

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: P647186

Luminaire Tested: **GALN-SA9C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-835-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29801 lumens  
Efficiency: N/A  
Efficacy: 62.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

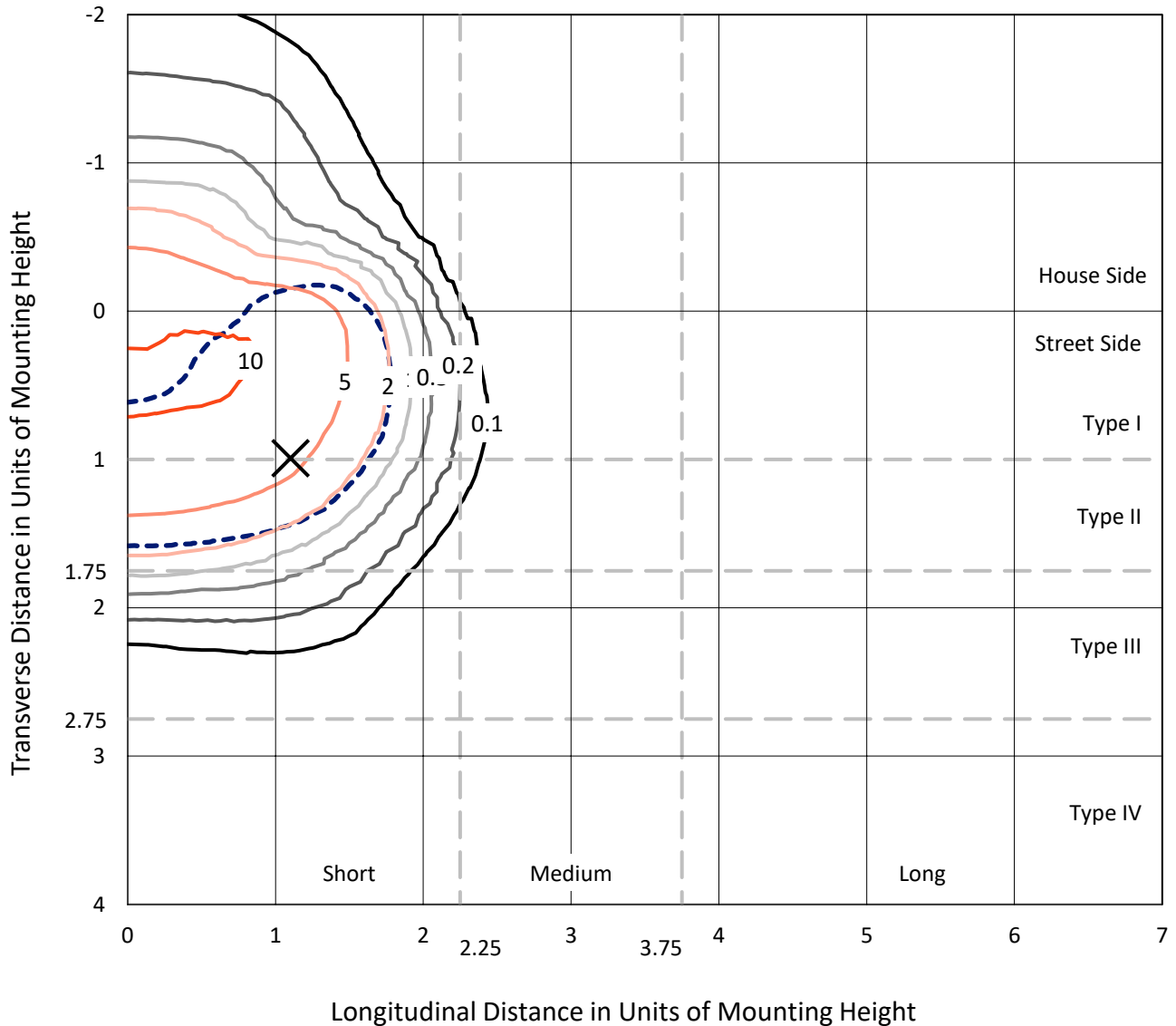
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

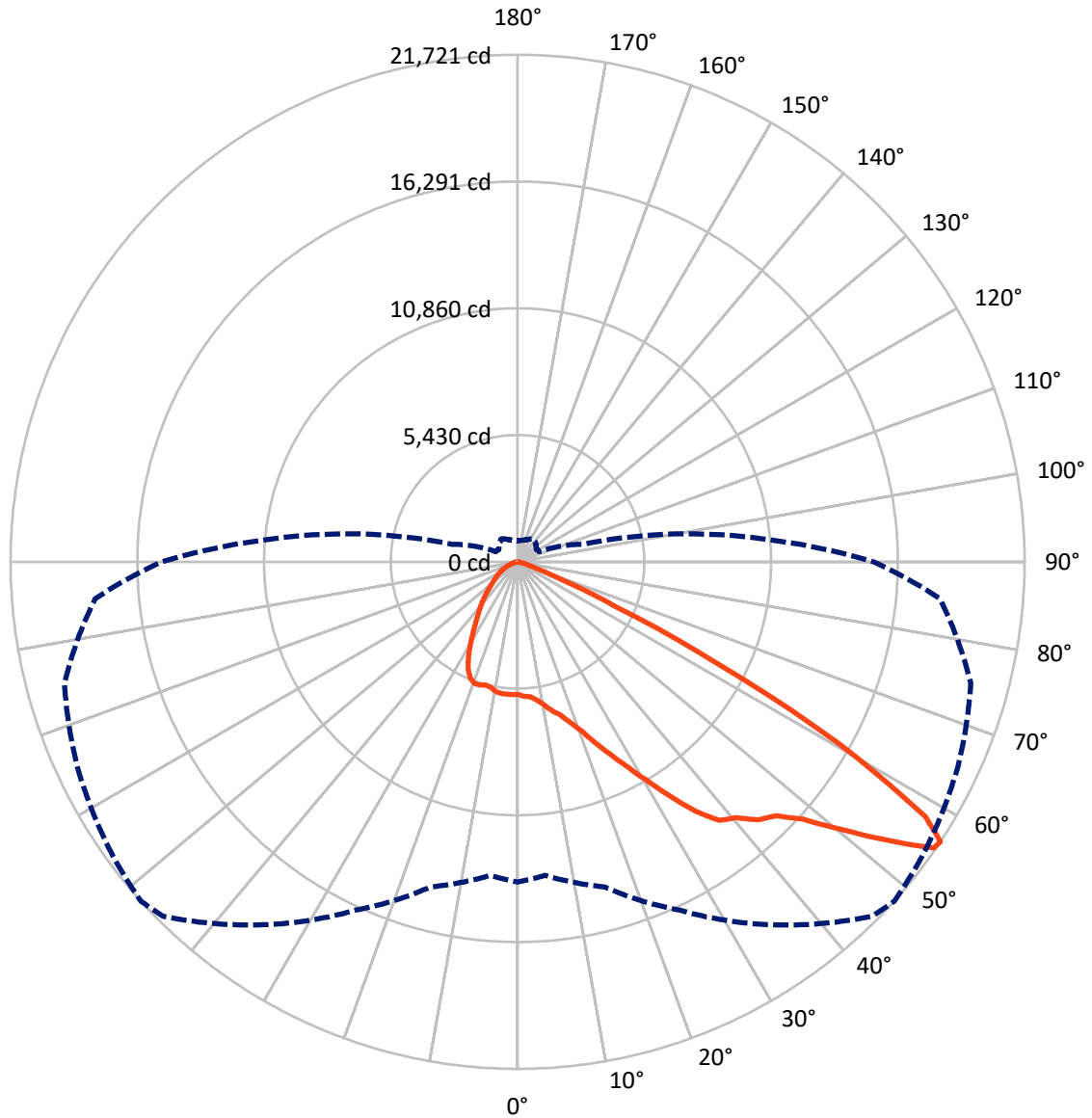
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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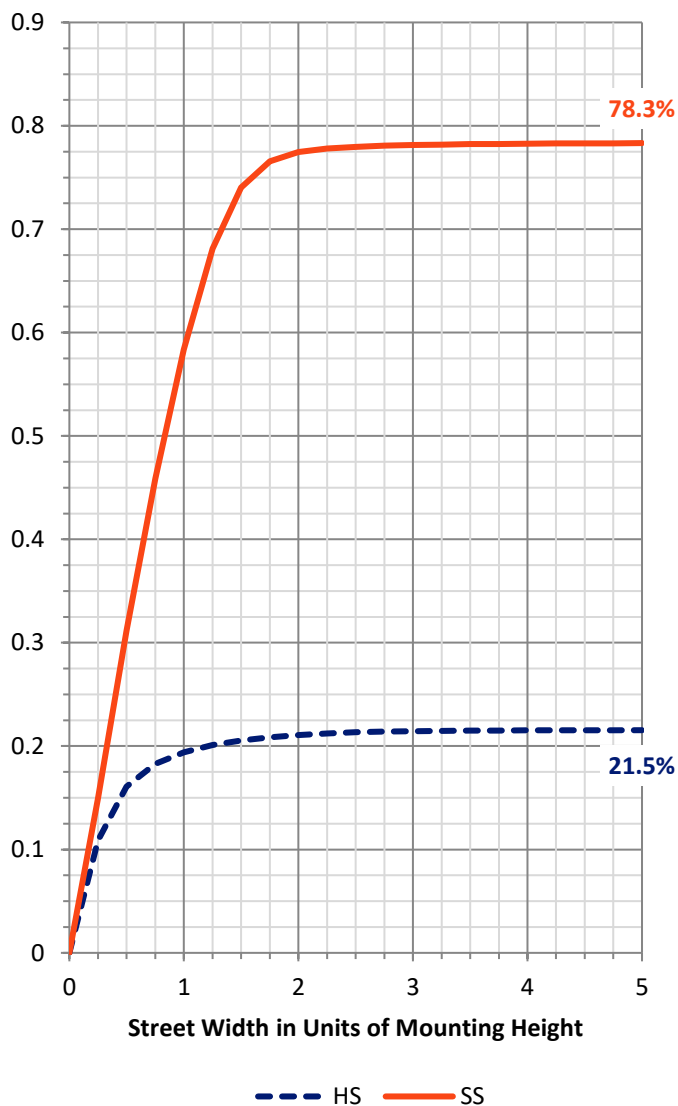
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6481.1	0.0	6481.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	23319.8	0.0	23319.8
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	29801.0	0.0	29801.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.5	1.9
10°-20°	1772.0	5.9
20°-30°	3214.0	10.8
30°-40°	5048.5	16.9
40°-50°	7364.9	24.7
50°-60°	8873.3	29.8
60°-70°	2598.0	8.7
70°-80°	329.6	1.1
80°-90°	46.2	0.2
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°	29801.0	100.0
0°-180°	29801.0	100.0

**Coefficient of Utilization**



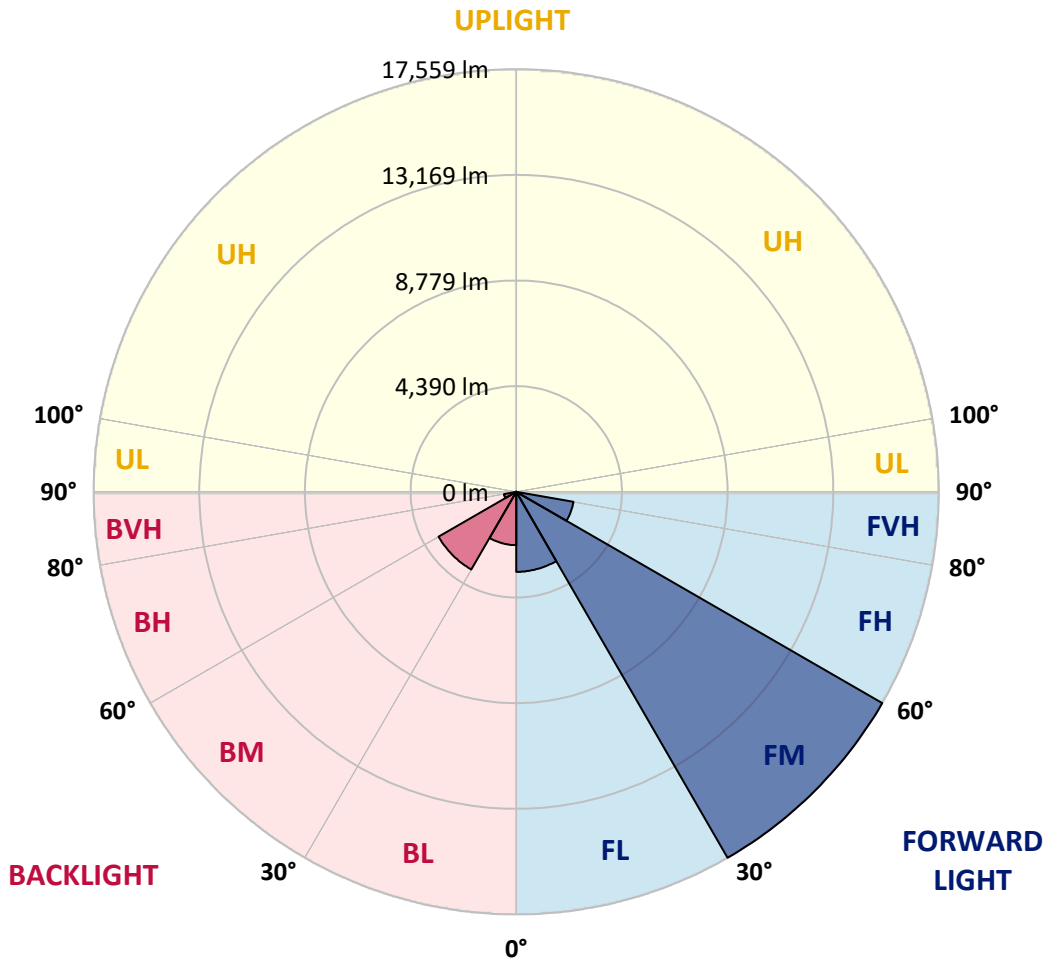
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3325.2	11.2			
