	30113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	1.3
10°-20°	1329.8	4.4
20°-30°	2379.2	7.9
30°-40°	3848.8	12.8
40°-50°	5567.8	18.5
50°-60°	6372.7	21.2
60°-70°	5862.2	19.5
70°-80°	3625.1	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°	30113.0	100.0
0°-180°	30113.0	100.0

Coefficient of Utilization



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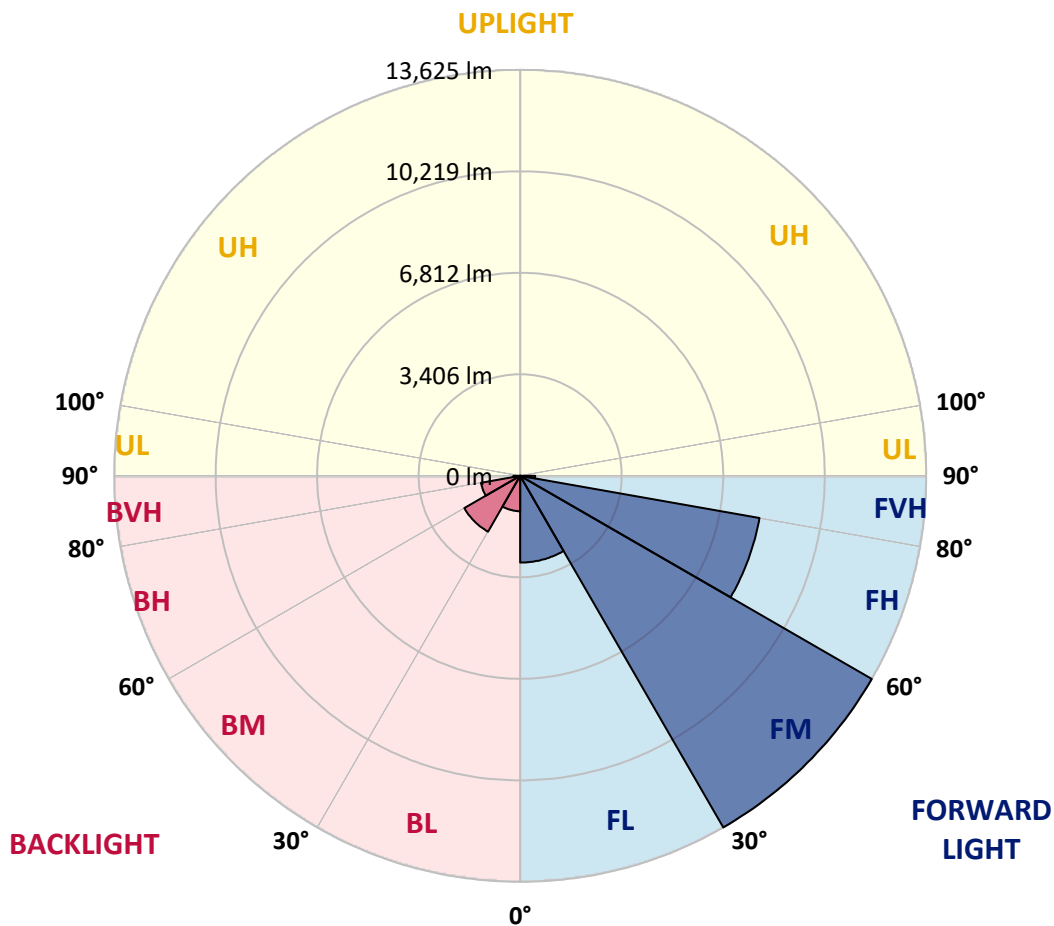
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.9	9.7			
FM (30°-60°)	13624.7	45.2			
FH (60°-80°)	8153.8	27.1			G4/12000
FVH (80°-90°)	505.3	1.7			G4/750
BL (0°-30°)	1187.4	3.9	B3/2500		
BM (30°-60°)	2164.6	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°	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8
2.5°	4799.3	4763.6	4759.7	4704.2	4652.8	4514.2	4415.2	4240.9	4066.7	4062.7	3888.5
5°	5547.7	5512.0	5492.2	5424.9	5337.8	5155.6	4977.5	4708.2	4411.2	4391.4	4062.7
7.5°	6054.5	6022.8	5983.2	5955.5	5872.4	5710.0	5492.2	5171.5	4763.6	4724.0	4264.7
10°	6395.1	6375.3	6367.3	6347.5	6296.1	6165.4	5955.5	5615.0	5116.0	5072.5	4478.5
12.5°	6541.6	6533.7	6569.3	6624.7	6644.5	6593.0	6391.1	6070.4	5504.1	5456.6	4735.9
15°	6371.3	6379.2	6470.3	6660.4	6862.3	6973.2	6854.4	6541.6	5943.6	5876.3	5036.9
17.5°	6292.1	6304.0	6367.3	6549.5	6834.6	7179.1	7234.5	6989.0	6367.3	6272.3	5353.6
20°	6430.7	6446.5	6494.1	6636.6	6834.6	7202.9	7491.9	7416.7	6783.1	6684.1	5658.5
22.5°	6783.1	6802.9	6799.0	6890.0	7024.7	7278.1	7634.5	7820.6	7218.7	7107.8	5975.3
25°	7535.5	7519.6	7385.0	7341.4	7377.1	7539.4	7824.5	8208.6	7674.1	7563.2	6307.9
27.5°	8557.1	8537.3	8291.8	8070.1	7872.1	7943.3	8093.8	8521.5	8137.4	8010.7	6624.7
30°	9650.0	9626.2	9341.1	8980.8	8541.3	8438.3	8418.5	8794.7	8604.6	8470.0	6961.3
32.5°	10715.2	10695.4	10390.5	9970.7	9364.9	9056.0	8866.0	9099.6	9135.2	9004.6	7329.6
35°	11685.3	11685.3	11424.0	10925.1	10240.0	9772.8	9459.9	9475.8	9745.0	9594.6	7749.3
37.5°	12548.6	12544.6	12259.5	11768.5	11111.2	10576.6	10188.5	9931.2	10327.1	10196.5	8188.8
40°	13233.6	13205.9	12996.0	12568.4	11907.1	11376.5	10984.5	10465.7	10976.5	10857.7	8656.1
42.5°	13732.5	13716.7	13574.2	13201.9	12572.3	12073.4	11804.1	11138.9	11713.1	11594.3	9202.5
