

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: P651014

Luminaire Tested: **GALN-SA7C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34839.3 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

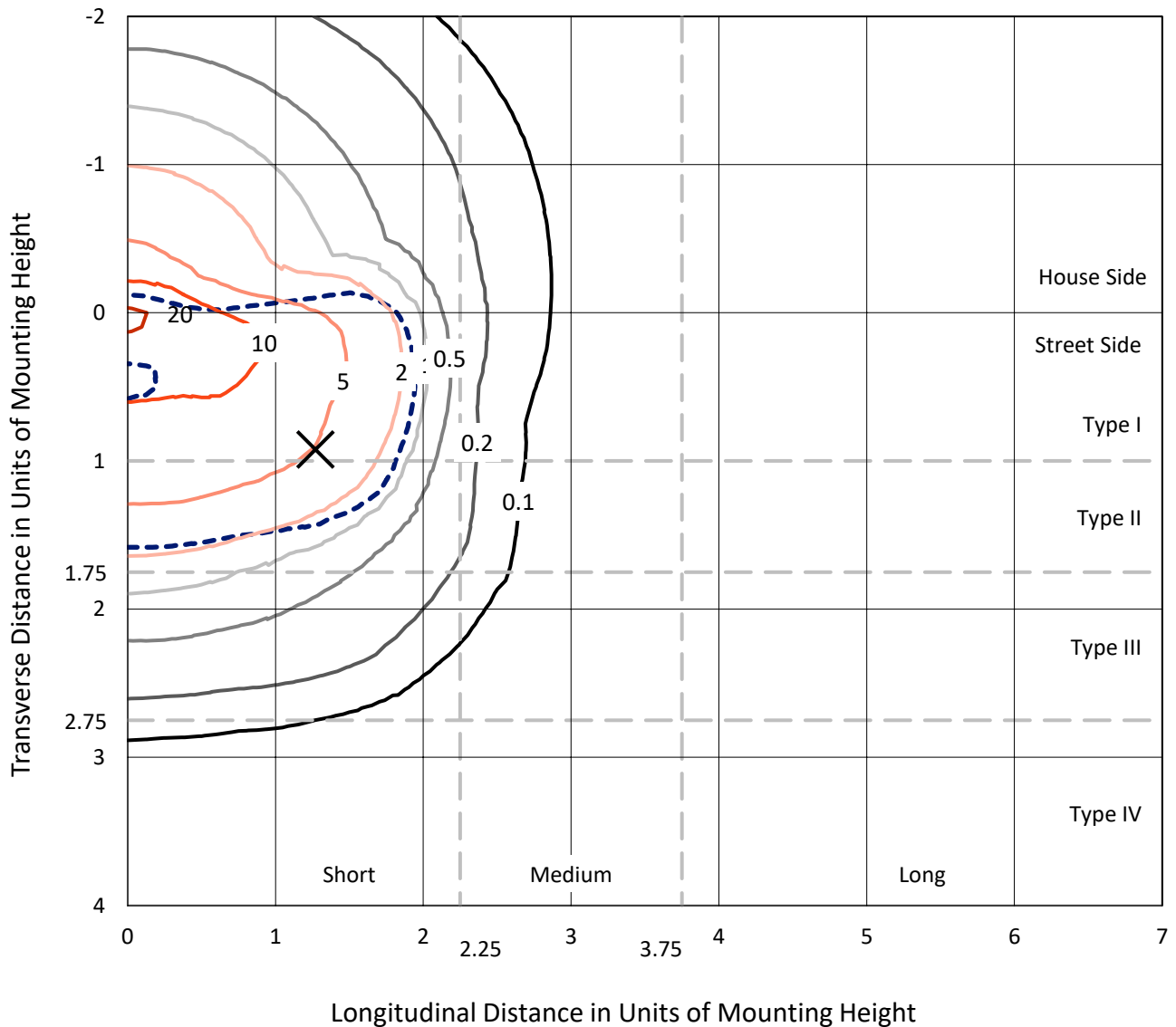
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

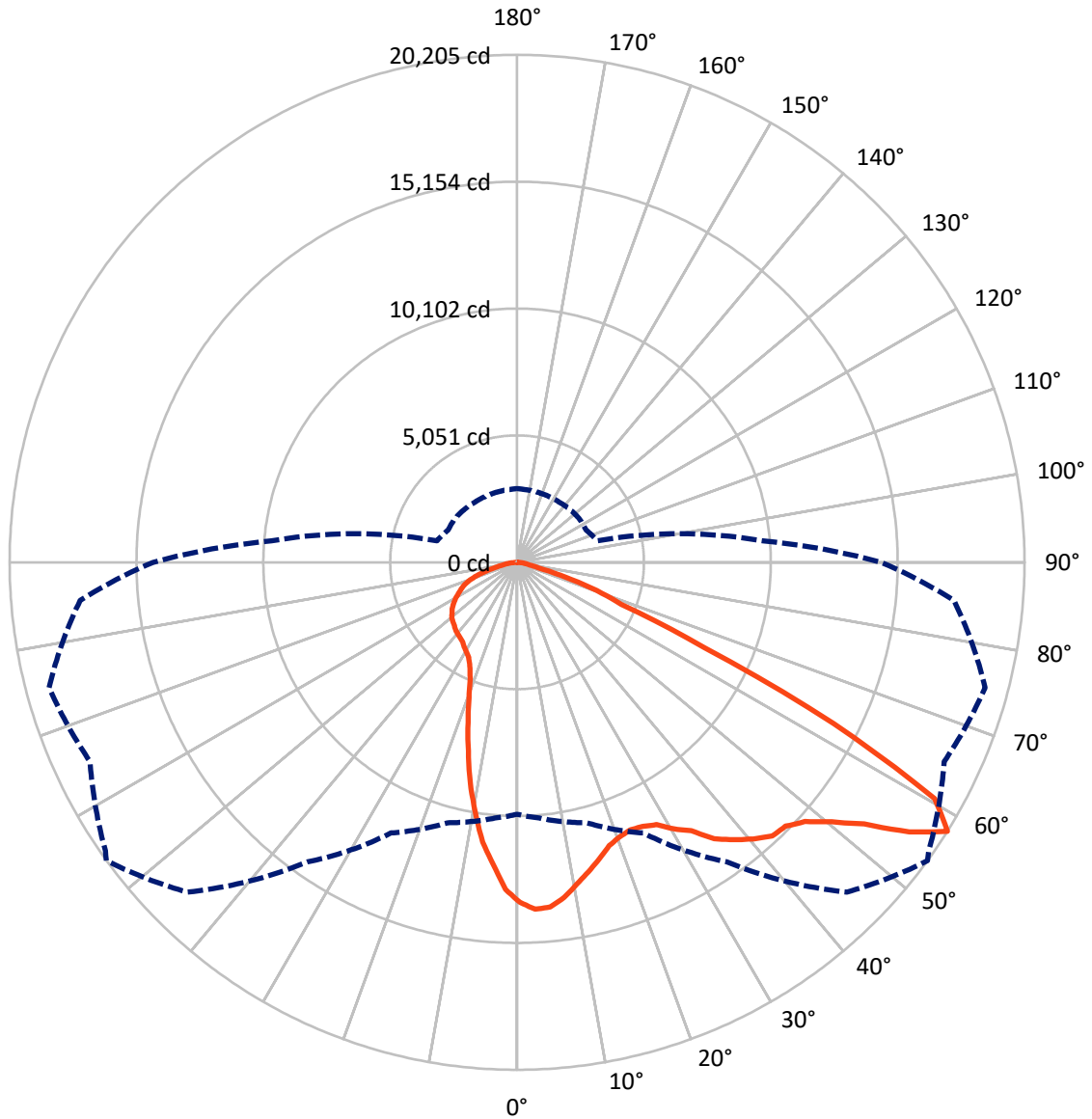
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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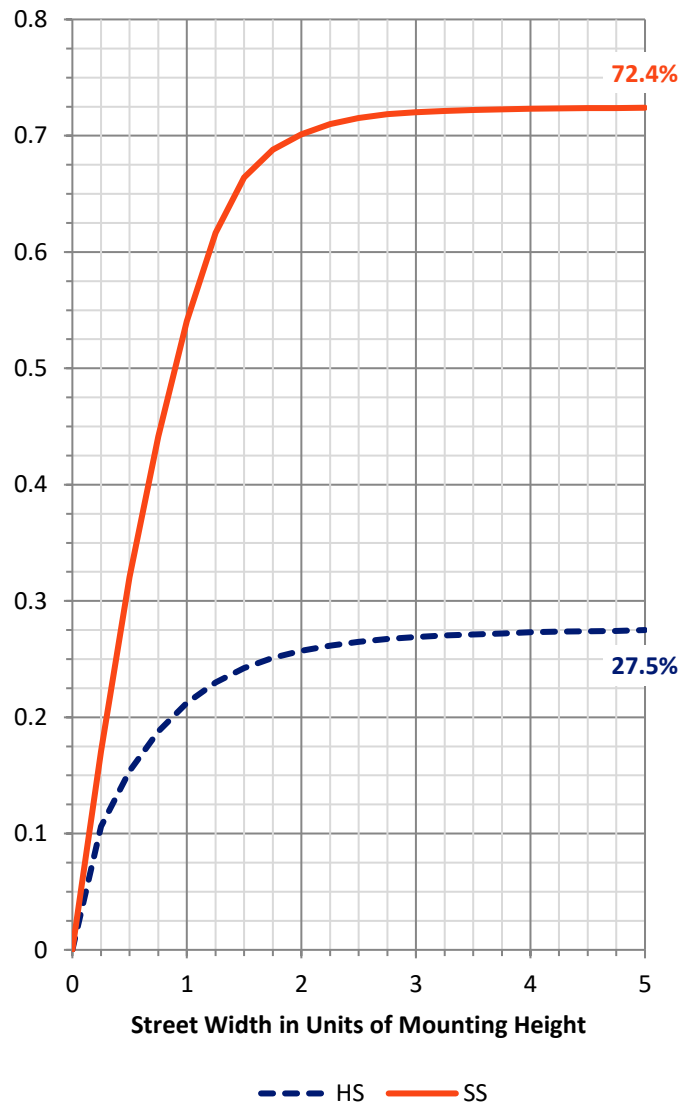
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9638.5	0.0	9638.5
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	25200.8	0.0	25200.8
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	34839.3	0.0	34839.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1167.8	3.4
10°-20°	2704.0	7.8
20°-30°	3799.1	10.9
30°-40°	5311.2	15.2
40°-50°	7190.3	20.6
50°-60°	8758.1	25.1
60°-70°	4561.6	13.1
70°-80°	1168.9	3.4
80°-90°	178.3	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°	34839.3	100.0
0°-180°	34839.3	100.0

**Coefficient of Utilization**



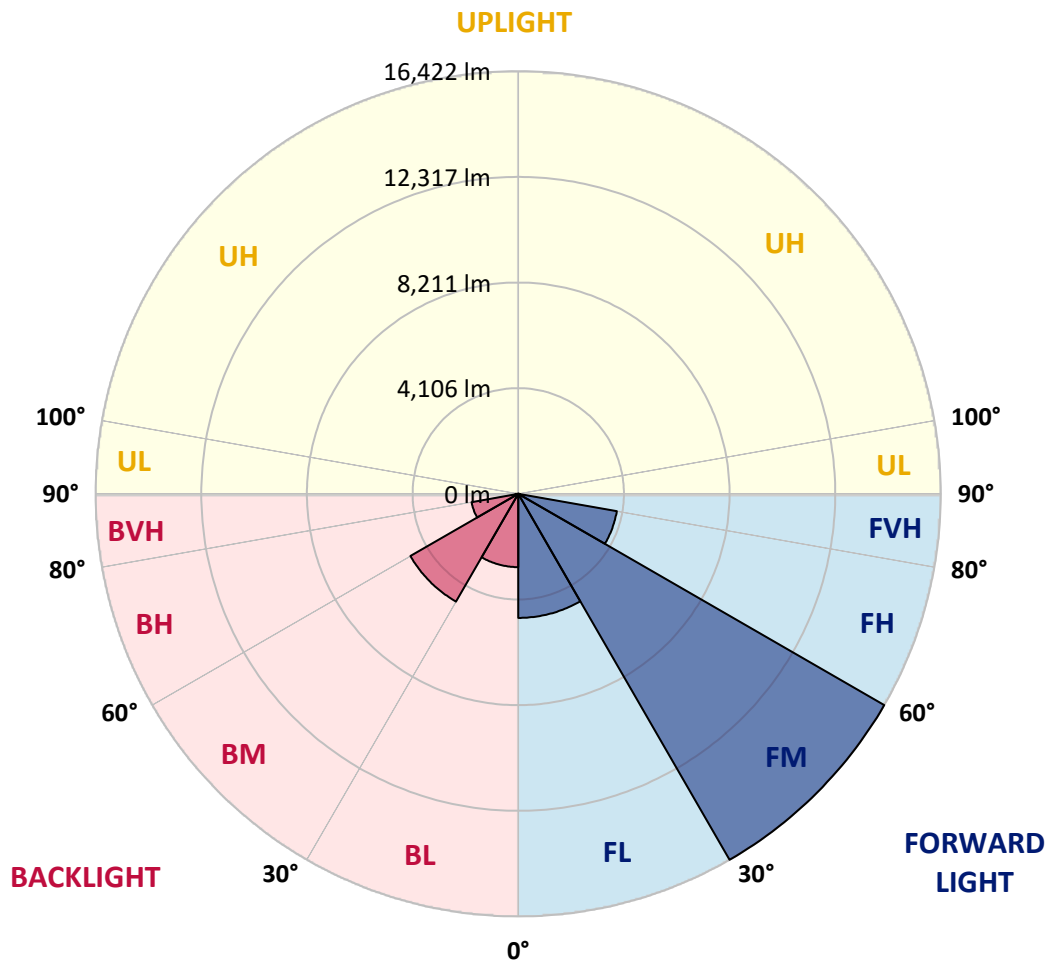
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4822.2	13.8			
