

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: P236839

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2R-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-260-D-U-T2R-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28154 lumens  
Efficiency: N/A  
Efficacy: 107.9 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

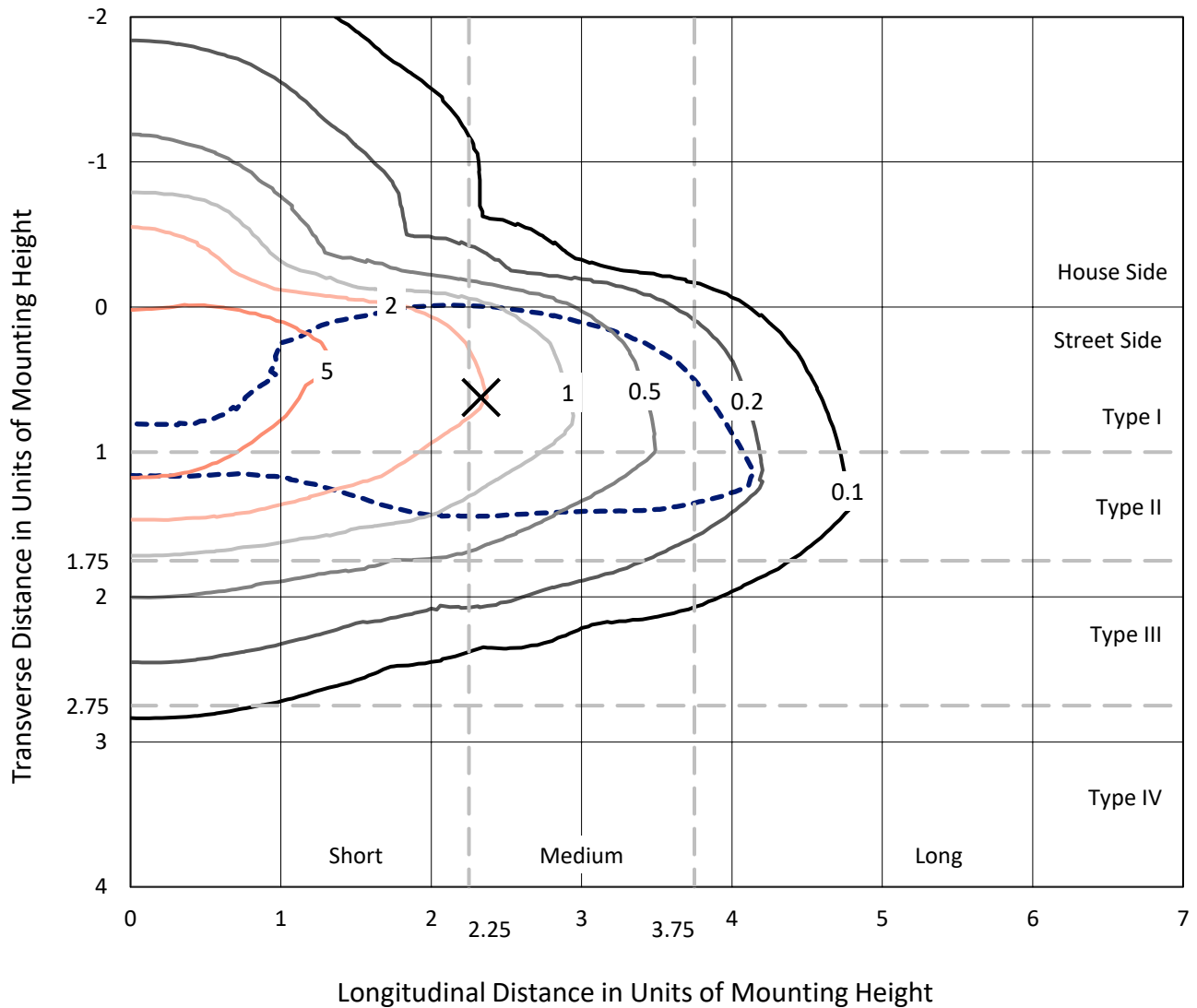
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

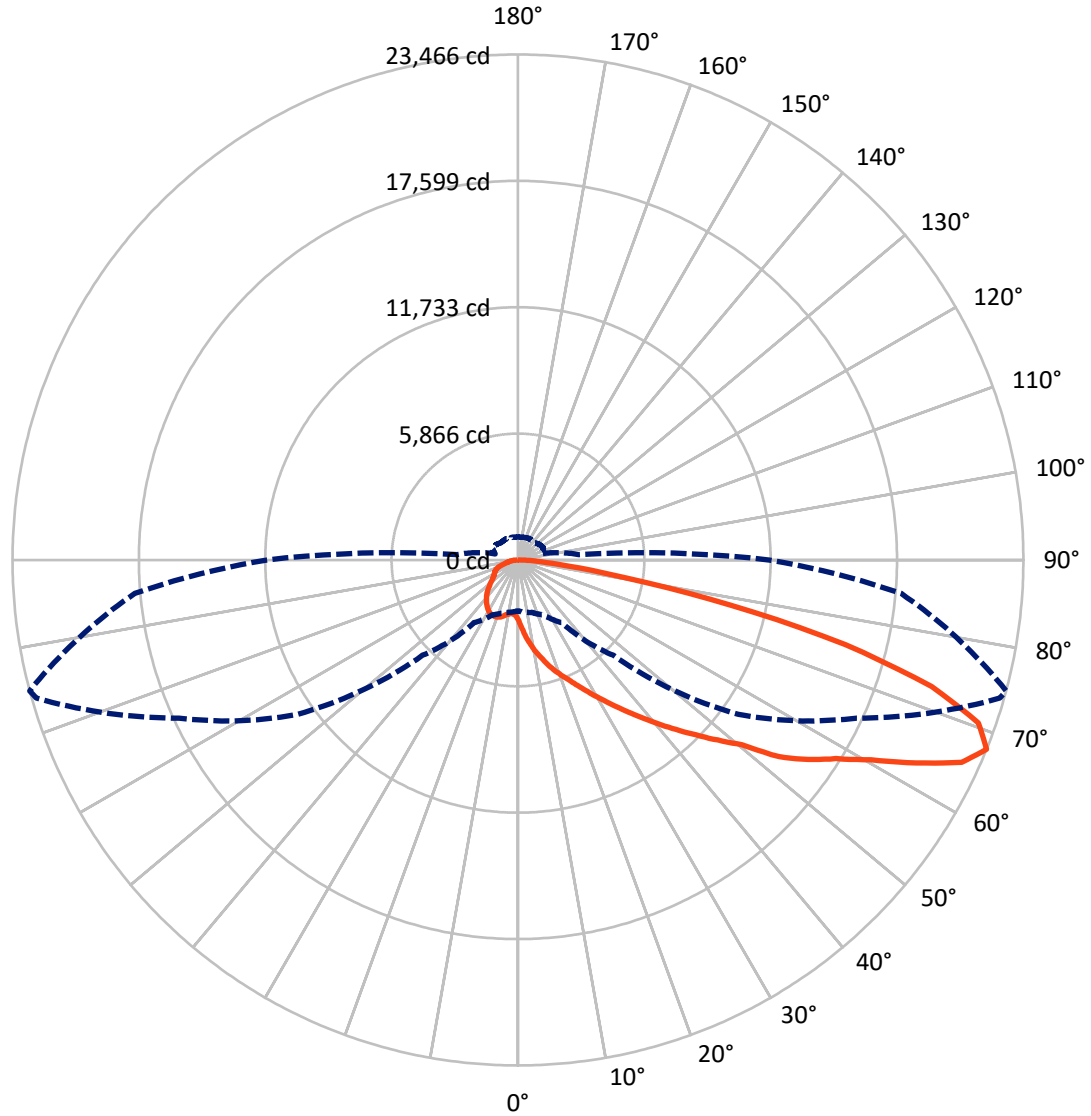
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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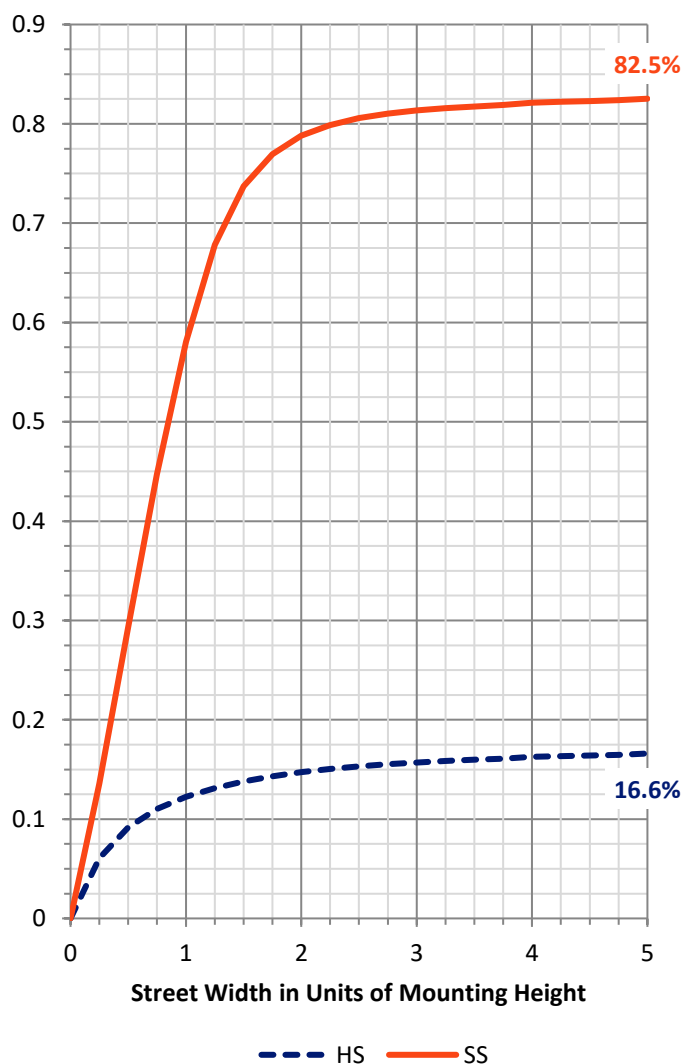
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4807.7	0.0	4807.7
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	23346.3	0.0	23346.3
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	28154.0	0.0	28154.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.7	1.2
10°-20°	1184.4	4.2
20°-30°	2160.3	7.7
30°-40°	3545.9	12.6
40°-50°	5127.9	18.2
50°-60°	6043.2	21.5
60°-70°	5872.5	20.9
70°-80°	3264.3	11.6
80°-90°	627.7	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°	28154.0	100.0
0°-180°	28154.0	100.0

**Coefficient of Utilization**



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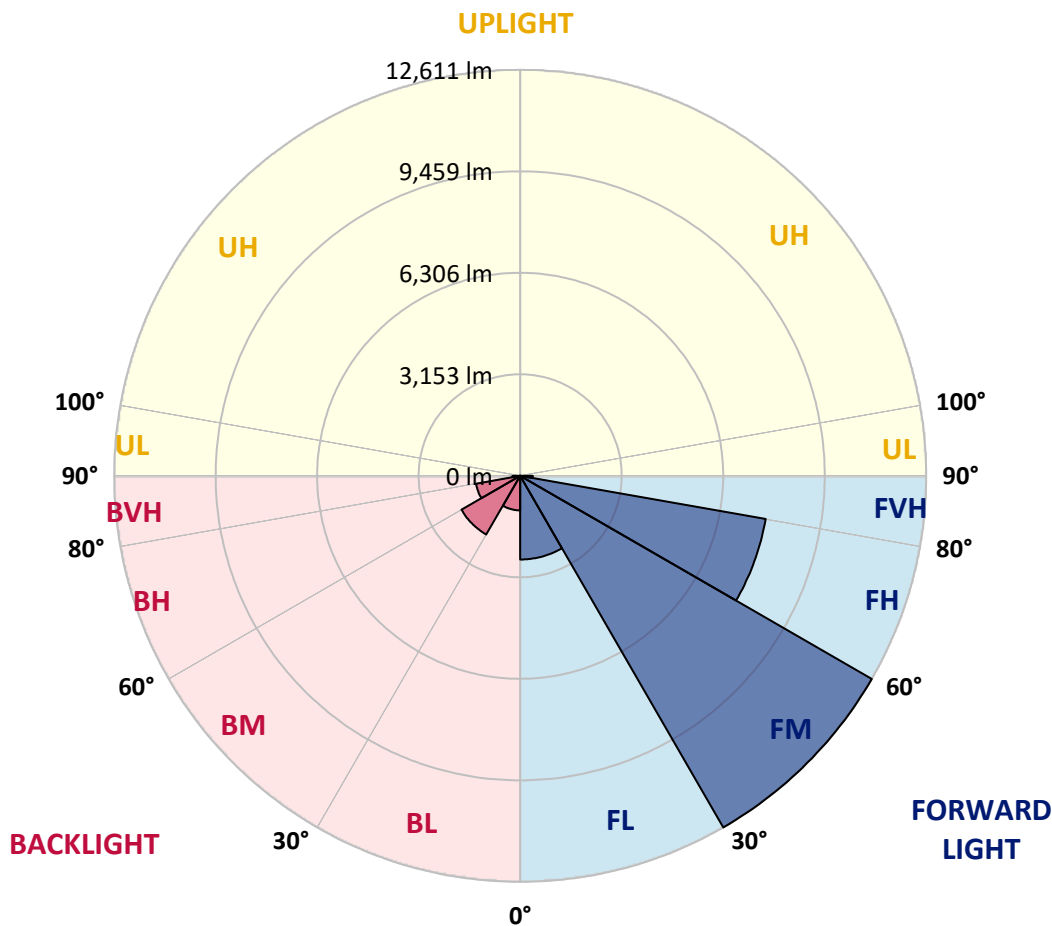