FM (30°-60°)	17558.8	58.9			
FH (60°-80°)	2412.6	8.1			G2/5000
FVH (80°-90°)	23.2	0.1			G1/100
BL (0°-30°)	2215.2	7.4	B3/2500		
BM (30°-60°)	3727.9	12.5	B3/5000		
BH (60°-80°)	515.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	23.0	0.1			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°	48°	55°	65°	75°	85°
0°	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0
2.5°	5795.1	5768.0	5768.0	5724.6	5773.4	5751.7	5768.0	5713.7	5768.0	5686.5	5751.7
5°	5822.2	5827.6	5805.9	5833.1	5833.1	5865.6	5811.3	5860.2	5887.4	5827.6	5800.5
7.5°	5963.3	5974.1	5968.7	5947.0	5990.4	5985.0	5979.6	5941.6	5952.4	5930.8	5898.2
10°	6240.0	6234.6	6261.7	6207.5	6174.9	6212.9	6223.8	6164.1	6120.6	6104.3	6001.3
12.5°	6641.6	6576.5	6538.4	6484.2	6500.5	6446.2	6543.9	6440.8	6419.1	6321.4	6218.4
15°	6967.1	6956.3	6961.7	6874.9	6777.3	6798.9	6798.9	6744.7	6712.1	6592.7	6446.2
17.5°	7634.6	7406.6	7455.5	7347.0	7265.6	7260.1	7211.4	7222.2	7135.3	6885.8	6663.3
20°	8155.5	8057.8	7981.8	7797.3	7672.5	7710.5	7688.8	7634.6	7607.4	7281.8	6967.1
22.5°	8622.1	8654.7	8529.8	8481.1	8307.4	8323.7	8367.1	8318.3	8112.0	7775.7	7309.0
25°	9278.6	9240.7	9072.5	9012.8	8850.0	8909.7	9077.9	9039.9	8909.7	8302.0	7574.9
27.5°	10054.6	9924.4	9956.9	9685.6	9528.2	9696.5	9897.3	10087.2	9718.2	8920.6	7889.6
