

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: P647355

Luminaire Tested: **GALN-SA3D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15784.5 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

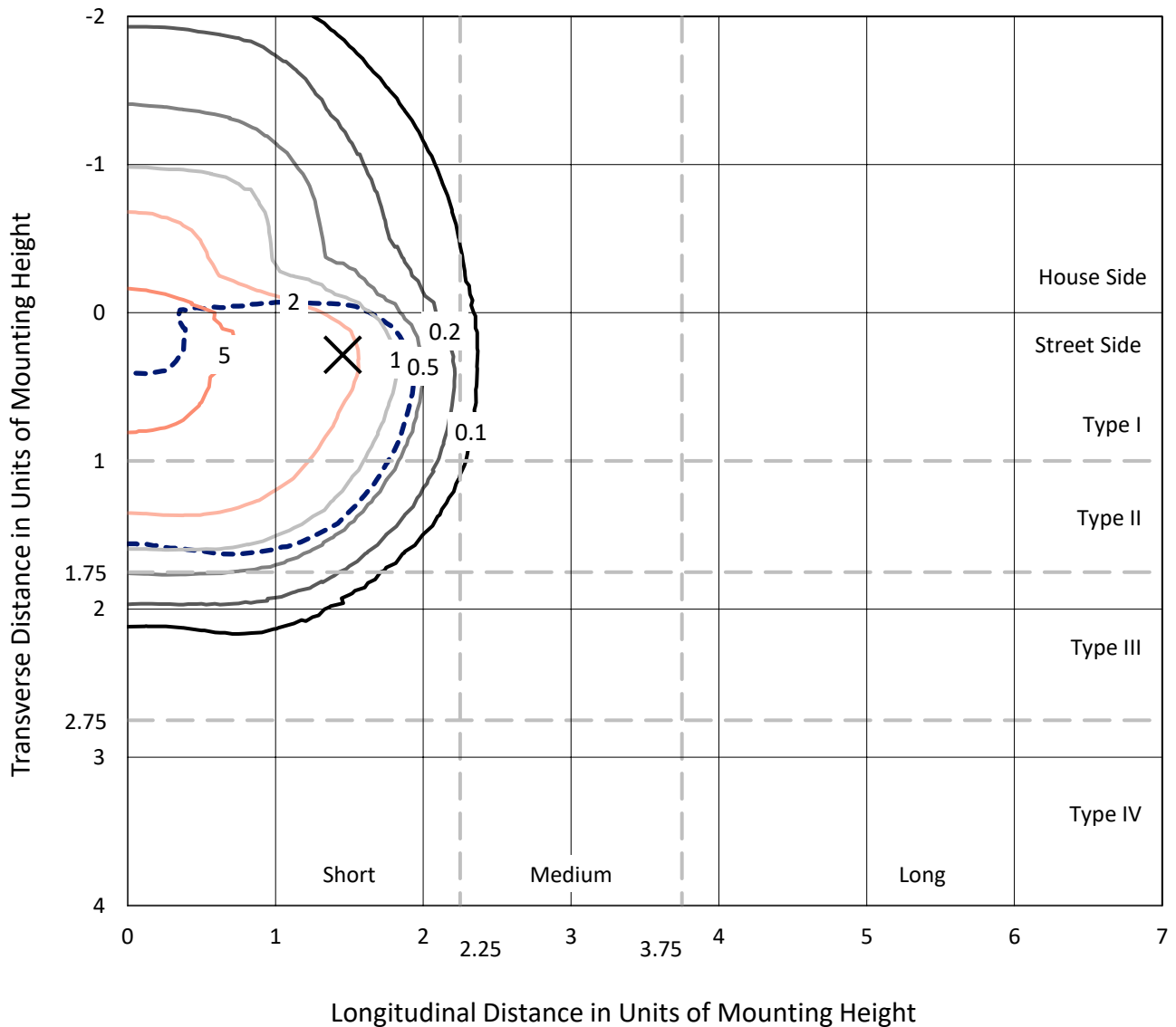
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

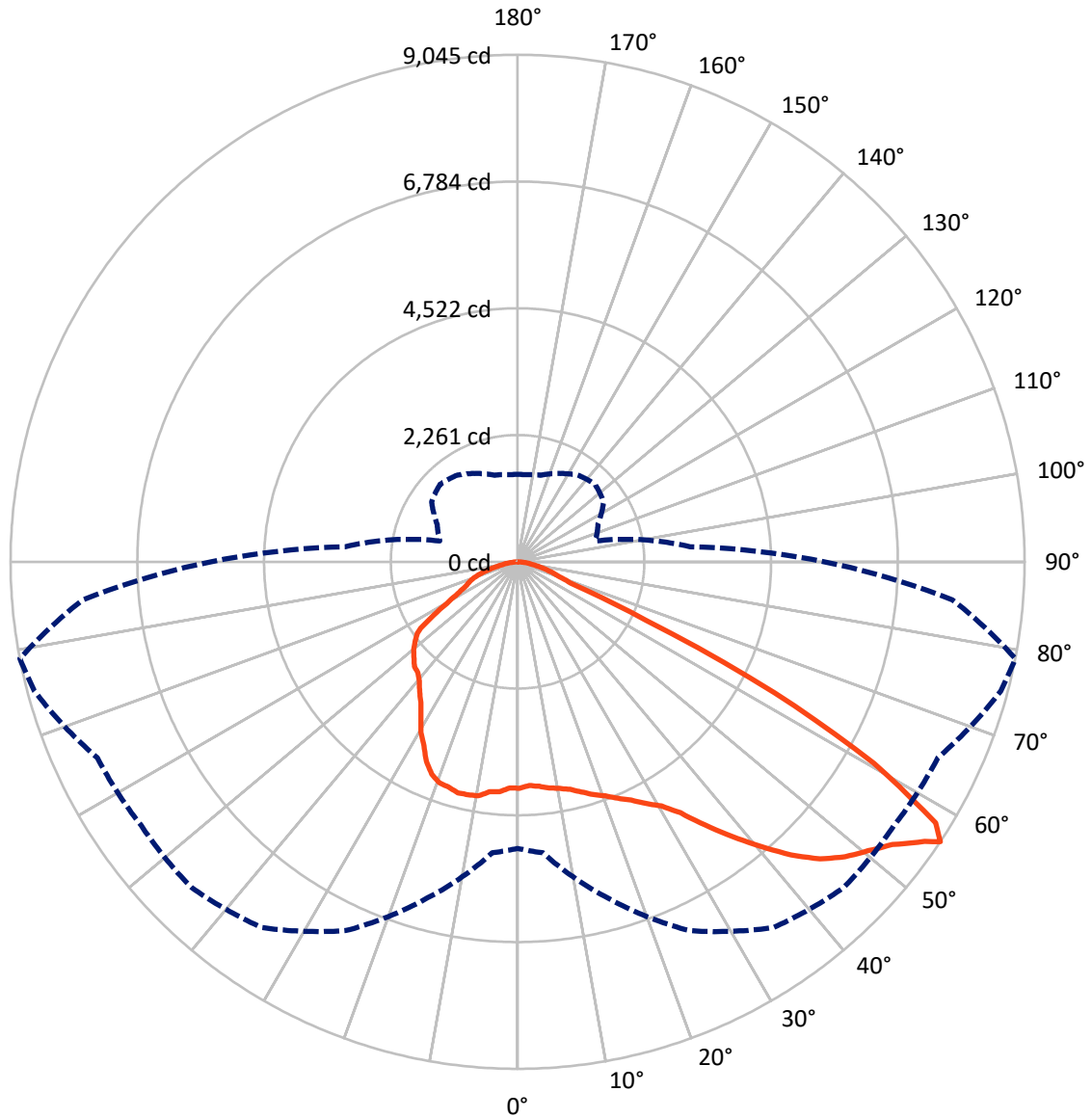
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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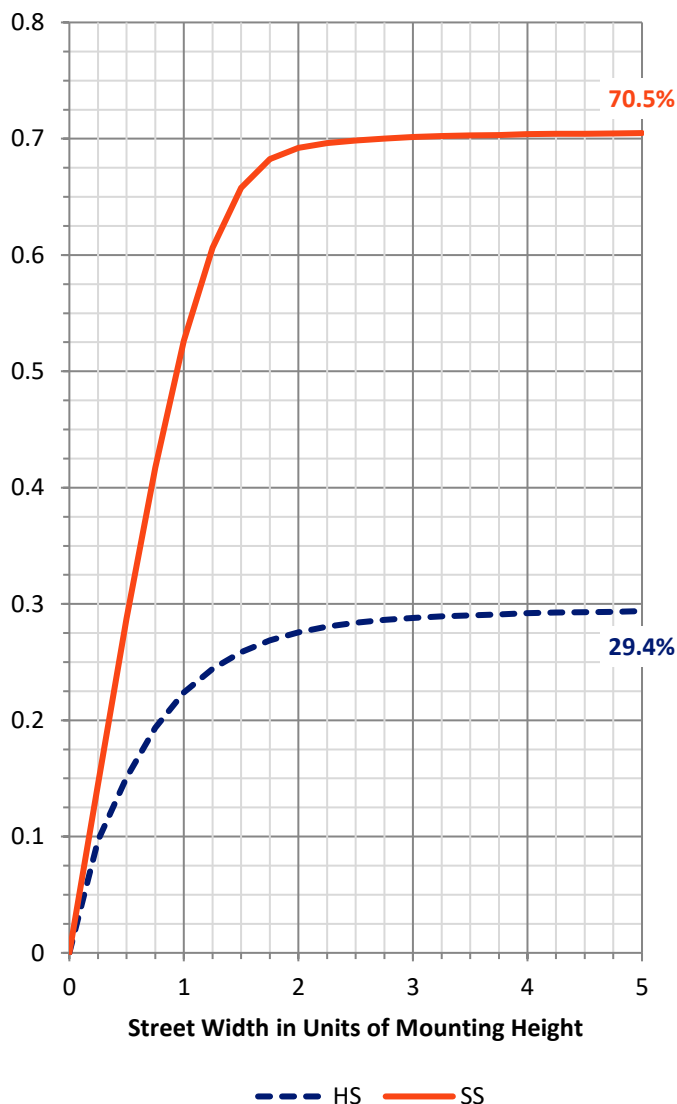
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4661.5	0.0	4661.5
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	11123.0	0.0	11123.0
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	15784.5	0.0	15784.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.2	2.3
10°-20°	1004.9	6.4
20°-30°	1719.2	10.9
30°-40°	2634.9	16.7
40°-50°	3561.0	22.6
50°-60°	4089.9	25.9
60°-70°	1864.3	11.8
70°-80°	459.6	2.9
80°-90°	83.5	0.5
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°	15784.5	100.0
0°-180°	15784.5	100.0

**Coefficient of Utilization**



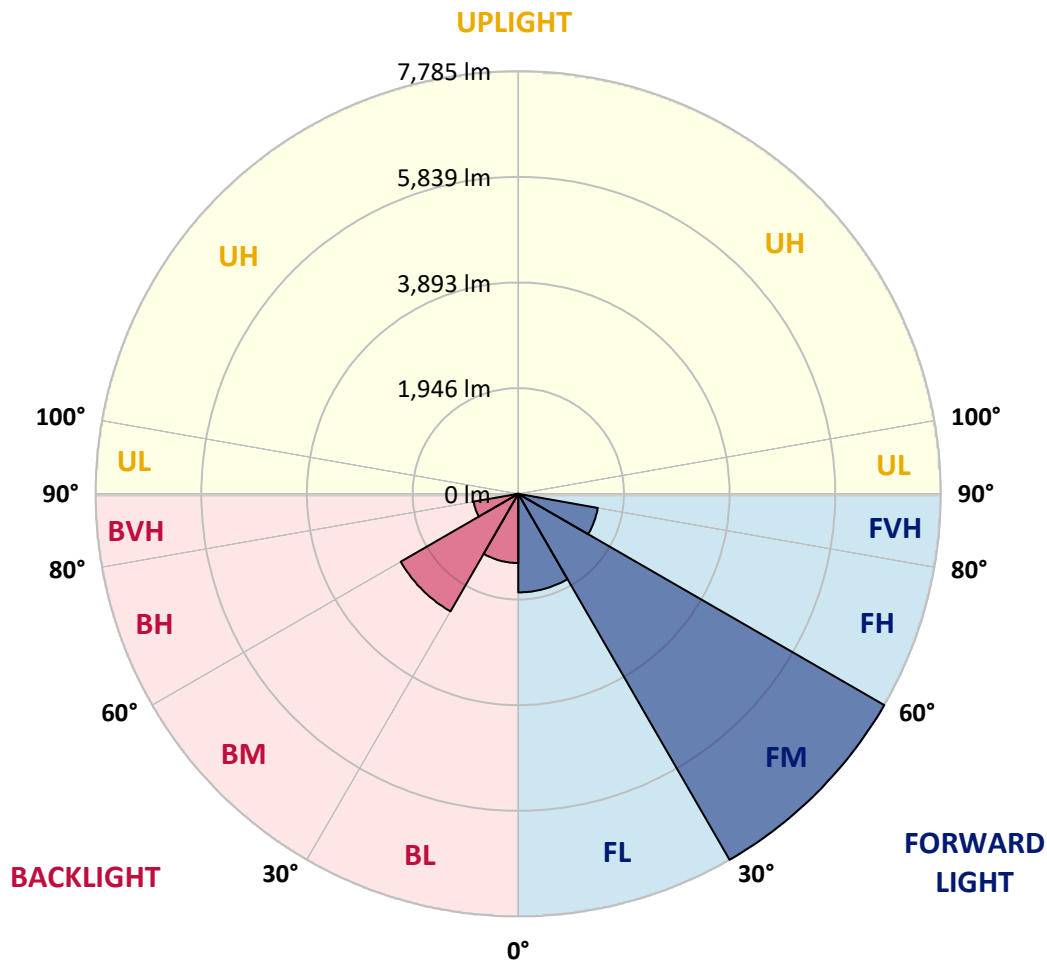
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.1	11.5			
FM (30°-60°)	7785.4	49.3			
FH (60°-80°)	1488.1	9.4			G1/1800