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.4	9.2			
FM (30°-60°)	12611.5	44.8			
FH (60°-80°)	7744.8	27.5			G4/12000
FVH (80°-90°)	390.6	1.4			G3/500
BL (0°-30°)	1073.1	3.8	B3/2500		
BM (30°-60°)	2105.5	7.5	B2/2500		
BH (60°-80°)	1392.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	237.0	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°	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8
2.5°	3955.0	3966.8	3943.3	3890.4	3813.9	3672.6	3549.1	3331.2	3137.1	3113.5	2907.5
5°	4649.6	4661.4	4631.9	4567.2	4484.9	4331.8	4161.1	3878.6	3566.7	3507.8	3072.3
7.5°	5126.3	5132.2	5097.0	5032.2	4967.5	4814.4	4643.7	4325.9	3943.3	3896.3	3284.2
10°	5532.5	5544.3	5497.2	5456.0	5385.3	5232.3	5055.8	4720.2	4325.9	4261.2	3502.0
12.5°	5909.2	5920.9	5891.5	5856.2	5832.6	5691.5	5497.2	5097.0	4673.1	4602.5	3760.9
15°	6162.2	6174.0	6179.9	6227.0	6256.4	6156.3	5962.2	5526.6	5049.9	4985.1	4066.9
17.5°	6091.6	6121.0	6209.3	6379.9	6562.4	6568.3	6409.4	5950.4	5420.7	5350.0	4378.9
20°	5885.6	5909.2	6015.0	6274.1	6633.1	6839.1	6827.3	6379.9	5767.9	5691.5	4667.3
22.5°	6056.2	6085.7	6085.7	6244.6	6597.7	6980.3	7133.3	6803.8	6115.1	6044.6	4955.7
25°	6786.1	6803.8	6680.1	6615.4	6744.9	7098.0	7386.5	7262.8	6538.9	6456.4	5267.6