45°	13926.6	13958.3	13958.3	13605.8	13106.9	12651.5	12532.7	11879.4	12509.0	12390.2	9788.6
47.5°	13613.8	13696.9	13867.2	13890.9	13451.4	13142.5	13182.1	12623.8	13328.7	13265.3	10430.1
50°	12635.7	12790.1	13162.3	13835.5	13590.0	13518.7	13736.5	13384.1	14207.7	14187.9	11210.2
52.5°	10113.3	10489.5	11649.7	12857.4	13495.0	13693.0	14286.9	14239.4	15340.2	15371.9	12227.8
55°	7757.2	7899.8	9242.1	11297.3	12912.9	13637.5	14655.2	15074.9	16567.8	16607.4	13162.3
57.5°	6272.3	6367.3	7099.9	9242.1	11586.3	13336.6	14944.2	15562.0	17510.2	17613.1	13993.9
60°	4969.5	5108.1	5599.1	7072.2	9729.2	12611.9	15146.2	16104.5	18523.9	18678.3	14987.8
62.5°	3694.5	3761.8	4225.1	5238.8	7701.8	11309.2	15039.3	16694.5	19767.3	19953.4	16183.7
65°	2629.3	2688.7	3017.4	3726.2	5694.2	9547.1	14417.6	17134.0	21327.4	21517.5	17387.4
67.5°	1968.0	1991.8	2177.9	2605.5	3837.0	7416.7	13158.4	17058.8	22467.8	22638.1	17870.5
70°	1556.2	1564.1	1655.2	1884.9	2494.7	5163.6	10952.8	15954.0	22551.0	22701.5	17260.7
72.5°	1290.9	1286.9	1338.4	1449.3	1738.3	3266.8	8113.6	13902.8	21481.9	21584.8	15558.0
75°	1065.2	1073.1	1108.7	1172.1	1326.5	2154.1	5258.6	11091.4	18951.6	18840.7	13055.4
77.5°	894.9	891.0	906.8	962.2	1073.1	1548.3	3080.7	8014.6	14045.4	13989.9	8569.0
80°	720.7	728.6	752.4	799.9	902.8	1180.0	1821.5	5001.2	7535.5	7333.5	4094.4
82.5°	483.1	558.3	605.8	661.3	780.1	871.2	1156.3	2542.2	3369.8	3318.3	1857.1
85°	229.7	304.9	451.4	514.8	633.6	546.5	784.0	1211.7	1686.9	1667.1	669.2
87.5°	47.5	47.5	241.5	289.1	392.0	233.6	435.6	526.7	815.7	764.2	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°	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8	3765.8
2.5°	3785.6	3678.6	3464.8	3294.5	3120.3	3021.3	2898.6	2839.2	2827.3	2795.6	2819.4
5°	3852.9	3643.0	3239.1	2973.8	2795.6	2708.5	2664.9	2649.1	2645.1	2637.2	2637.2
7.5°	3943.9	3623.2	3096.6	2827.3	2712.5	2684.7	2696.6	2720.4	2724.3	2732.3	2728.3
10°	4054.8	3627.2	3017.4	2791.7	2736.2	2740.2	2779.8	2811.5	2827.3	2839.2	2835.2
12.5°	4209.3	3674.7	3005.5	2815.4	2791.7	2807.5	2847.1	2878.8	2894.6	2898.6	2898.6
15°	4411.2	3773.7	3033.2	2866.9	2847.1	2859.0	2882.7	2894.6	2898.6	2894.6	2894.6
17.5°	4633.0	3892.5	3072.8	2898.6	2866.9	2855.0	2847.1	2835.2	2811.5	2795.6	2795.6