FM (30°-60°)	16422.2	47.1			
FH (60°-80°)	3889.0	11.2			G2/5000
FVH (80°-90°)	67.4	0.2			G1/100
BL (0°-30°)	2848.7	8.2	B4/5000		
BM (30°-60°)	4837.5	13.9	B3/5000		
BH (60°-80°)	1841.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	110.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6
2.5°	13926.7	13873.0	13882.0	13953.6	13864.1	13828.2	13828.2	13653.6	13667.0	13546.1	13514.8
5°	13604.4	13479.0	13564.0	13671.5	13689.4	13725.2	13783.4	13738.7	13613.3	13483.4	13272.9
7.5°	12762.4	12874.4	12905.7	12981.8	13143.1	13290.8	13474.4	13349.1	13344.6	13214.7	13089.3
10°	12023.5	11956.4	12126.5	12238.5	12507.2	12753.5	13035.6	13022.1	13089.3	12941.6	12726.6
12.5°	11289.2	11235.4	11316.0	11571.3	11947.4	12305.7	12641.6	12516.2	12874.4	12847.5	12386.2
15°	10510.0	10550.3	10666.7	10904.1	11396.6	11826.6	12251.9	12256.4	12574.4	12681.9	12063.9
17.5°	9963.7	9918.9	10066.7	10420.4	10859.2	11374.3	11857.8	11956.4	12444.5	12507.2	11965.3
20°	9556.2	9618.9	9811.4	9990.5	10496.5	11119.0	11665.3	11701.2	12417.6	12587.8	11808.6
22.5°	9457.6	9421.8	9484.5	9775.6	10192.1	10868.2	11562.3	11696.6	12413.2	12560.9	11513.0
