

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: P459143

Luminaire Tested: **GALN-SA6B-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23077 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

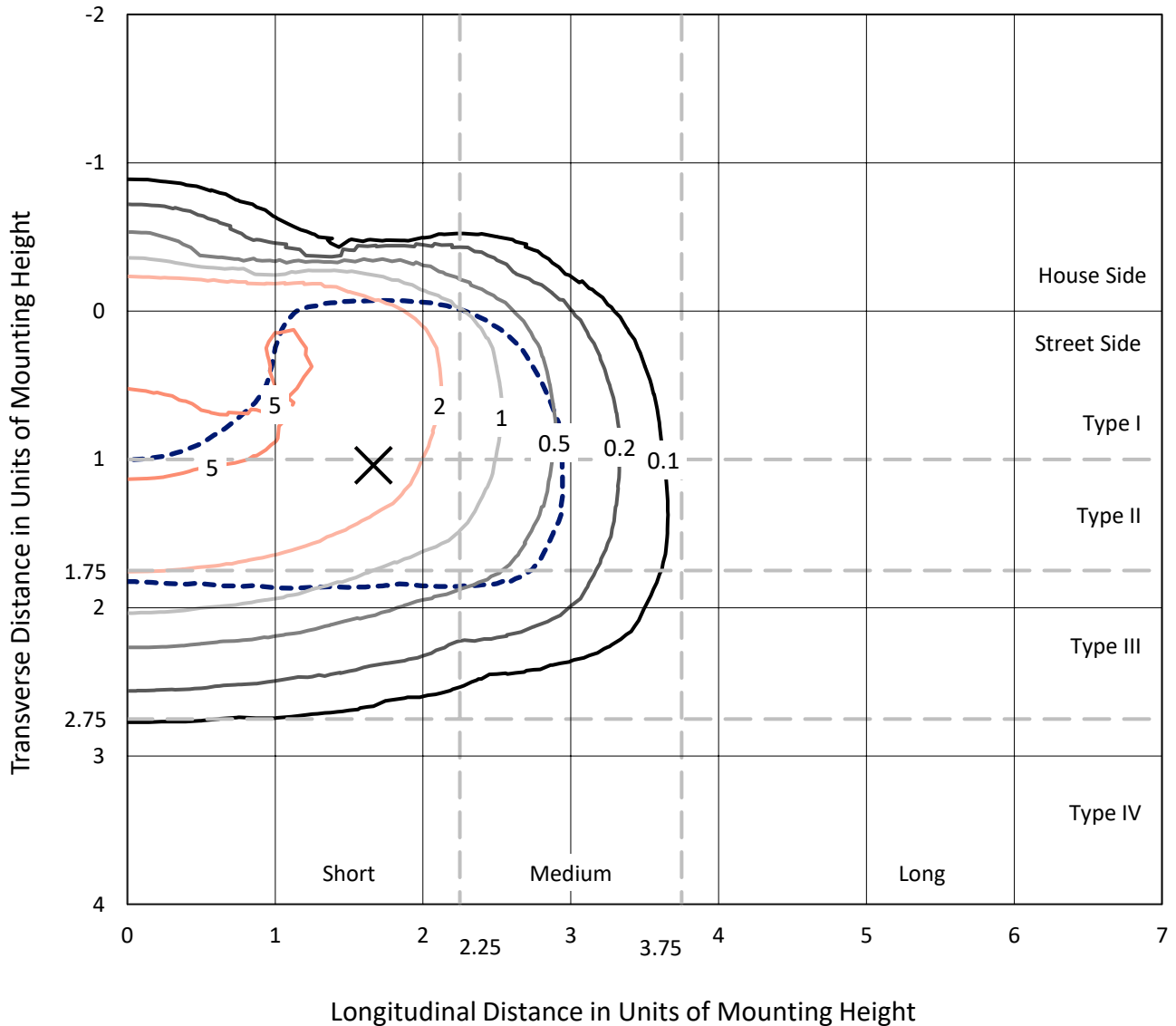
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

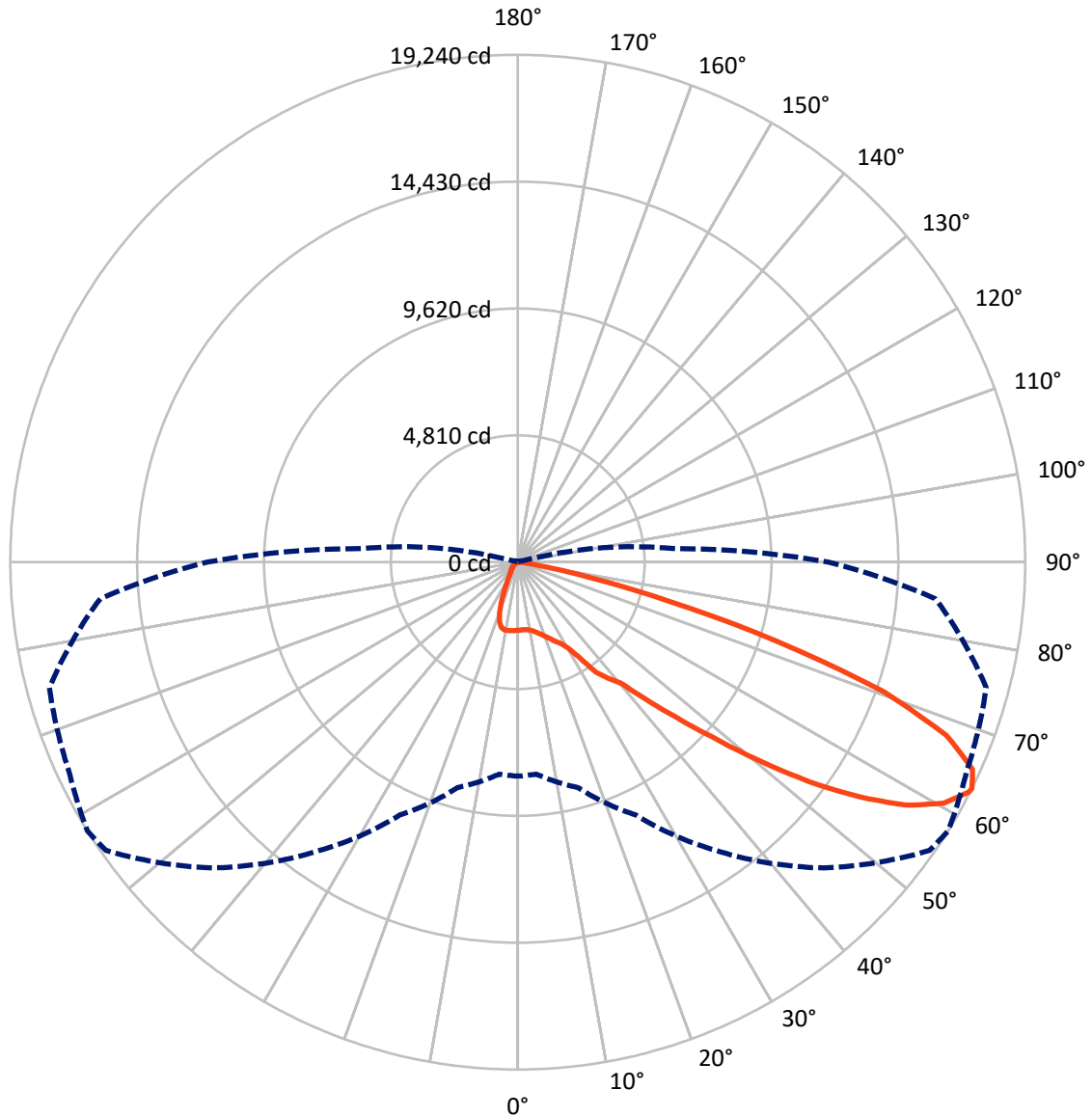
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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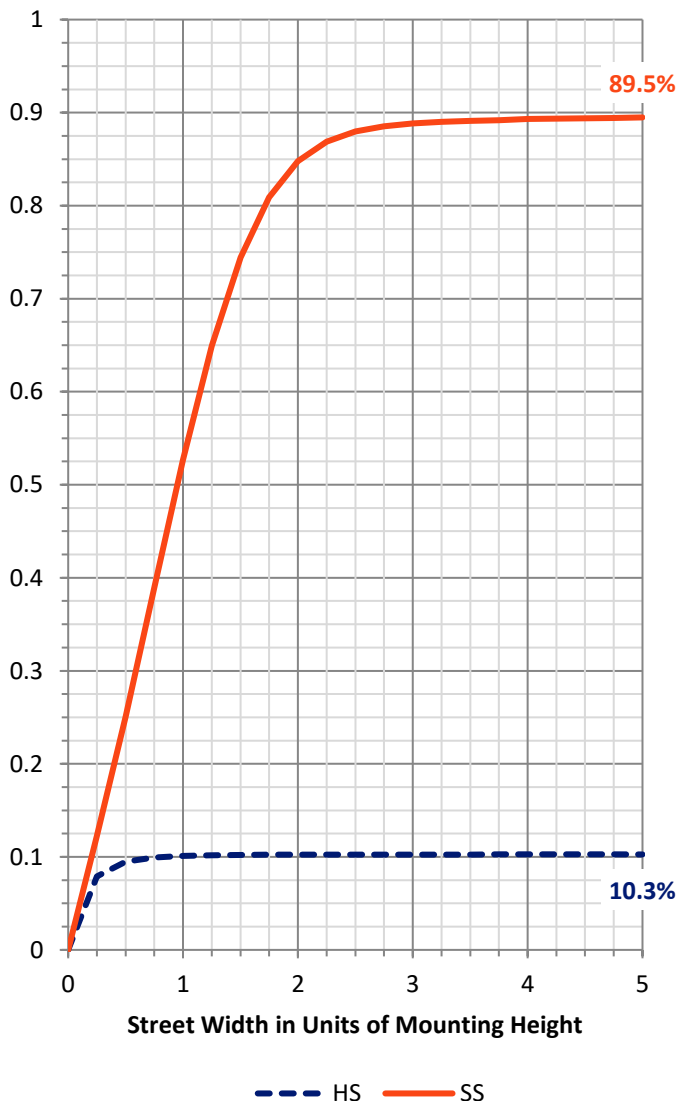
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2389.5	0.0	2389.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20687.5	0.0	20687.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	23077.0	0.0	23077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.0
10°-20°	658.7	2.9
20°-30°	1143.3	5.0
30°-40°	2100.9	9.1
40°-50°	3954.8	17.1
50°-60°	6764.4	29.3
60°-70°	6476.9	28.1
70°-80°	1651.6	7.2
80°-90°	84.4	0.4
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°	23077.0	100.0
0°-180°	23077.0	100.0

Coefficient of Utilization



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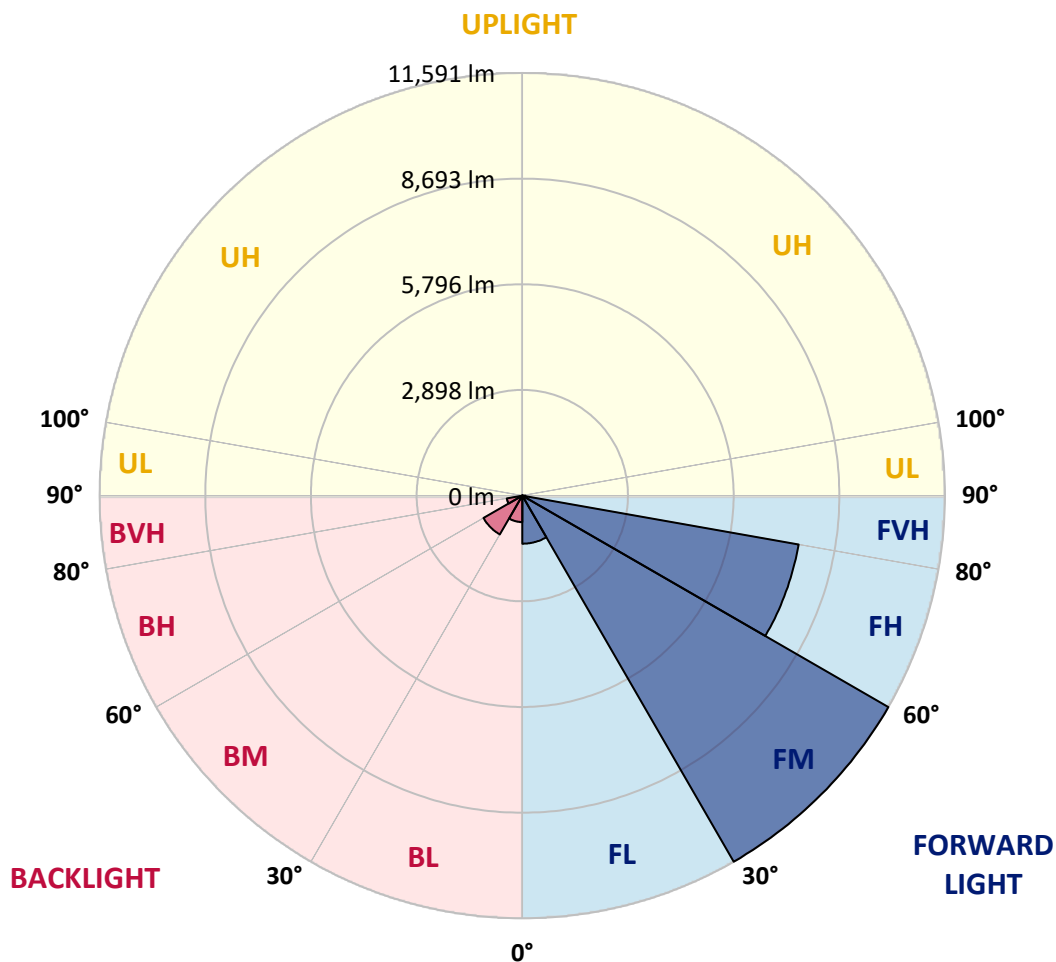
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.2	5.7			