27.5°	7804.3	7774.9	7621.8	7362.9	7221.6	7315.8	7610.1	7698.4	7027.4	6927.4	5591.4
30°	8816.6	8798.9	8622.4	8275.2	7957.4	7757.2	7857.3	8086.9	7557.1	7439.4	5903.3
32.5°	9764.2	9734.8	9540.5	9134.5	8775.4	8404.7	8210.4	8439.9	8122.2	7986.8	6250.5
35°	10635.3	10558.9	10364.6	9940.9	9570.0	9216.9	8740.0	8775.4	8734.3	8593.0	6633.1
37.5°	11341.5	11282.6	11070.8	10676.5	10282.2	9946.6	9446.4	9158.0	9393.4	9258.1	7074.5
40°	11965.4	11900.7	11683.0	11288.5	10923.7	10605.9	10211.5	9623.0	10135.0	9982.0	7568.9
42.5°	12436.3	12389.2	12212.7	11824.1	11471.0	11182.6	10988.4	10211.5	10906.0	10758.9	8110.4
45°	12689.4	12642.3	12548.1	12236.2	11912.4	11688.8	11706.5	10911.9	11712.4	11588.8	8751.8
47.5°	12377.4	12412.7	12495.1	12436.3	12236.2	12130.3	12348.1	11635.9	12612.9	12495.1	9446.4
50°	11541.7	11577.0	11906.6	12312.7	12383.3	12512.8	12924.9	12471.6	13566.2	13472.1	10305.7
52.5°	9487.6	9681.8	10594.1	11565.2	12230.3	12765.9	13566.2	13713.4	15173.1	15173.1	11824.1
55°	7168.7	7339.4	8381.1	10076.1	11635.9	12789.5	14037.2	14555.1	16332.5	16356.1	12618.8
57.5°	5809.1	5915.1	6427.0	8163.3	10388.2	12495.1	14596.3	15279.1	17297.8	17403.7	13642.8
60°	4714.3	4773.2	5108.8	6315.3	8663.6	11700.6	14996.5	16314.9	18675.0	18822.2	14949.4
62.5°	3790.3	3849.2	4072.8	4796.8	6797.9	10211.5	14925.9	17392.0	20511.4	20752.7	16662.1