25°	9354.6	9471.1	9466.6	9757.7	10062.1	10666.7	11647.4	11795.2	12650.5	12699.8	11553.4
27.5°	9587.5	9574.1	9699.4	9721.9	10098.0	10720.5	11826.6	11938.5	13044.6	13004.3	11584.7
30°	9820.4	9753.2	9829.4	10093.5	10268.2	11029.5	12319.1	12310.1	13555.1	13528.2	11683.3
32.5°	10107.0	10075.6	10124.9	10357.8	10653.3	11441.4	12735.6	12999.8	14074.5	14244.7	12023.5
35°	10160.7	10290.6	10407.0	10720.5	11141.4	12108.6	13519.2	13738.7	14674.6	15207.5	12672.9
37.5°	10501.1	10550.3	10823.4	11378.7	11763.8	12999.8	14016.3	14155.1	15220.9	15825.4	13358.0
40°	10863.8	10922.0	11333.9	11916.1	12444.5	13581.9	14482.0	14526.8	15395.5	16300.1	13805.9
42.5°	11356.4	11410.1	11817.6	12547.5	13255.0	14079.0	14894.0	14943.2	15382.1	16846.4	14517.8
45°	11866.8	11996.7	12475.8	13304.3	13940.2	14661.2	14988.0	15189.6	15507.5	17334.5	15095.5
47.5°	12583.3	12704.2	13098.3	13908.8	14652.2	15171.6	15422.4	15619.5	15807.5	17760.0	15467.2
50°	13344.6	13366.9	13846.1	14580.5	15126.8	15749.3	16232.9	16300.1	16201.6	18252.6	16098.6
52.5°	13904.3	13976.0	14347.7	15064.2	15879.2	16644.9	17307.7	17379.3	17186.8	18436.1	16313.5