FM	(30°-60°)	11591.1	50.2			
FH	(60°-80°)	7696.1	33.3			G4/12000
FVH	(80°-90°)	81.2	0.4			G1/100
BL	(0°-30°)	724.7	3.1	B2/1000		
BM	(30°-60°)	1229.0	5.3	B2/2500		
BH	(60°-80°)	432.5	1.9	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6
2.5°	2519.3	2528.0	2536.6	2540.1	2552.3	2564.4	2573.1	2571.4	2585.3	2592.2	2592.2
5°	2418.5	2418.5	2441.1	2461.9	2496.7	2531.4	2564.4	2571.4	2597.5	2621.8	2630.5
7.5°	2333.4	2338.6	2356.0	2394.2	2441.1	2501.9	2567.9	2583.6	2628.7	2682.6	2705.2
10°	2293.4	2296.9	2319.5	2359.4	2418.5	2501.9	2594.0	2623.5	2693.0	2778.2	2809.4
12.5°	2284.7	2289.9	2312.5	2357.7	2425.5	2526.2	2651.3	2682.6	2783.4	2892.8	2939.7
15°	2300.4	2303.8	2326.4	2375.1	2449.8	2569.7	2727.8	2771.2	2891.1	3017.9	3078.7
17.5°	2356.0	2352.5	2368.1	2408.1	2491.5	2623.5	2819.8	2872.0	3012.7	3186.4	3226.4
20°	2592.2	2569.7	2555.8	2521.0	2554.0	2700.0	2931.0	3007.5	3181.2	3358.5	3386.3
22.5°	3101.3	3050.9	2951.9	2816.4	2712.1	2804.2	3064.8	3153.4	3377.6	3551.3	3551.3
25°	3749.4	3685.1	3586.1	3290.7	3035.3	2976.2	3216.0	3327.2	3591.3	3766.7	3709.4
27.5°	4560.8	4510.4	4317.5	3973.5	3582.6	3276.8	3391.5	3494.0	3780.6	3992.6	3872.7