FVH (80°-90°)	33.4	0.2			G1/100
BL (0°-30°)	1275.1	8.1	B3/2500		
BM (30°-60°)	2500.4	15.8	B3/5000		
BH (60°-80°)	835.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	50.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6
2.5°	3842.0	3832.2	3855.8	3873.5	3895.1	3922.6	3936.4	3944.3	4013.0	3995.3	4048.4
5°	3759.4	3733.9	3751.6	3765.3	3802.7	3836.1	3873.5	3932.5	3995.3	4022.9	4087.8
7.5°	3686.7	3672.9	3669.0	3678.8	3729.9	3773.2	3838.1	3924.6	4026.8	4072.1	4109.4
10°	3566.7	3547.1	3576.6	3641.4	3655.2	3745.6	3820.4	3944.3	4032.8	4111.4	4221.5
12.5°	3513.6	3494.0	3499.9	3537.2	3633.6	3720.1	3808.6	3948.2	4134.9	4166.4	4313.9
15°	3598.2	3578.5	3584.4	3574.6	3667.0	3712.2	3851.8	4026.8	4205.7	4258.8	4416.1
17.5°	3790.9	3792.9	3767.3	3745.6	3724.0	3820.4	3916.7	4074.0	4233.3	4367.0	4484.9
20°	4158.6	4093.7	4042.6	3920.6	3887.2	3928.5	4050.5	4201.8	4345.3	4455.5	4589.2
22.5°	4441.7	4447.6	4374.9	4174.3	4101.5	4119.2	4223.4	4347.3	4504.6	4583.3	4736.6
25°	4852.6	4811.4	4732.7	4573.4	4410.2	4424.0	4500.7	4612.7	4656.0	4711.1	4878.2
27.5°	5228.2	5240.0	5084.6	4935.2	4732.7	4693.4	4831.0	4850.7	4777.9	4882.2	4939.2
30°	5609.6	5599.8	5497.6	5322.6	5124.0	5131.9	5192.8	5096.5	4996.2	5053.2	5092.6
