

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: McGRAW-EDISON

Report Number: P648339

Luminaire Tested: **GALN-SA3B-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13554.5 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

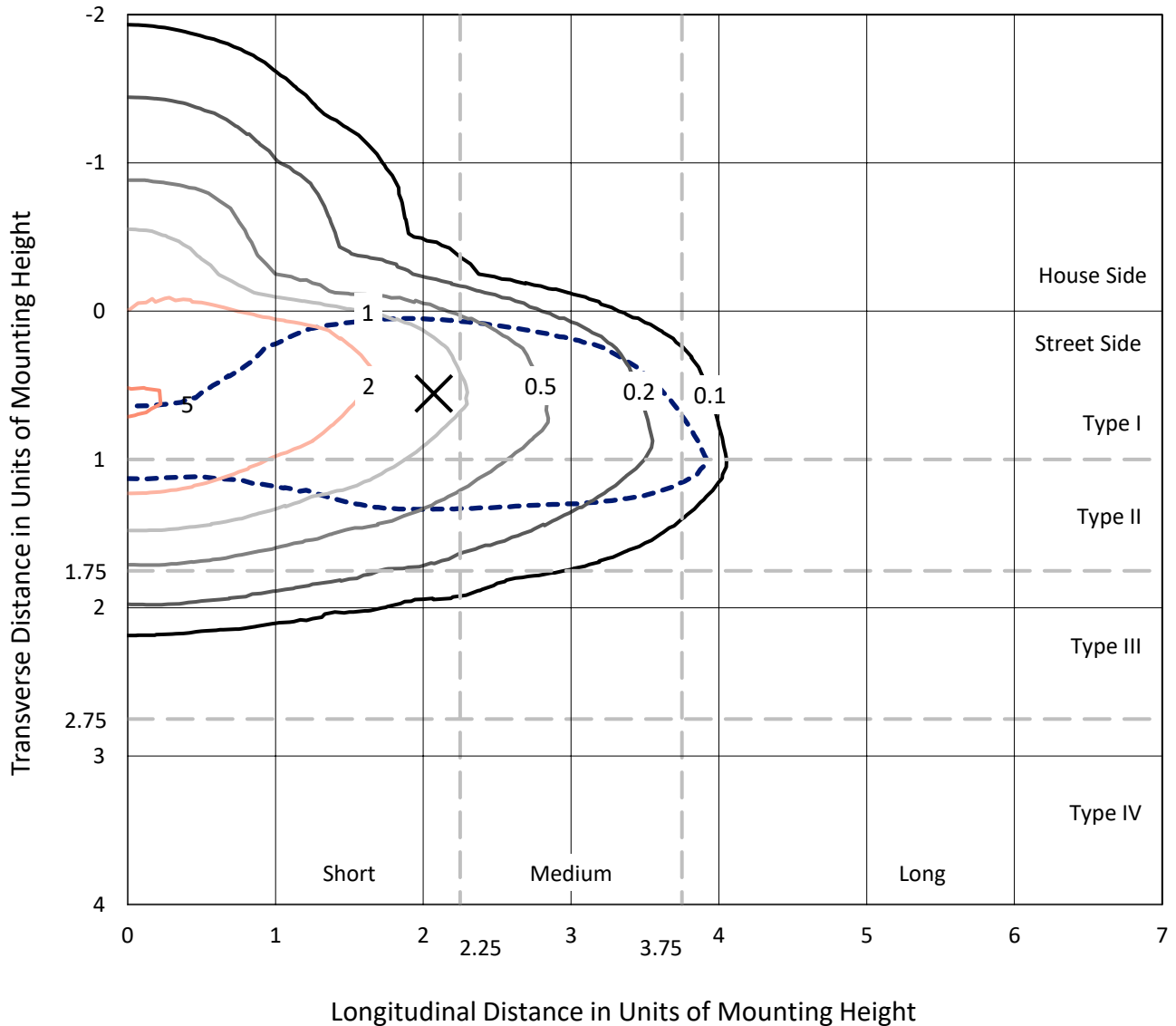
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

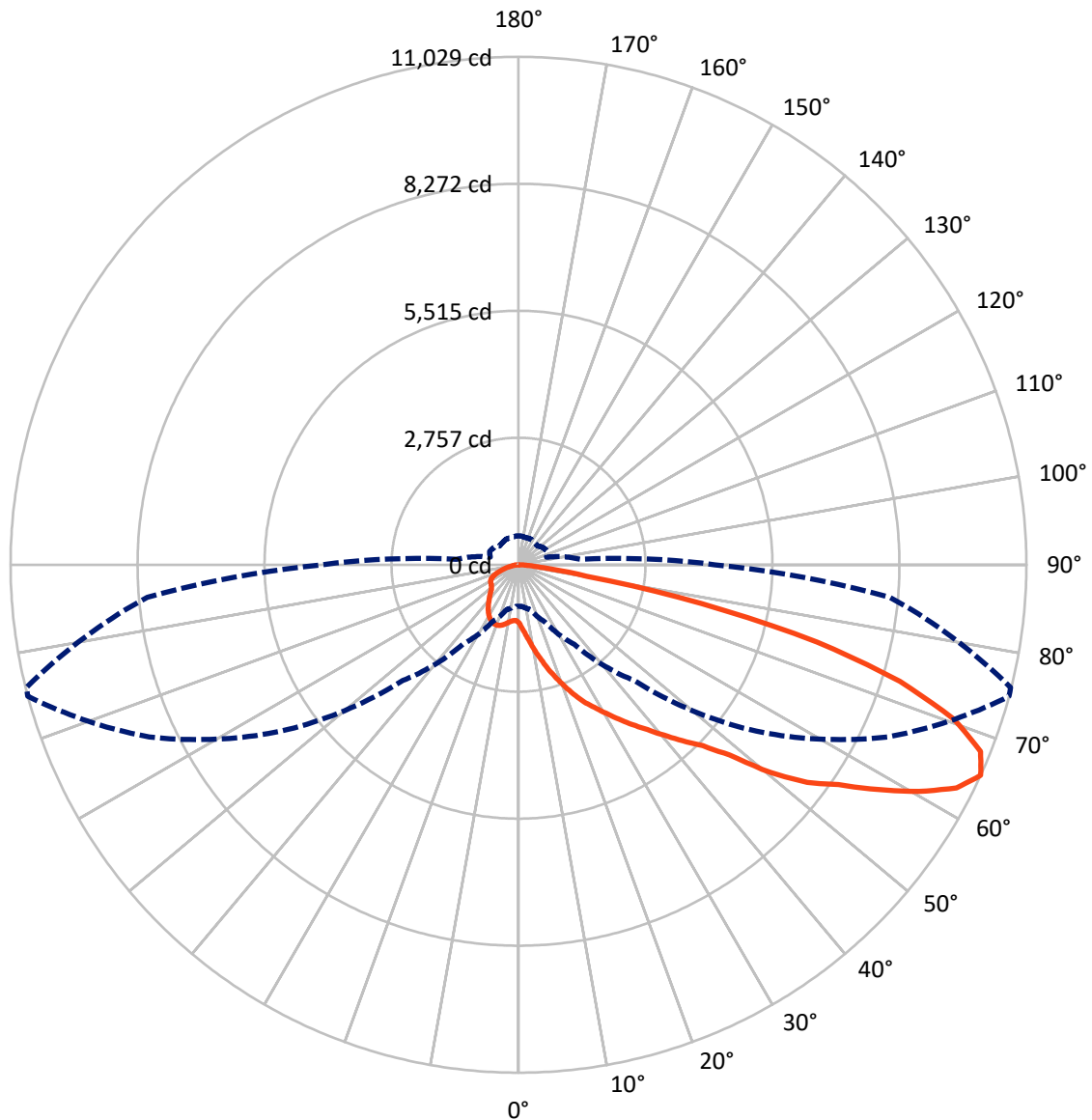
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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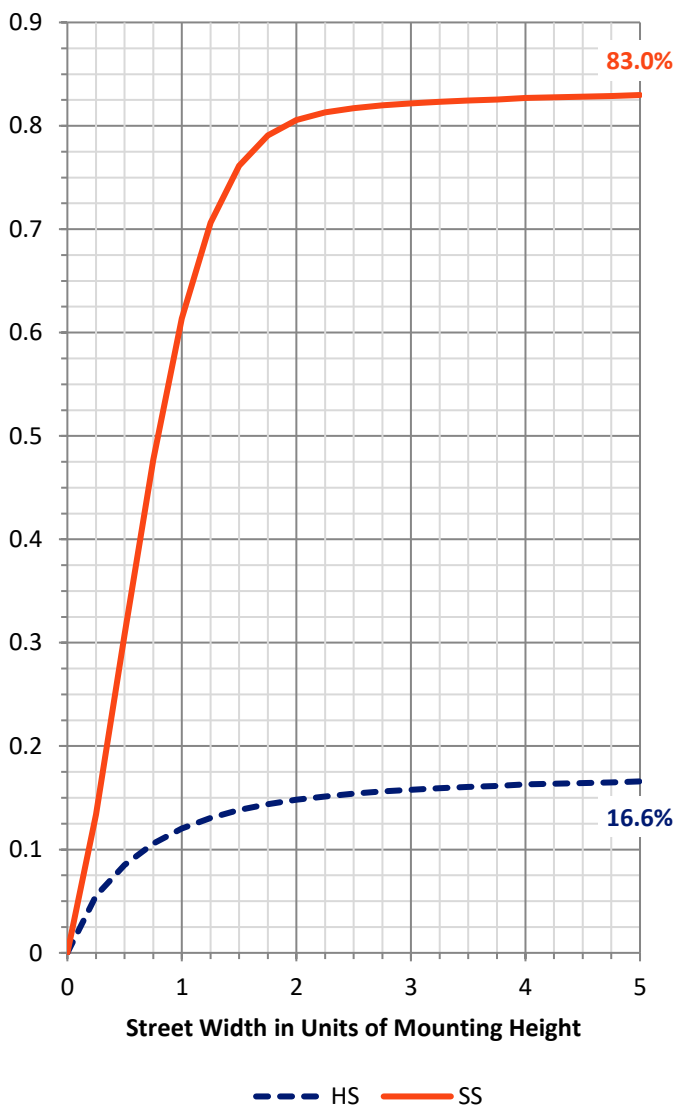
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2278.7	0.0	2278.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	11275.8	0.0	11275.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	13554.5	0.0	13554.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.0	1.1
10°-20°	599.3	4.4
20°-30°	1157.7	8.5
30°-40°	1880.4	13.9
40°-50°	2586.7	19.1
50°-60°	3054.0	22.5
60°-70°	2675.8	19.7
70°-80°	1277.5	9.4
80°-90°	170.0	1.3
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°	13554.5	100.0
0°-180°	13554.5	100.0

**Coefficient of Utilization**

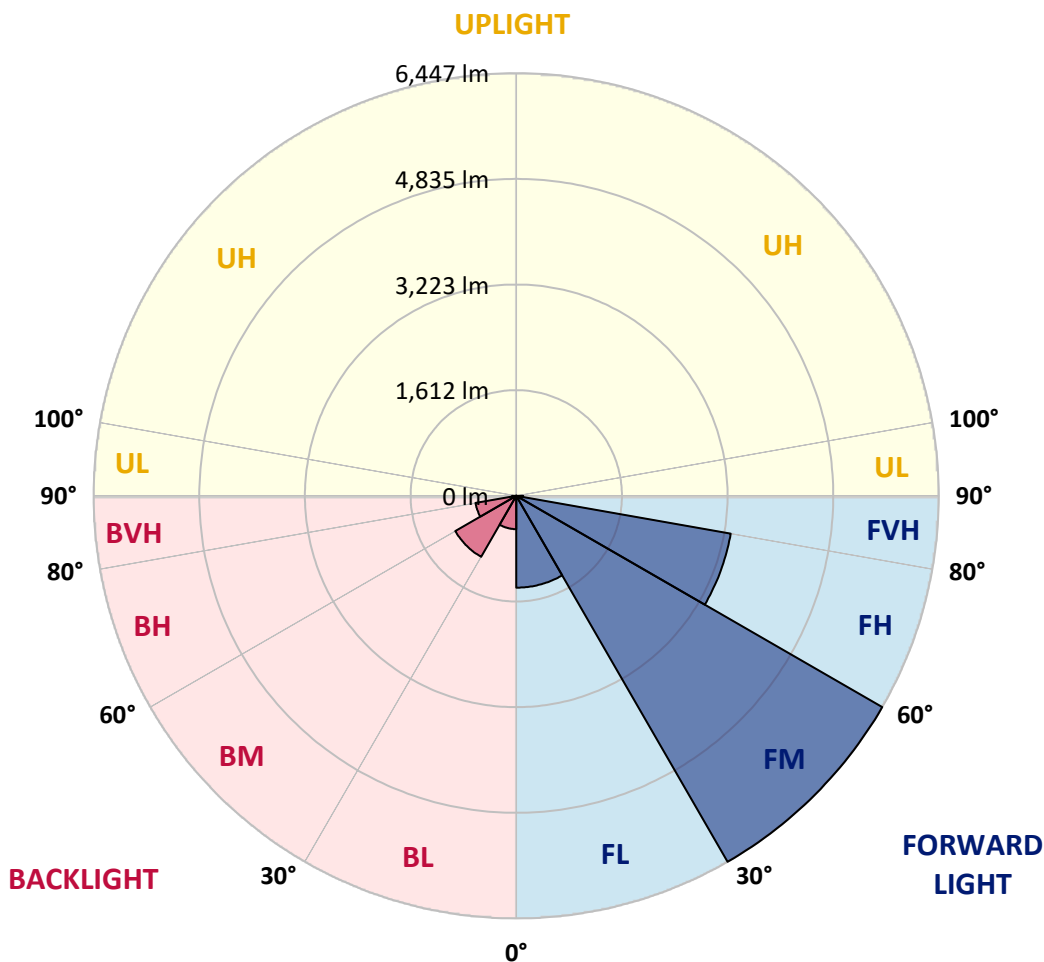


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1401.3	10.3			