30°	5221.0	5196.7	5038.5	4731.0	4300.1	3853.6	3718.1	3785.9	4032.6	4277.6	4154.2
32.5°	5778.7	5778.7	5617.1	5330.4	4927.4	4531.2	4272.3	4321.0	4557.3	4840.5	4611.1
35°	6392.0	6371.2	6240.9	5968.1	5516.3	5167.1	5061.1	5127.2	5340.9	5551.1	4986.4
37.5°	7036.6	7029.6	6894.1	6630.0	6261.7	5822.1	5573.7	5591.1	5700.5	5829.1	5426.0
40°	7736.8	7747.2	7570.0	7406.7	7059.2	6609.2	6133.1	6023.7	6126.2	6489.3	6237.4
42.5°	8563.8	8539.5	8463.0	8240.6	7960.9	7691.6	7120.0	7080.0	7170.4	7559.6	7286.8
45°	9524.6	9559.3	9427.3	9303.9	9116.3	8892.2	8414.4	8344.9	8443.9	9048.5	8661.1
47.5°	10487.1	10454.1	10539.3	10516.7	10617.4	10450.6	10028.4	9886.0	10124.0	10697.4	10127.5
50°	11220.3	11256.8	11434.0	11692.9	12125.5	12219.3	11814.5	11765.9	11871.9	12240.2	11439.2
52.5°	11696.4	11818.0	12096.0	12761.4	13541.5	14147.9	13840.4	13814.3	13770.9	13869.9	12693.7
55°	12007.4	12130.7	12493.9	13473.8	14816.8	15801.9	15817.6	15706.4	15419.7	15348.5	13866.4
57.5°	11816.3	11840.6	12358.3	13668.4	15523.9	16981.6	17492.5	17381.3	16851.3	16582.0	14901.9
60°	10620.9	10671.3	11392.3	12931.7	15216.4	17367.4	18602.7	18552.3	17972.0	17667.9	15708.1
62.5°	8503.0	8648.9	9390.8	11107.4	13786.5	16717.6	19052.7	19195.1	18743.4	18324.7	15961.8