32.5°	6004.8	5892.8	5888.9	5731.6	5580.1	5507.4	5432.7	5479.9	5324.6	5336.3	5299.0
35°	6321.4	6337.1	6246.7	6134.6	6059.9	5932.1	5727.6	5812.1	5782.7	5768.9	5607.7
37.5°	6551.4	6490.5	6535.7	6498.4	6427.6	6268.3	6056.0	6136.6	6150.4	6217.2	6030.4
40°	6740.2	6714.7	6834.6	6854.2	6805.1	6461.0	6079.6	6319.4	6525.9	6671.4	6449.3
42.5°	6830.7	6885.7	7011.5	7163.0	7052.9	6685.2	6201.4	6459.0	6919.1	7149.2	6846.4
45°	6952.6	6881.8	7068.6	7345.8	7347.8	6874.0	6319.4	6647.8	7225.9	7560.1	7117.7
47.5°	6828.7	6864.1	7056.8	7408.7	7499.2	7072.5	6638.0	6915.2	7564.1	7861.0	7369.4
50°	6551.4	6622.2	6974.2	7339.9	7613.2	7282.9	7003.7	7204.2	7876.7	8102.8	7410.7
52.5°	6262.4	6301.7	6852.3	7393.0	7664.3	7554.2	7493.3	7603.4	8258.1	8376.1	7461.8
55°	5475.9	5662.7	6449.3	7369.4	7914.1	8043.8	7996.6	8157.8	8690.8	8808.7	7741.1
56°	5112.2	5210.5	6207.4	7259.3	7963.2	8222.8	8199.2	8271.9	8920.8	9044.7	7784.3
57.5°	4439.8	4447.6	5293.1	6771.7	7778.4	8275.8	8252.3	8309.3	8875.5	8791.0	7404.8
60°	2778.2	2900.2	3602.1	5208.5	6614.4	7678.1	7811.8	7353.7	7483.4	7304.5	5761.1
62.5°	1439.3	1421.6	1887.6	3045.7	4390.6	5497.6	5621.5	5599.8	5399.3	5137.7	3763.3
65°	717.7	721.6	987.0	1508.1	2249.3	2878.5	3224.6	3262.0	2729.1	2510.8	1785.3
