

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: P236880

Luminaire Tested: **ARCH-L-AF72-270-D-U-T2R-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-270-D-U-T2R-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29908 lumens
Efficiency: N/A
Efficacy: 109.6 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

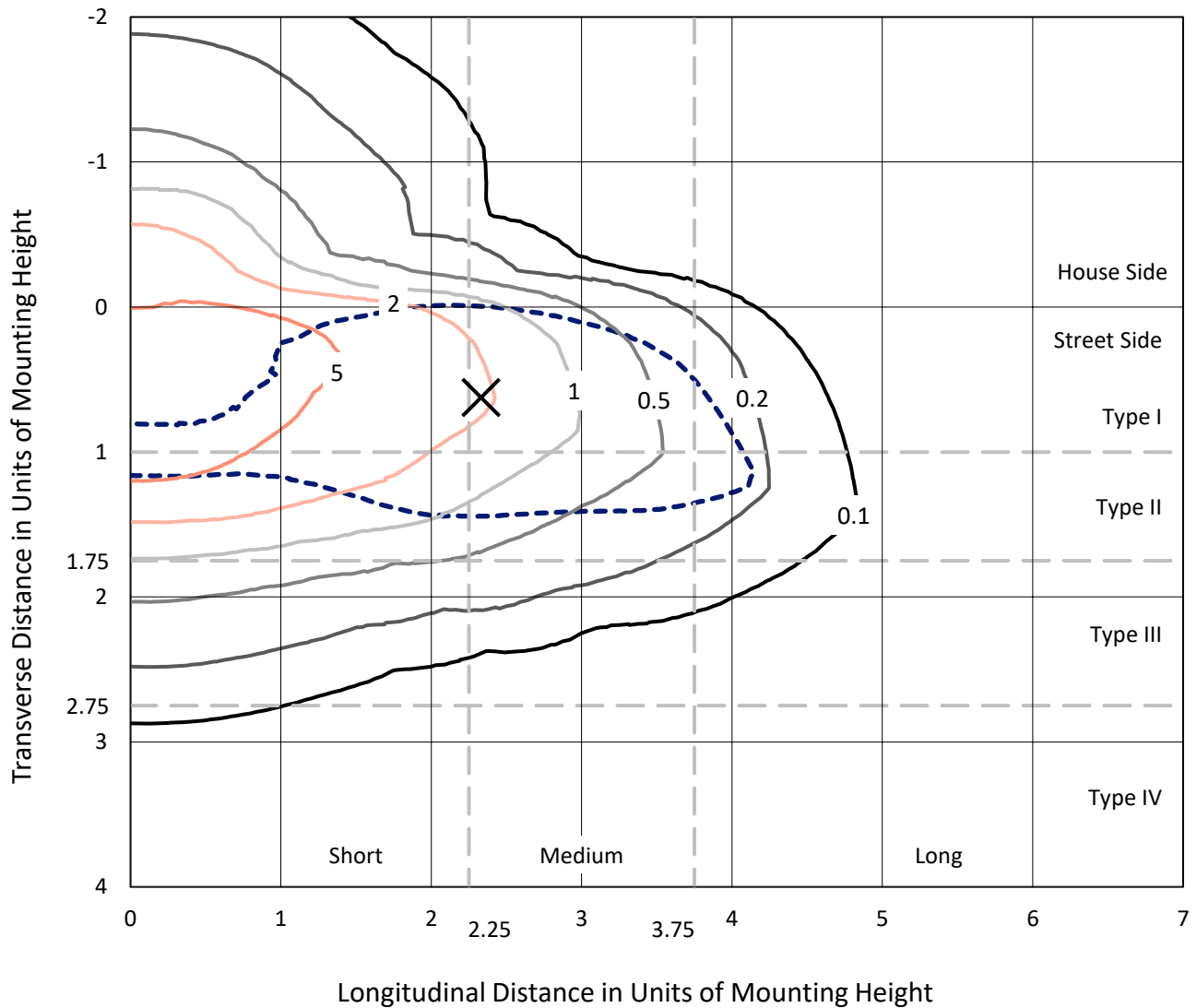
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

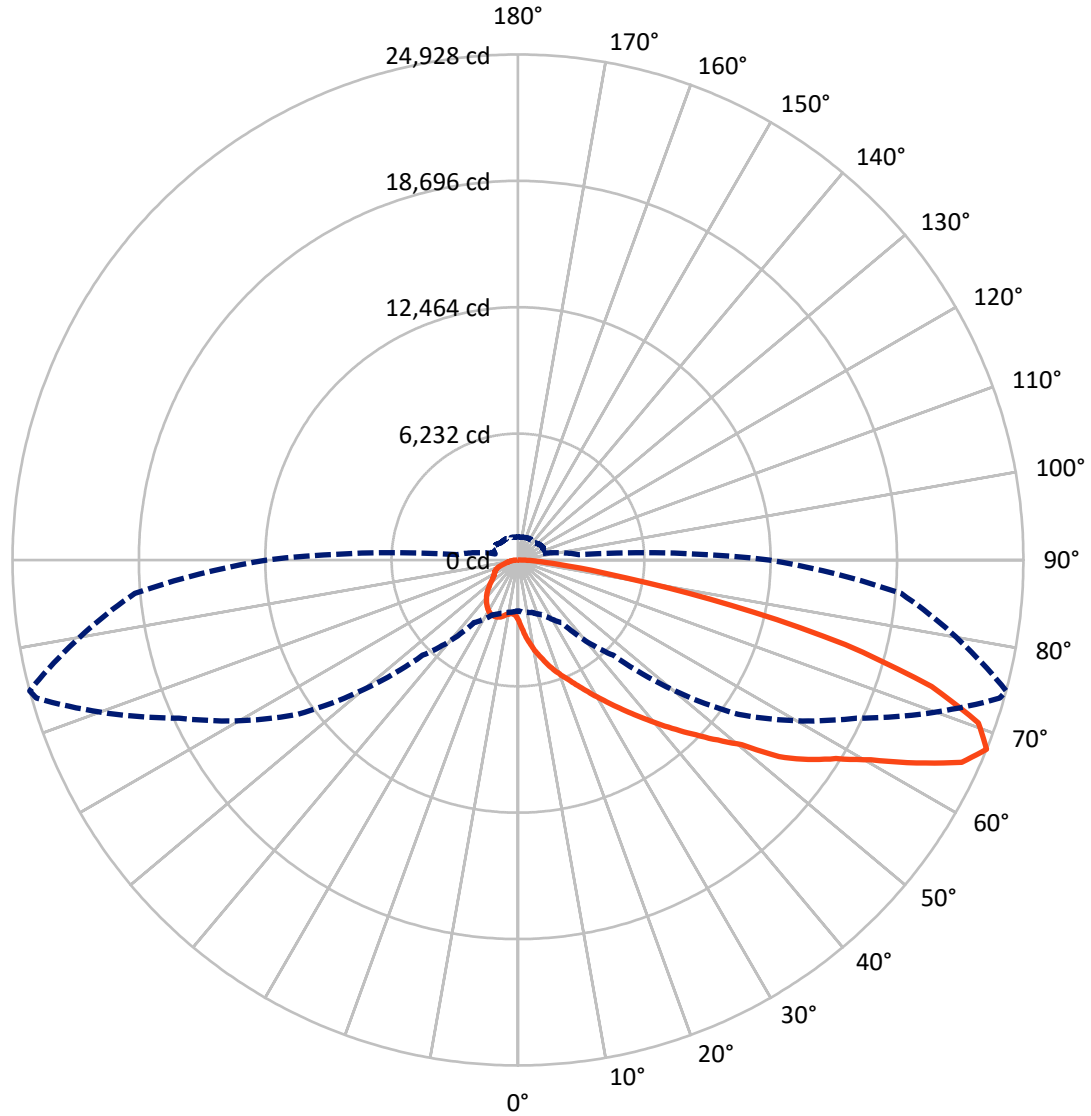
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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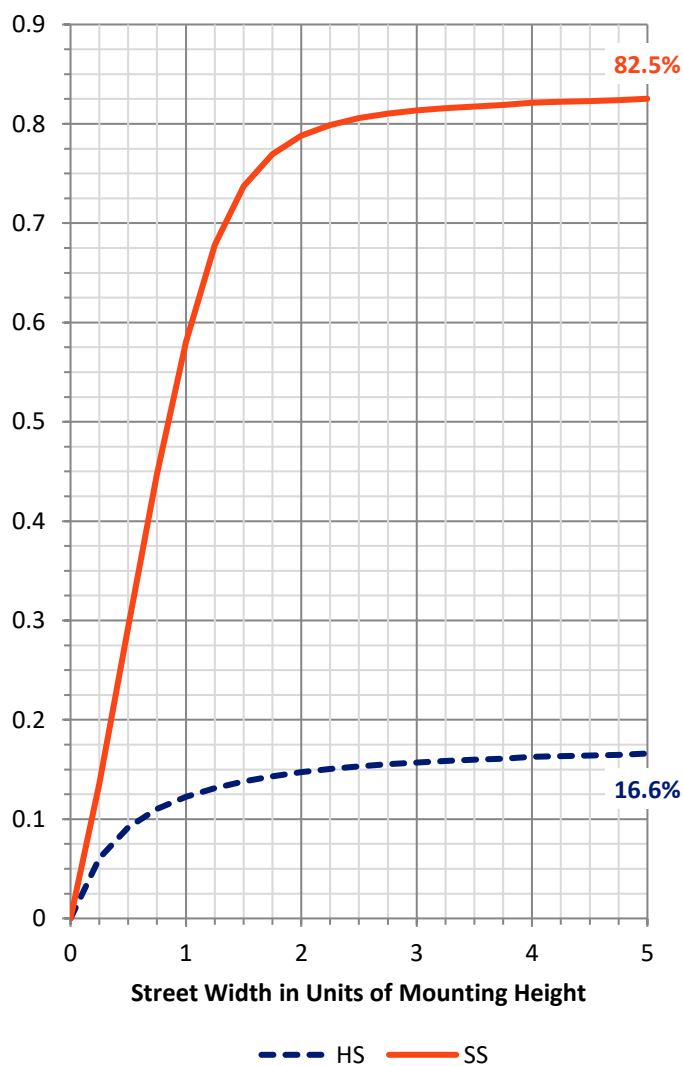
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5107.2	0.0	5107.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24800.8	0.0	24800.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	29908.0	0.0	29908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	1.2
10°-20°	1258.2	4.2
20°-30°	2294.9	7.7
30°-40°	3766.8	12.6
40°-50°	5447.3	18.2
50°-60°	6419.7	21.5
60°-70°	6238.4	20.9
70°-80°	3467.7	11.6
80°-90°	666.8	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°	29908.0	100.0
0°-180°	29908.0	100.0

Coefficient of Utilization

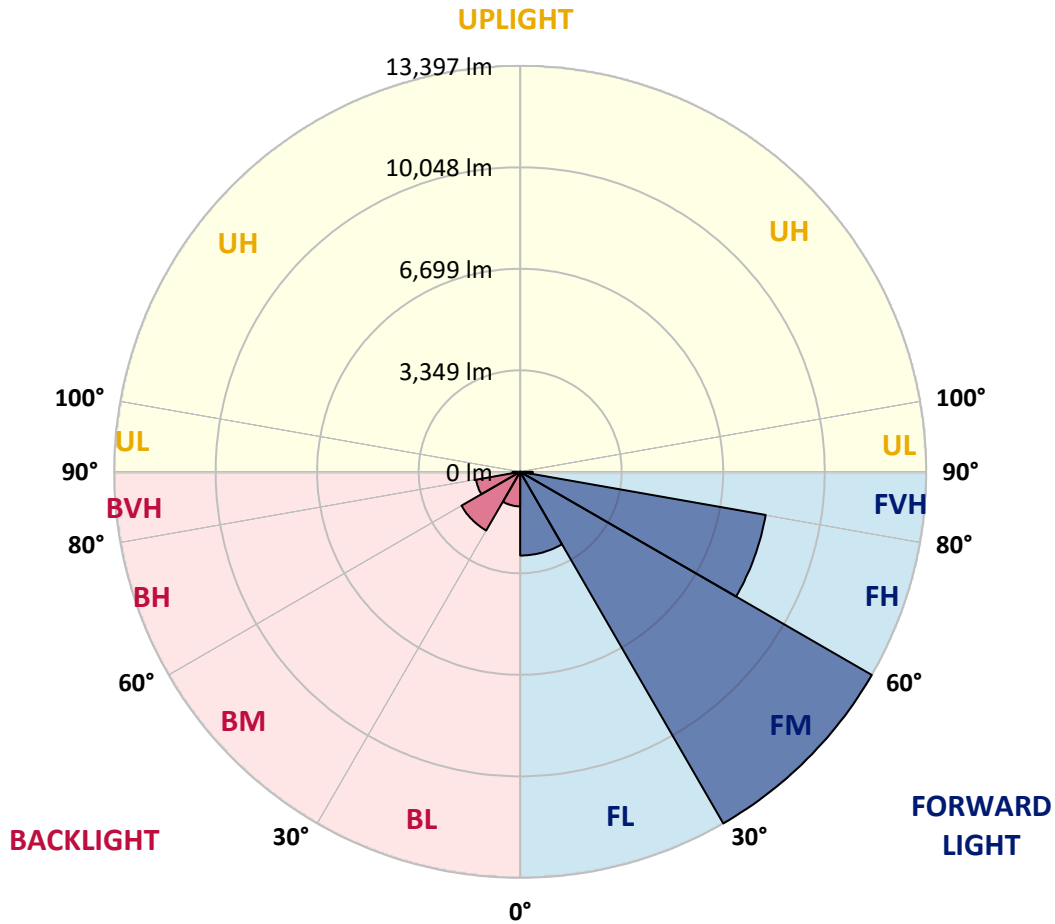


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2761.3	9.2			