63°	8113.8	8066.9	8850.5	10575.7	13407.8	16396.1	19059.6	19240.3	18778.2	18387.2	15892.3
65°	6006.3	6147.0	6656.1	8339.7	11157.8	14900.2	18630.5	18950.2	18649.6	18111.0	15122.6
67.5°	3372.4	3365.4	3928.3	5457.3	7809.8	11687.7	16846.1	17522.0	17459.4	16251.9	12535.6
70°	1650.6	1676.6	1907.7	2828.5	4529.5	8063.4	13998.5	14728.2	14750.8	12764.9	8668.0
72.5°	747.1	759.3	924.3	1377.8	2328.2	4293.2	9646.2	10342.9	10214.4	8134.7	4786.6
75°	394.4	420.5	509.1	693.2	1122.4	1770.4	5247.0	5921.2	5651.9	3716.4	1761.8
77.5°	291.9	300.6	345.7	441.3	601.2	689.8	2263.9	2693.0	2522.7	1344.8	583.8
80°	213.7	220.7	257.1	312.7	378.8	351.0	853.1	978.2	877.4	456.9	179.0
82.5°	130.3	132.0	187.6	232.8	238.0	196.3	281.5	302.3	316.2	257.1	97.3
85°	46.9	59.1	126.8	168.5	140.7	99.0	118.1	130.3	142.5	163.3	57.3
87.5°	5.2	6.9	60.8	81.7	40.0	36.5	43.4	48.6	52.1	60.8	27.8
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°	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6	2583.6
2.5°	2599.2	2606.1	2600.9	2592.2	2590.5	2585.3	2574.9	2574.9	2574.9	2578.3	2574.9
5°	2637.4	2642.6	2630.5	2613.1	2594.0	2569.7	2543.6	2528.0	2526.2	2522.7	2514.1
7.5°	2710.4	2717.3	2689.5	2647.8	2595.7	2536.6	2481.1	2428.9	2404.6	2385.5	2385.5