67.5°	521.1	540.7	709.8	922.1	1059.8	1185.6	1453.0	1425.5	1079.4	1026.4	951.7
70°	405.0	422.7	576.1	703.9	639.0	639.0	696.0	719.7	768.8	790.4	816.0
72.5°	295.0	308.7	440.4	485.7	418.8	450.3	521.1	576.1	627.3	635.1	664.6
75°	202.5	214.3	289.0	267.4	251.7	310.7	381.5	432.6	470.0	489.6	507.3
77.5°	131.7	135.7	165.1	139.6	161.2	200.5	247.7	291.0	328.4	344.1	348.0
80°	59.0	64.9	70.8	88.5	112.0	143.5	177.0	212.3	235.9	241.9	253.6
82.5°	33.4	33.4	43.2	63.0	82.6	104.2	127.8	153.4	180.9	186.8	184.8
85°	17.7	17.7	25.5	37.3	51.1	60.9	59.0	60.9	64.9	74.7	72.7
87.5°	5.9	5.9	7.8	7.8	9.9	11.8	9.9	13.8	17.7	17.7	17.7
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°	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6	4038.6
2.5°	4032.8	4050.5	4026.8	4077.9	4077.9	4068.2	4019.0	4034.7	4046.5	4046.5	4056.3
5°	4109.4	4103.5	4119.2	4058.3	4020.9	4007.2	3926.6	3887.2	3853.8	3851.8	3822.4
7.5°	4152.6	4136.9	4131.0	4085.9	3920.6	3820.4	3647.4	3547.1	3525.5	3448.7	3478.2
10°	4221.5	4251.0	4221.5	3975.7	3745.6	3515.6	3346.5	3191.2	3130.2	3081.1	3051.6
12.5°	4363.0	4349.3	4178.2	3845.9	3523.5	3250.2	2998.5	2835.3	2774.3	2731.1	2727.2
15°	4483.0	4414.2	4152.6	3641.4	3177.4	2886.5	2680.0	2563.9	2536.5	2540.4	2558.1