FM (30°-60°)	6446.8	47.6			
FH (60°-80°)	3321.5	24.5			G2/5000
FVH (80°-90°)	106.2	0.8			G2/225
BL (0°-30°)	508.7	3.8	B2/1000		
BM (30°-60°)	1074.4	7.9	B2/2500		
BH (60°-80°)	631.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	63.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4
2.5°	1673.3	1662.3	1650.5	1618.1	1583.6	1544.6	1488.8	1435.1	1363.8	1361.6	1308.6
5°	2137.2	2129.8	2077.7	2047.5	1967.4	1860.8	1770.4	1629.9	1499.8	1484.3	1381.4
7.5°	2563.6	2535.0	2515.1	2460.7	2381.3	2244.5	2069.5	1879.9	1662.3	1641.7	1471.1
10°	2884.9	2882.0	2871.7	2824.6	2765.1	2629.1	2435.0	2163.0	1868.2	1827.7	1579.9
12.5°	3125.3	3127.5	3126.0	3125.3	3082.7	2967.3	2756.9	2470.3	2076.2	2047.5	1705.6
15°	3283.4	3305.4	3314.3	3351.0	3354.7	3277.5	3096.6	2767.3	2310.7	2268.0	1840.9
17.5°	3387.8	3398.8	3440.0	3502.4	3553.2	3539.2	3378.2	3042.2	2550.4	2479.1	1981.4
20°	3487.7	3506.9	3538.5	3623.8	3713.5	3754.6	3641.4	3323.8	2787.9	2742.3	2136.5
22.5°	3695.8	3723.0	3734.0	3777.4	3853.8	3926.7	3875.2	3593.7	3048.1	2986.4	2301.2
25°	4048.0	4076.6	4045.8	4035.5	4060.5	4096.5	4085.5	3848.0	3293.7	3205.4	2457.0
27.5°	4506.7	4510.4	4450.1	4392.8	4331.0	4312.6	4278.9	4073.7	3506.9	3433.4	2613.6