65°	3025.2	3090.0	3237.2	3684.4	5038.1	8363.5	14201.9	17945.2	22412.4	22647.8	17798.2
67.5°	2360.1	2419.0	2519.1	2813.3	3549.1	6256.4	12489.2	17362.5	23265.7	23465.9	17856.9
70°	1783.3	1812.7	1895.2	2083.5	2536.7	4155.2	9776.0	15408.5	22500.7	22683.1	16679.8
72.5°	1383.1	1377.2	1424.3	1518.4	1771.5	2860.4	6480.0	12530.5	19893.4	20081.8	14231.3
75°	1130.1	1124.2	1153.6	1183.1	1283.0	1918.7	3825.6	9434.6	16055.9	15697.0	10676.5
77.5°	953.5	947.6	977.0	982.9	1024.1	1324.2	2177.6	6209.3	10711.8	10093.8	6015.0
80°	806.4	800.5	835.8	847.6	877.0	971.1	1253.6	3360.7	5379.5	5097.0	2872.2
82.5°	606.2	629.8	694.5	724.0	759.3	718.1	777.0	1483.2	2495.5	2383.7	1247.7
85°	294.2	347.2	523.8	582.7	623.9	453.2	529.7	700.4	1124.2	1071.2	506.2
87.5°	100.1	88.3	311.9	370.8	406.1	206.0	294.2	388.4	465.0	423.8	158.9
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°	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8	2789.8
2.5°	2819.2	2730.9	2601.5	2501.4	2436.6	2383.7	2360.1	2354.2	2342.5	2336.6	2336.6
5°	2878.1	2719.1	2519.1	2413.1	2383.7	2360.1	2371.9	2377.8	2377.8	2377.8	2377.8
7.5°	2966.4	2742.7	2501.4	2430.8	2424.9	2424.9	2460.2	2477.9	2489.6	2489.6	2489.6
10°	3084.1	2783.9	2530.8	2472.0	2489.6	2501.4	2542.6	2566.2	2577.9	2583.8	2589.7