FM (30°-60°)	13397.2	44.8			
FH (60°-80°)	8227.3	27.5			G4/12000
FVH (80°-90°)	415.0	1.4			G3/500
BL (0°-30°)	1139.9	3.8	B3/2500		
BM (30°-60°)	2236.7	7.5	B2/2500		
BH (60°-80°)	1478.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	251.8	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°	74°	75°	85°
0°	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6
2.5°	4201.5	4214.0	4189.0	4132.8	4051.5	3901.4	3770.1	3538.8	3332.5	3307.5	3088.6
5°	4939.3	4951.8	4920.6	4851.8	4764.3	4601.7	4420.4	4120.3	3788.9	3726.4	3263.7
7.5°	5445.8	5452.0	5414.5	5345.7	5276.9	5114.4	4933.1	4595.4	4189.0	4139.0	3488.8
10°	5877.2	5889.7	5839.6	5795.9	5720.9	5558.3	5370.7	5014.3	4595.4	4526.7	3720.1
12.5°	6277.3	6289.8	6258.6	6221.0	6196.0	6046.0	5839.6	5414.5	4964.3	4889.3	3995.2
15°	6546.2	6558.7	6564.9	6614.9	6646.2	6539.9	6333.6	5870.9	5364.5	5295.7	4320.3
17.5°	6471.1	6502.4	6596.2	6777.5	6971.3	6977.6	6808.8	6321.1	5758.4	5683.3	4651.7
20°	6252.3	6277.3	6389.8	6665.0	7046.3	7265.2	7252.7	6777.5	6127.3	6046.0	4958.1
22.5°	6433.6	6464.9	6464.9	6633.7	7008.8	7415.2	7577.8	7227.7	6496.1	6421.1	5264.4
25°	7208.9	7227.7	7096.4	7027.6	7165.1	7540.3	7846.6	7715.3	6946.3	6858.8	5595.8
27.5°	8290.5	8259.3	8096.7	7821.6	7671.6	7771.6	8084.2	8178.0	7465.2	7359.0	5939.7