17.5°	4524.3	4477.1	4019.0	3429.1	2919.8	2577.7	2481.4	2463.7	2489.2	2518.8	2526.6
20°	4589.2	4514.5	3963.9	3140.1	2601.3	2385.0	2379.1	2442.0	2489.2	2532.5	2538.4
22.5°	4724.9	4536.1	3785.0	2866.7	2383.1	2328.0	2385.0	2438.1	2510.8	2546.2	2514.8
25°	4764.2	4488.9	3533.3	2538.4	2245.4	2292.6	2353.5	2426.4	2477.4	2497.1	2510.8
27.5°	4797.6	4416.1	3193.2	2320.1	2202.2	2290.7	2353.5	2414.5	2442.0	2459.7	2475.5
30°	4891.9	4394.5	2898.2	2174.6	2174.6	2251.4	2331.9	2347.7	2385.0	2406.6	2434.2
32.5°	4939.2	4245.1	2595.4	2082.2	2147.1	2271.0	2276.9	2306.4	2308.4	2326.1	2296.5
35°	5063.0	4138.9	2314.2	2015.4	2158.9	2251.4	2280.8	2263.1	2166.8	2119.6	2129.4
37.5°	5153.5	4085.9	2111.8	2007.5	2160.8	2273.0	2288.7	2155.0	2054.7	1976.1	1995.7
40°	5397.3	3954.1	1958.4	1993.8	2178.5	2296.5	2253.3	2107.8	1926.9	1846.3	1832.5
42.5°	5584.0	3859.7	1862.1	1978.0	2192.3	2330.0	2235.6	2013.4	1828.6	1753.8	1773.6
45°	5800.4	3838.1	1810.9	1981.9	2216.0	2347.7	2213.9	1940.7	1744.1	1714.5	1708.7
47.5°	5877.0	3682.8	1755.9	1948.5	2210.0	2341.8	2141.2	1885.6	1712.6	1716.5	1732.2
50°	5749.3	3523.5	1714.5	1879.7	2170.7	2288.7	2027.2	1812.9	1694.9	1744.1	1771.5