30°	4999.3	4981.7	4881.7	4778.0	4673.6	4570.7	4473.7	4291.3	3744.3	3659.8	2767.3
32.5°	5456.6	5447.0	5336.1	5175.0	4998.6	4901.5	4705.2	4511.2	3998.7	3917.1	2925.4
35°	5799.2	5813.1	5691.2	5515.5	5322.8	5236.8	4989.0	4742.0	4261.9	4172.9	3097.4
37.5°	6042.6	6035.2	5927.2	5774.9	5605.8	5530.9	5320.6	4994.1	4544.9	4459.7	3285.5
40°	6129.3	6124.9	6044.8	5933.7	5826.4	5799.9	5667.6	5266.2	4869.2	4769.2	3512.0
42.5°	6074.2	6083.8	6030.8	6000.7	5980.8	5999.9	6012.4	5622.7	5222.8	5130.9	3757.5
45°	5905.1	5899.9	5892.5	5941.8	6053.6	6179.3	6353.6	5959.5	5607.3	5533.8	4086.9
47.5°	5602.9	5639.6	5658.0	5794.0	6038.1	6335.9	6746.1	6410.9	6165.3	6101.4	4589.1
50°	5180.2	5209.6	5318.4	5560.2	5924.2	6394.7	7129.9	7149.0	7096.1	6976.2	5134.6
52.5°	4519.9	4565.5	4789.8	5233.1	5690.4	6370.4	7362.2	7782.0	7851.8	7762.2	5672.1
55°	3781.1	3845.1	4081.8	4663.3	5368.4	6238.1	7522.5	8148.9	8427.5	8344.4	6189.6
57.5°	3057.7	3125.3	3368.6	3931.8	4806.7	5945.5	7627.6	8557.6	9211.2	9103.2	6833.6
60°	2291.6	2362.2	2571.0	3151.0	4006.8	5373.5	7556.3	8912.0	9994.2	9947.9	7478.4
62.5°	1478.5	1556.4	1738.0	2218.1	3079.7	4592.0	7174.8	9107.5	10672.1	10616.1	7948.9