12.5°	3243.0	2872.2	2589.7	2542.6	2566.2	2572.0	2601.5	2613.3	2625.0	2630.9	2630.9
15°	3454.9	3001.7	2683.9	2625.0	2630.9	2625.0	2625.0	2613.3	2607.4	2607.4	2619.1
17.5°	3672.6	3125.3	2766.2	2683.9	2660.3	2613.3	2577.9	2548.5	2530.8	2519.1	2524.9
20°	3890.4	3237.2	2813.3	2695.7	2630.9	2554.4	2489.6	2448.4	2424.9	2401.3	2413.1
22.5°	4108.1	3343.0	2831.0	2660.3	2566.2	2454.3	2383.7	2318.9	2265.9	2230.6	2236.5
25°	4349.5	3460.8	2831.0	2619.1	2477.9	2360.1	2271.8	2165.9	2089.4	2060.0	2071.8
27.5°	4590.7	3560.8	2801.5	2542.6	2377.8	2260.0	2130.5	2007.0	1959.9	1942.3	1948.1
30°	4832.1	3637.3	2736.8	2448.4	2271.8	2142.3	1971.7	1889.3	1830.4	1783.3	1789.2
32.5°	5073.4	3690.2	2648.6	2330.7	2160.0	1995.2	1854.0	1759.8	1653.8	1594.9	1600.8
35°	5350.0	3731.4	2542.6	2212.9	2036.4	1865.7	1759.8	1606.7	1495.0	1447.9	1436.1
37.5°	5638.5	3760.9	2430.8	2083.5	1912.8	1771.5	1665.6	1477.3	1371.3	1306.6	1300.7
40°	5950.4	3772.7	2295.4	1948.1	1795.1	1712.7	1541.9	1400.8	1218.4	1177.2	1177.2
42.5°	6321.2	3766.8	2160.0	1812.7	1665.6	1577.3	1453.7	1389.0	1230.0	1188.8	1165.4
45°	6744.9	3766.8	2012.9	1653.8	1536.1	1406.7	1353.7	1312.5	1206.5	1224.2	1235.9
47.5°	7227.5	3755.0	1836.3	1524.3	1430.2	1318.3	1288.9	1200.6	1159.5	1171.3	1183.1