55°	12977.4	12937.1	13541.6	14495.5	16385.2	17979.4	18942.2	18995.9	17903.2	19004.8	17016.6
57.5°	10030.9	10223.4	10738.4	11889.2	14558.1	18570.5	20204.9	20012.4	18763.0	19291.4	17464.4
60°	7290.3	7245.5	7590.3	8360.5	10971.2	16004.6	19103.4	19300.4	18060.0	17388.3	14401.4
62.5°	5937.9	5875.2	5902.1	5929.0	7079.8	10621.9	14141.7	14137.2	13908.8	12498.3	9712.9
65°	4746.8	4894.5	4907.9	5109.5	5257.3	6345.4	8194.9	8633.7	7518.6	6166.3	4473.5
67.5°	3578.0	3524.2	3703.3	4419.9	4697.5	4581.0	4473.5	4522.8	3215.2	2319.6	2185.3
70°	2109.1	2086.8	2301.7	3080.9	3869.0	3640.7	3372.0	3376.4	2207.7	1621.0	1804.6
72.5°	1155.4	1150.8	1195.6	1562.8	2198.7	2283.8	2024.1	2086.8	1316.6	1312.0	1410.6
75°	644.9	631.4	618.0	689.6	792.6	837.4	855.3	864.3	904.6	1012.1	1052.3
77.5°	237.3	228.4	228.4	264.2	335.9	420.9	532.9	541.9	640.3	734.4	774.7
80°	80.6	89.6	120.9	165.7	223.9	300.1	362.7	371.6	452.3	514.9	528.4
82.5°	49.3	53.7	80.6	116.4	161.2	210.5	268.7	273.2	335.9	376.2	394.1
85°	22.4	26.8	44.7	71.7	103.0	138.8	143.3	143.3	138.8	143.3	134.3
87.5°	0.0	0.0	8.9	8.9	8.9	13.5	17.9	13.5	22.4	26.8	26.8
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°	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6	13541.6