65°	900.6	909.5	1009.4	1377.0	2107.8	3555.4	6302.1	8848.1	11029.3	11012.4	8092.3
67.5°	582.2	596.3	641.8	824.9	1263.8	2469.5	5039.0	7991.5	10820.6	10814.7	7796.0
70°	491.9	496.3	516.9	556.6	734.5	1497.6	3538.5	6626.3	10027.3	10027.3	7083.6
72.5°	439.7	445.5	452.9	465.4	524.2	848.4	2111.4	5158.1	8657.6	8714.9	6029.3
75°	399.2	397.8	402.1	404.3	447.0	554.4	1091.7	3814.9	6697.6	6582.9	4366.3
77.5°	341.9	344.1	341.9	351.4	394.8	422.0	554.4	2559.9	4059.0	3910.5	2191.6
80°	280.9	284.5	288.2	294.1	337.5	320.6	333.0	1166.7	1501.2	1469.6	677.1
82.5°	211.0	216.1	222.1	236.0	265.4	211.7	210.2	498.5	541.8	496.3	249.2
85°	85.3	100.7	152.2	166.2	166.9	116.2	129.4	208.0	221.3	216.1	97.8
87.5°	19.9	23.5	49.3	74.2	68.4	43.4	47.8	67.7	77.2	71.3	33.1
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°	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4	1259.4
2.5°	1284.4	1258.7	1214.5	1180.7	1156.5	1135.1	1121.9	1113.8	1110.8	1110.1	1110.8
5°	1327.7	1282.2	1212.3	1168.2	1144.0	1130.0	1121.9	1121.2	1121.9	1122.7	1120.5
7.5°	1387.3	1321.9	1230.7	1189.5	1171.1	1160.9	1157.2	1155.7	1156.5	1155.7	1155.7
10°	1466.7	1377.0	1266.7	1224.1	1208.6	1196.9	1191.0	1187.3	1184.4	1181.5	1180.0