50°	7892.6	3772.7	1677.3	1418.4	1353.7	1259.5	1224.2	1177.2	1159.5	1165.4	1159.5
52.5°	8816.6	3713.8	1524.3	1353.7	1294.8	1171.3	1171.3	1165.4	1171.3	1165.4	1165.4
55°	9322.8	3584.4	1412.5	1318.3	1253.6	1130.1	1153.6	1165.4	1177.2	1171.3	1171.3
57.5°	10040.8	3496.1	1324.2	1294.8	1230.0	1118.3	1141.8	1165.4	1171.3	1165.4	1165.4
60°	10888.3	3437.2	1265.4	1300.7	1212.4	1118.3	1147.7	1165.4	1159.5	1153.6	1153.6
62.5°	11871.2	3413.7	1224.2	1318.3	1194.8	1124.2	1147.7	1165.4	1141.8	1136.0	1136.0
65°	12242.1	3201.8	1171.3	1330.1	1206.5	1124.2	1141.8	1147.7	1118.3	1112.4	1106.5
67.5°	11671.2	2836.9	1094.7	1306.6	1241.8	1124.2	1124.2	1118.3	1083.0	1077.1	1065.3
70°	10394.0	2354.2	977.0	1230.0	1265.4	1130.1	1100.6	1071.2	1035.9	1035.9	1012.3
72.5°	8510.6	1854.0	824.1	1094.7	1247.7	1147.7	1053.5	1012.3	971.1	971.1	947.6
75°	6132.8	1383.1	659.2	912.4	1171.3	1141.8	994.7	941.7	894.7	888.8	859.4
77.5°	3496.1	971.1	535.6	712.2	1041.8	1112.4	941.7	859.4	806.4	788.7	771.1
80°	1795.1	653.3	435.5	559.1	865.3	1030.0	900.6	765.2	706.3	676.9	647.5
82.5°	853.5	435.5	335.4	412.0	653.3	900.6	847.6	659.2	594.5	559.1	523.8
85°	382.5	259.0	223.7	264.9	465.0	700.4	747.5	541.5	465.0	582.7	429.6
87.5°	123.6	117.7	117.7	123.6	223.7	306.0	547.4	400.2	370.8	306.0	259.0
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)