20°	4846.8	3999.4	3092.6	2894.6	2839.2	2791.7	2744.1	2684.7	2645.1	2613.5	2613.5
22.5°	5060.6	4098.4	3092.6	2851.0	2763.9	2672.9	2573.9	2478.8	2419.4	2379.8	2379.8
25°	5286.3	4193.4	3068.8	2775.8	2645.1	2514.5	2379.8	2261.0	2201.6	2162.0	2154.1
27.5°	5476.4	4248.9	3005.5	2668.9	2498.6	2332.3	2177.9	2055.1	2011.6	1975.9	1975.9
30°	5678.3	4284.5	2886.7	2530.3	2332.3	2142.2	1983.9	1884.9	1837.3	1785.9	1781.9
32.5°	5904.0	4308.3	2752.1	2383.8	2162.0	1960.1	1825.5	1746.3	1643.3	1587.9	1580.0
35°	6165.4	4339.9	2609.5	2217.5	1991.8	1809.6	1730.4	1599.8	1500.8	1453.2	1449.3
37.5°	6442.6	4363.7	2455.1	2071.0	1837.3	1710.6	1631.4	1477.0	1389.9	1318.6	1310.7
40°	6735.6	4363.7	2296.7	1928.4	1714.6	1667.1	1516.6	1378.0	1231.5	1195.9	1187.9
42.5°	7060.3	4355.8	2138.3	1789.8	1599.8	1568.1	1449.3	1302.8	1227.5	1195.9	1187.9
45°	7404.8	4328.0	1987.8	1631.4	1481.0	1417.6	1326.5	1286.9	1255.3	1255.3	1255.3
47.5°	7796.8	4304.3	1817.5	1488.9	1393.8	1322.6	1255.3	1231.5	1227.5	1239.4	1251.3
50°	8299.7	4296.4	1675.0	1385.9	1326.5	1243.4	1235.5	1215.7	1219.6	1219.6	1219.6
52.5°	8909.5	4225.1	1540.4	1310.7	1259.2	1160.2	1184.0	1203.8	1211.7	1207.7	1203.8
55°	9357.0	4098.4	1425.5	1259.2	1211.7	1128.5	1160.2	1191.9	1199.8	1187.9	1187.9
57.5°	9760.9	3920.2	1334.4	1219.6	1180.0	1108.7	1144.4	1176.1	1168.1	1164.2	1160.2
60°	10224.2	3749.9	1263.2	1199.8	1148.3	1100.8	1132.5	1152.3	1140.4	1132.5	1128.5
62.5°	10727.1	3583.6	1211.7	1199.8	1124.6	1096.9	1120.6	1128.5	1104.8	1096.9	1096.9
65°	10960.7	3322.3	1156.3	1199.8	1112.7	1088.9	1096.9	1088.9	1065.2	1065.2	1061.2
67.5°	10576.6	2890.6	1085.0	1184.0	1128.5	1077.1	1061.2	1049.3	1021.6	1021.6	1013.7
70°	9515.4	2375.9	982.0	1132.5	1132.5	1073.1	1013.7	986.0	954.3	966.2	950.3
72.5°	8129.4	1884.9	855.3	1045.4	1108.7	1069.1	962.2	918.7	891.0	902.8	879.1
75°	6585.1	1461.2	704.8	906.8	1049.3	1049.3	910.8	851.4	819.7	819.7	792.0
77.5°	4197.4	1081.0	574.2	752.4	942.4	1021.6	867.2	776.1	728.6	716.7	696.9
80°	2078.9	760.3	471.2	597.9	803.8	958.3	835.5	689.0	621.7	597.9	562.3
82.5°	1104.8	526.7	376.2	467.3	641.5	863.2	795.9	594.0	510.8	475.2	435.6
85°	495.0	324.7	300.9	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	281.1	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)