12.5°	1554.2	1438.1	1305.7	1264.5	1242.5	1224.1	1210.8	1201.3	1194.7	1188.0	1186.6
15°	1652.0	1502.7	1349.1	1291.7	1260.1	1232.9	1210.1	1194.7	1183.0	1173.4	1172.6
17.5°	1745.4	1563.7	1378.5	1304.2	1257.9	1219.7	1189.5	1168.2	1153.5	1141.0	1139.6
20°	1845.3	1621.8	1391.7	1296.2	1235.9	1189.5	1149.8	1124.1	1107.2	1093.2	1091.0
22.5°	1946.1	1671.1	1390.2	1270.4	1197.6	1143.3	1101.3	1074.1	1054.2	1040.3	1035.1
25°	2042.4	1710.8	1371.9	1229.2	1144.7	1088.1	1045.5	1020.5	1002.8	985.9	985.9
27.5°	2129.1	1734.3	1337.3	1179.3	1090.3	1030.7	996.9	974.1	957.9	947.0	940.3
30°	2214.4	1745.4	1290.2	1116.0	1032.9	982.2	955.0	941.8	927.1	914.5	913.1
32.5°	2290.8	1743.1	1231.4	1054.2	978.5	942.5	931.5	921.2	905.8	888.1	883.7
35°	2365.1	1728.5	1161.6	986.7	932.9	919.0	921.9	907.3	879.3	857.2	853.5
37.5°	2446.0	1702.0	1085.2	931.5	894.7	908.0	915.3	883.0	837.4	802.8	794.7
40°	2539.3	1671.9	1005.8	876.3	864.6	897.7	897.7	838.1	775.6	754.3	748.4
42.5°	2648.9	1646.8	939.6	830.1	839.6	872.7	869.0	778.5	752.9	741.8	738.8
45°	2822.4	1638.0	871.2	789.6	819.0	843.3	813.1	758.0	743.3	734.5	731.5
47.5°	3096.6	1648.3	811.0	759.4	795.4	813.9	750.7	744.0	733.7	721.2	719.7