30°	10602.6	10467.0	10456.1	10445.3	10407.3	10602.6	10835.9	11009.6	10711.1	9539.1	8410.5
32.5°	10873.9	10906.5	10998.7	10966.1	11297.2	11698.7	11942.9	12192.5	11818.1	10548.3	9099.6
35°	11595.6	11389.4	11595.6	11617.3	11959.2	12811.1	13120.3	13717.2	13625.0	11975.4	9940.7
37.5°	12018.9	12002.6	12029.7	12235.9	12566.9	13619.6	14059.1	14520.3	14346.7	12832.7	10987.9
40°	12718.8	12762.3	12756.8	12914.2	13277.7	14227.3	14406.3	14780.8	14797.1	14021.1	12528.9
42.5°	13842.0	13668.4	13554.4	13717.2	14227.3	14753.6	15111.7	15035.8	15572.9	15464.4	14509.5
45°	14851.3	14954.4	14786.2	15057.5	15242.0	15524.1	15513.3	15676.1	16359.8	16875.2	16001.6
47.5°	15795.5	15860.5	15942.0	16126.4	16528.0	16571.3	16479.1	16408.6	17352.8	17884.5	17157.4
50°	16359.8	16419.4	16799.3	17130.2	17879.1	17976.7	18031.0	17851.9	18492.2	18551.9	18248.0
52.5°	16207.8	16272.9	16804.7	17895.3	19089.1	19984.4	19821.6	19517.8	19479.8	19713.1	19257.3
55°	14862.1	14802.5	15535.0	17233.4	19468.9	21617.7	21639.4	21319.2	20706.0	20548.7	19105.4
56°	13717.2	13483.9	14417.2	16468.3	18980.5	21476.6	21720.7	21378.9	20803.8	20098.4	18166.6
57.5°	11237.5	11460.0	12387.8	14086.2	17293.0	20461.9	20603.0	20521.6	20087.5	18904.6	15985.3