30°	9365.9	9347.2	9159.6	8790.7	8453.1	8240.5	8346.8	8590.7	8028.0	7902.9	6271.1
32.5°	10372.6	10341.3	10135.0	9703.6	9322.2	8928.3	8722.0	8965.8	8628.2	8484.4	6639.9
35°	11297.9	11216.6	11010.3	10560.1	10166.2	9791.1	9284.7	9322.2	9278.4	9128.4	7046.3
37.5°	12048.2	11985.7	11760.6	11341.7	10922.8	10566.4	10034.9	9728.6	9978.7	9834.9	7515.3
40°	12710.9	12642.1	12410.8	11991.9	11604.3	11266.6	10847.7	10222.5	10766.5	10603.9	8040.5
42.5°	13211.1	13161.1	12973.5	12560.9	12185.7	11879.4	11673.0	10847.7	11585.5	11429.2	8615.7
45°	13480.0	13429.9	13329.9	12998.5	12654.7	12417.1	12435.8	11591.8	12442.1	12310.8	9297.2
47.5°	13148.6	13186.1	13273.6	13211.1	12998.5	12886.0	13117.3	12360.8	13398.7	13273.6	10034.9
50°	12260.8	12298.3	12648.4	13079.8	13154.8	13292.4	13730.0	13248.6	14411.5	14311.5	10947.8
52.5°	10078.7	10285.0	11254.1	12285.8	12992.3	13561.2	14411.5	14567.9	16118.4	16118.4	12560.9
55°	7615.3	7796.6	8903.3	10703.9	12360.8	13586.2	14911.7	15461.9	17350.1	17375.1	13404.9
57.5°	6171.0	6283.6	6827.5	8671.9	11035.3	13273.6	15505.7	16231.0	18375.5	18488.0	14492.8
60°	5008.1	5070.6	5427.0	6708.7	9203.4	12429.6	15930.9	17331.4	19838.5	19994.9	15880.8
62.5°	4026.5	4089.0	4326.6	5095.6	7221.4	10847.7	15855.8	18475.5	21789.3	22045.6	17700.3