10°	2816.4	2823.3	2767.7	2693.0	2588.8	2468.9	2336.8	2217.0	2123.1	2079.7	2069.3
12.5°	2943.2	2946.7	2854.6	2724.3	2552.3	2321.2	2039.7	1777.4	1595.0	1511.6	1502.9
15°	3082.2	3057.9	2936.3	2736.5	2448.0	2017.2	1530.7	1209.3	1019.9	964.3	985.1
17.5°	3222.9	3177.8	2998.8	2717.3	2213.5	1530.7	1028.6	825.3	766.2	750.6	750.6
20°	3355.0	3292.4	3044.0	2633.9	1806.9	1054.6	762.7	714.1	703.7	693.2	695.0
22.5°	3487.0	3391.5	3083.9	2448.0	1346.5	754.0	682.8	667.2	653.3	639.4	637.6
25°	3615.6	3483.5	3099.6	2104.0	917.4	648.1	623.7	602.9	575.1	559.5	556.0
27.5°	3749.4	3594.7	3089.2	1669.7	668.9	580.3	556.0	526.4	493.4	465.6	465.6
30°	4006.5	3806.7	3052.7	1200.6	562.9	510.8	479.5	432.6	396.1	368.3	366.6
32.5°	4357.5	4083.0	2927.6	844.4	500.4	450.0	403.1	351.0	312.7	291.9	291.9
35°	4670.2	4361.0	2693.0	622.0	450.0	390.9	333.6	283.2	253.7	239.8	234.6
37.5°	5146.3	4767.5	2369.9	505.6	401.3	338.8	279.7	232.8	208.5	198.1	198.1
40°	5860.4	5264.4	1973.7	443.0	354.4	288.4	232.8	196.3	177.2	165.1	165.1
42.5°	6746.4	5872.5	1572.4	397.9	311.0	248.5	194.6	166.8	149.4	140.7	139.0
45°	7861.9	6513.6	1211.0	356.2	276.3	212.0	165.1	140.7	123.4	118.1	119.9