60°	6196.7	6587.3	7406.6	9484.9	12311.9	15703.2	15817.1	16479.1	16560.5	14476.9	10998.7
62.5°	2631.7	2588.3	3440.2	4970.3	7010.5	9479.5	9691.0	10369.3	10494.1	8345.4	5518.3
65°	1069.0	1128.6	1557.3	2501.5	3706.0	4319.2	4617.7	4840.1	5252.5	3445.6	2034.8
67.5°	705.4	700.0	917.0	1427.1	1996.8	1926.3	1926.3	2034.8	1882.9	1405.3	879.0
70°	504.6	520.9	656.5	987.5	1242.5	922.5	884.5	846.5	960.4	927.9	710.8
72.5°	331.0	352.7	439.5	591.5	645.7	504.6	504.6	607.8	792.2	748.8	580.6
75°	217.0	222.5	271.3	341.9	320.2	260.4	287.6	406.9	575.2	553.5	412.4
77.5°	146.5	151.9	184.5	222.5	179.1	146.5	157.4	206.2	282.2	282.2	217.0
80°	54.3	59.7	76.0	70.5	81.4	103.1	113.9	141.1	168.2	168.2	146.5
82.5°	0.0	5.4	16.3	38.0	59.7	81.4	92.2	108.5	124.8	141.1	135.6
85°	0.0	5.4	16.3	27.1	43.4	48.9	54.3	38.0	32.6	32.6	27.1
87.5°	0.0	0.0	5.4	5.4	5.4	5.4	5.4	5.4	10.9	5.4	5.4
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°	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0
2.5°	5692.0	5686.5	5686.5	5670.3	5702.8	5686.5	5697.4	5692.0	5621.5	5675.7	5637.8
5°	5751.7	5789.7	5730.0	5719.1	5675.7	5692.0	5692.0	5637.8	5686.5	5681.1	5670.3
7.5°	5903.6	5838.5	5773.4	5708.3	5697.4	5681.1	5621.5	5599.8	5637.8	5594.3	5659.4
10°	5968.7	5979.6	5881.9	5795.1	5713.7	5599.8	5518.3	5469.6	5409.8	5475.0	5512.9