65°	3213.7	3282.5	3438.8	3913.9	5352.0	8884.5	15086.8	19063.3	23808.8	24058.8	18907.0
67.5°	2507.2	2569.7	2676.0	2988.6	3770.1	6646.2	13267.4	18444.3	24715.3	24927.9	18969.5
70°	1894.4	1925.7	2013.2	2213.3	2694.7	4414.1	10385.1	16368.5	23902.5	24096.4	17719.0
72.5°	1469.3	1463.0	1513.1	1613.1	1881.9	3038.6	6883.8	13311.1	21132.8	21332.8	15118.1
75°	1200.4	1194.2	1225.5	1256.7	1363.0	2038.2	4064.0	10022.4	17056.3	16674.9	11341.7
77.5°	1012.9	1006.6	1037.9	1044.1	1087.9	1406.8	2313.4	6596.2	11379.2	10722.7	6389.8
80°	856.6	850.3	887.8	900.3	931.6	1031.6	1331.7	3570.1	5714.6	5414.5	3051.1
82.5°	644.0	669.0	737.8	769.0	806.5	762.8	825.3	1575.6	2651.0	2532.2	1325.5
85°	312.6	368.9	556.5	619.0	662.7	481.4	562.7	744.0	1194.2	1137.9	537.7
87.5°	106.3	93.8	331.4	393.9	431.4	218.8	312.6	412.7	493.9	450.2	168.8
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°	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6	2963.6
2.5°	2994.9	2901.1	2763.5	2657.2	2588.5	2532.2	2507.2	2500.9	2488.4	2482.2	2482.2
5°	3057.4	2888.6	2676.0	2563.4	2532.2	2507.2	2519.7	2525.9	2525.9	2525.9	2525.9
7.5°	3151.2	2913.6	2657.2	2582.2	2575.9	2575.9	2613.5	2632.2	2644.7	2644.7	2644.7
10°	3276.2	2957.3	2688.5	2626.0	2644.7	2657.2	2701.0	2726.0	2738.5	2744.8	2751.0