50°	3351.0	1638.7	768.3	742.5	774.9	778.5	724.9	727.1	721.2	707.3	704.3
52.5°	3559.0	1608.6	741.1	733.7	757.2	716.8	700.6	708.7	706.5	688.9	685.9
55°	3787.7	1590.2	727.9	733.7	745.5	663.1	677.8	689.6	686.7	674.2	673.5
57.5°	4064.9	1593.9	718.2	735.9	733.7	636.0	655.1	669.0	668.3	664.6	664.6
60°	4348.7	1595.4	703.6	735.2	719.7	614.7	631.6	651.4	652.9	655.1	655.1
62.5°	4442.7	1531.4	674.9	721.9	688.9	594.1	609.5	636.7	635.2	641.1	641.8
65°	4267.0	1354.2	632.3	691.8	649.2	579.3	592.6	617.6	609.5	624.9	627.9
67.5°	3884.0	1120.5	566.1	637.4	605.1	563.9	581.5	591.1	576.4	606.5	607.3
70°	3356.9	874.8	482.2	560.2	555.1	547.7	572.7	558.0	537.5	574.2	566.8
72.5°	2807.0	668.3	385.2	458.1	488.2	523.4	557.3	515.4	486.7	497.8	484.5
75°	2108.5	494.1	309.5	358.8	406.5	488.9	543.3	463.9	419.8	409.5	406.5
77.5°	1074.8	322.8	231.6	268.3	305.1	441.8	524.2	403.6	347.7	331.6	324.2
80°	383.7	200.7	163.2	185.3	205.9	380.1	458.1	333.8	269.8	266.8	269.8
82.5°	177.9	129.4	109.5	121.3	122.1	253.6	349.2	249.2	205.1	311.7	263.2
85°	76.5	64.7	61.8	60.3	55.9	113.2	196.3	133.8	208.8	93.3	86.1
87.5°	22.8	25.8	22.8	16.9	12.5	12.5	19.9	7.4	5.2	3.7	3.7
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)