12.5°	6267.1	6158.6	5990.4	5854.8	5578.0	5464.1	5382.7	5361.0	5464.1	5485.8	5447.8
15°	6370.3	6354.0	6136.9	5833.1	5545.5	5409.8	5426.1	5382.7	5393.5	5339.3	5350.2
17.5°	6581.9	6397.4	6142.4	5762.6	5540.0	5507.5	5409.8	5236.2	5138.5	5095.1	5133.1
20°	6815.2	6636.2	6267.1	5789.7	5588.9	5502.1	5182.0	4970.3	4769.6	4661.0	4666.4
22.5°	7021.4	6798.9	6212.9	5800.5	5632.3	5274.2	4888.9	4471.1	4221.5	4053.3	4058.8
25°	7271.0	6956.3	6234.6	5822.2	5518.3	4910.7	4357.2	3950.2	3651.8	3537.8	3575.8
27.5°	7412.1	7054.0	6354.0	5871.1	5219.9	4395.1	3798.3	3418.4	3244.8	3190.6	3185.2
30°	7835.3	7271.0	6500.5	5773.4	4720.7	3841.7	3288.2	3054.9	2886.7	2837.8	2848.7
32.5°	8464.8	7667.1	6690.4	5518.3	4210.7	3348.0	2957.2	2783.6	2626.3	2534.0	2523.1
35°	8991.1	8345.4	6891.2	5122.2	3619.3	2968.1	2723.9	2506.9	2268.1	2165.0	2137.9
37.5°	9994.9	9110.4	6847.7	4525.3	3054.9	2685.9	2474.3	2208.5	2002.2	1861.2	1844.9
40°	11329.8	10005.8	6636.2	3798.3	2637.1	2436.3	2208.5	1953.4	1698.4	1579.0	1568.1
42.5°	12952.2	11101.8	6250.9	3060.4	2219.3	2186.8	1980.5	1687.5	1459.6	1372.8	1378.2
45°	14270.7	12040.6	5860.2	2458.0	1910.0	1942.5	1763.5	1486.8	1329.4	1258.8	1258.8
47.5°	15442.7	12675.4	5437.0	2029.4	1622.4	1698.4	1541.0	1378.2	1242.5	1188.4	1177.5