12.5°	3445.0	3051.1	2751.0	2701.0	2726.0	2732.3	2763.5	2776.0	2788.5	2794.8	2794.8
15°	3670.1	3188.7	2851.0	2788.5	2794.8	2788.5	2788.5	2776.0	2769.8	2769.8	2782.3
17.5°	3901.4	3320.0	2938.6	2851.0	2826.0	2776.0	2738.5	2707.2	2688.5	2676.0	2682.2
20°	4132.8	3438.8	2988.6	2863.6	2794.8	2713.5	2644.7	2601.0	2575.9	2550.9	2563.4
22.5°	4364.1	3551.3	3007.4	2826.0	2726.0	2607.2	2532.2	2463.4	2407.1	2369.6	2375.9
25°	4620.4	3676.4	3007.4	2782.3	2632.2	2507.2	2413.4	2300.8	2219.6	2188.3	2200.8
27.5°	4876.8	3782.6	2976.1	2701.0	2525.9	2400.9	2263.3	2132.0	2082.0	2063.3	2069.5
30°	5133.1	3863.9	2907.3	2601.0	2413.4	2275.8	2094.5	2007.0	1944.5	1894.4	1900.7
32.5°	5389.5	3920.2	2813.5	2475.9	2294.6	2119.5	1969.5	1869.4	1756.9	1694.4	1700.6
35°	5683.3	3964.0	2701.0	2350.9	2163.3	1982.0	1869.4	1706.9	1588.1	1538.1	1525.6
37.5°	5989.7	3995.2	2582.2	2213.3	2032.0	1881.9	1769.4	1569.3	1456.8	1388.0	1381.8
40°	6321.1	4007.7	2438.4	2069.5	1907.0	1819.4	1638.1	1488.0	1294.2	1250.5	1250.5
42.5°	6715.0	4001.5	2294.6	1925.7	1769.4	1675.6	1544.3	1475.5	1306.7	1263.0	1238.0
45°	7165.1	4001.5	2138.3	1756.9	1631.8	1494.3	1438.0	1394.3	1281.7	1300.5	1313.0
47.5°	7677.8	3989.0	1950.7	1619.3	1519.3	1400.5	1369.3	1275.5	1231.7	1244.2	1256.7
50°	8384.3	4007.7	1781.9	1506.8	1438.0	1338.0	1300.5	1250.5	1231.7	1238.0	1231.7