52.5°	5586.1	3360.2	1630.0	1787.3	2090.1	2206.1	1974.1	1809.0	1677.2	1661.4	1667.4
55°	5635.2	3226.6	1512.1	1661.4	1960.3	2052.7	1915.1	1771.5	1634.0	1574.9	1594.6
56°	5475.9	3088.9	1435.3	1582.8	1871.8	1954.4	1885.6	1738.2	1598.6	1559.2	1559.2
57.5°	5025.7	2626.9	1335.1	1457.0	1685.1	1783.4	1828.6	1718.5	1559.2	1490.4	1492.4
60°	3706.3	1867.9	1197.4	1284.0	1396.0	1474.7	1685.1	1663.4	1460.9	1413.7	1396.0
62.5°	2284.7	1364.5	1099.1	1132.5	1189.5	1254.4	1470.7	1506.1	1356.7	1305.6	1293.8
65°	1280.0	1044.1	1024.4	1038.2	1065.7	1099.1	1221.0	1299.7	1197.4	1118.8	1114.8
67.5°	935.9	934.0	949.7	961.4	973.3	973.3	1002.8	1034.3	1020.5	957.5	951.7
70°	831.7	837.6	849.4	851.4	855.3	841.6	817.9	808.1	823.9	784.5	776.7
72.5°	686.2	705.9	719.7	721.6	700.0	682.3	650.8	617.4	605.6	597.7	595.8
75°	527.0	540.7	546.6	544.7	536.7	511.2	473.9	440.4	418.8	395.2	407.0
77.5°	355.9	375.5	385.4	385.4	373.6	334.3	316.6	291.0	269.4	243.8	247.7
80°	249.7	263.5	279.2	277.3	257.6	237.9	212.3	188.8	171.1	151.4	149.4
82.5°	186.8	194.7	202.5	198.6	184.8	165.1	147.4	125.8	106.2	92.4	92.4
85°	66.9	72.7	88.5	92.4	100.3	100.3	84.6	70.8	57.0	47.2	47.2
87.5°	19.7	19.7	21.6	21.6	19.7	21.6	17.7	19.7	21.6	13.8	13.8
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)