50°	16571.3	13321.1	5013.7	1644.1	1383.6	1459.6	1443.4	1313.1	1204.6	1139.5	1144.9
52.5°	17276.7	13424.2	4476.6	1345.7	1210.0	1296.8	1351.1	1231.7	1112.3	1074.4	1063.5
55°	16414.0	12094.8	3472.7	1106.9	1025.6	1139.5	1242.5	1106.9	1014.7	949.5	944.1
56°	15252.8	10814.2	2903.0	1020.1	971.3	1096.0	1204.6	1058.1	955.0	917.0	889.9
57.5°	12914.2	8850.0	2143.3	906.2	900.8	1020.1	1144.9	1009.3	889.9	857.3	857.3
60°	8052.4	4981.2	1296.8	759.7	781.4	906.2	1031.0	900.8	792.2	792.2	808.5
62.5°	3668.0	2072.8	786.8	645.7	672.8	781.4	917.0	813.9	754.3	813.9	824.7
65°	1248.0	895.3	569.7	515.4	531.7	645.7	786.8	824.7	819.3	857.3	879.0
67.5°	700.0	575.2	477.5	428.7	417.8	477.5	645.7	824.7	792.2	776.0	786.8
70°	591.5	488.4	423.2	379.8	363.5	385.2	499.2	624.0	558.9	542.6	531.7
72.5°	477.5	406.9	368.9	341.9	293.0	249.6	227.9	238.7	265.9	282.2	309.3
75°	336.5	309.3	309.3	276.7	211.6	157.4	124.8	103.1	70.5	48.9	54.3
77.5°	189.9	189.9	195.4	168.2	135.6	103.1	76.0	54.3	27.1	10.9	5.4
80°	130.2	141.1	151.9	135.6	113.9	92.2	65.1	38.0	16.3	0.0	0.0
82.5°	130.2	146.5	157.4	135.6	113.9	86.8	65.1	38.0	16.3	5.4	0.0
85°	27.1	32.6	38.0	43.4	65.1	65.1	48.9	32.6	16.3	5.4	0.0
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	0.0	0.0
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)