52.5°	9365.9	3945.2	1619.3	1438.0	1375.5	1244.2	1244.2	1238.0	1244.2	1238.0	1238.0
55°	9903.6	3807.6	1500.6	1400.5	1331.7	1200.4	1225.5	1238.0	1250.5	1244.2	1244.2
57.5°	10666.4	3713.9	1406.8	1375.5	1306.7	1187.9	1212.9	1238.0	1244.2	1238.0	1238.0
60°	11566.8	3651.3	1344.2	1381.8	1288.0	1187.9	1219.2	1238.0	1231.7	1225.5	1225.5
62.5°	12610.9	3626.3	1300.5	1400.5	1269.2	1194.2	1219.2	1238.0	1212.9	1206.7	1206.7
65°	13004.8	3401.3	1244.2	1413.0	1281.7	1194.2	1212.9	1219.2	1187.9	1181.7	1175.4
67.5°	12398.3	3013.6	1162.9	1388.0	1319.2	1194.2	1194.2	1187.9	1150.4	1144.2	1131.7
70°	11041.6	2500.9	1037.9	1306.7	1344.2	1200.4	1169.2	1137.9	1100.4	1100.4	1075.4
72.5°	9040.8	1969.5	875.3	1162.9	1325.5	1219.2	1119.2	1075.4	1031.6	1031.6	1006.6
75°	6514.9	1469.3	700.3	969.1	1244.2	1212.9	1056.6	1000.4	950.3	944.1	912.8
77.5°	3713.9	1031.6	569.0	756.5	1106.7	1181.7	1000.4	912.8	856.6	837.8	819.1
80°	1907.0	694.0	462.7	594.0	919.1	1094.2	956.6	812.8	750.3	719.0	687.8
82.5°	906.6	462.7	356.4	437.7	694.0	956.6	900.3	700.3	631.5	594.0	556.5
85°	406.4	275.1	237.6	281.4	493.9	744.0	794.0	575.2	493.9	619.0	456.4
87.5°	131.3	125.0	125.0	131.3	237.6	325.1	581.5	425.2	393.9	325.1	275.1
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)