47.5°	9026.0	7078.3	938.2	319.7	239.8	179.0	140.7	121.6	109.5	102.5	102.5
50°	10019.8	7467.5	712.3	278.0	212.0	151.2	123.4	109.5	99.0	95.6	93.8
52.5°	10850.3	7580.4	545.6	241.5	185.9	130.3	109.5	99.0	90.3	85.1	85.1
55°	11557.4	7481.4	427.4	203.3	156.4	112.9	97.3	88.6	78.2	73.0	71.2
57.5°	11970.9	7163.4	326.6	168.5	126.8	93.8	85.1	74.7	62.5	53.9	53.9
60°	12179.4	6701.3	250.2	139.0	97.3	74.7	69.5	55.6	43.4	36.5	34.7
62.5°	11929.2	6088.0	189.4	109.5	73.0	55.6	46.9	40.0	27.8	20.8	20.8
63°	11774.6	5910.7	182.4	104.2	67.8	52.1	43.4	36.5	24.3	19.1	17.4
65°	10733.8	5137.6	149.4	83.4	53.9	36.5	29.5	26.1	17.4	8.7	6.9
67.5°	8523.8	3930.1	118.1	62.5	38.2	26.1	17.4	15.6	5.2	0.0	0.0
70°	5763.1	2538.4	92.1	45.2	26.1	15.6	8.7	6.9	1.7	0.0	0.0
72.5°	3005.8	1301.3	71.2	33.0	15.6	10.4	5.2	1.7	0.0	0.0	0.0
75°	1063.3	443.0	52.1	20.8	10.4	5.2	1.7	0.0	0.0	0.0	0.0
77.5°	321.4	165.1	33.0	15.6	6.9	3.5	0.0	0.0	0.0	0.0	0.0
80°	112.9	60.8	19.1	10.4	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	55.6	29.5	12.2	8.7	5.2	1.7	0.0	0.0	0.0	0.0	0.0
85°	31.3	19.1	10.4	8.7	5.2	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	13.9	10.4	8.7	6.9	3.5	1.7	0.0	0.0	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)