2.5°	13420.7	13371.5	13219.2	13084.9	13044.6	12865.4	12601.2	12632.6	12440.0	12529.6	12435.5
5°	13237.1	13071.4	12681.9	12516.2	12081.8	11884.8	11750.4	11414.6	11257.8	11226.5	11092.1
7.5°	12766.9	12663.9	12175.8	11728.0	11266.8	10872.7	10366.7	10021.9	9775.6	9708.4	9511.4
10°	12395.2	12166.8	11490.7	10810.0	10151.7	9466.6	8808.3	8293.4	8042.6	7751.5	7653.0
12.5°	12028.1	11683.3	10769.7	9896.5	9045.6	8181.4	7384.3	6757.4	6211.0	6081.2	6036.4
15°	11799.7	11199.6	10124.9	9072.5	7863.4	6735.0	5937.9	5525.9	5190.1	5051.2	5149.8
17.5°	11499.7	10801.0	9506.9	8105.3	6775.3	5736.4	5069.1	4813.9	4693.0	4706.4	4666.1
20°	11123.5	10424.9	8696.4	7227.6	5803.6	4975.1	4594.5	4500.4	4518.4	4549.7	4536.3
22.5°	10854.8	9968.1	8109.8	6332.0	5015.4	4554.2	4397.4	4330.3	4388.5	4415.3	4393.0
25°	10648.8	9578.6	7397.8	5539.3	4558.6	4316.9	4245.2	4240.7	4330.3	4366.1	4343.7
27.5°	10460.7	9215.8	6690.2	4934.8	4254.1	4133.3	4110.8	4164.5	4222.8	4258.7	4289.9
30°	10348.8	8938.1	6027.4	4428.8	4101.9	4043.7	4003.4	4052.6	4084.0	4119.8	4101.9
32.5°	10456.2	8741.2	5387.1	4142.2	3976.5	3918.3	3972.0	3940.7	3994.4	4025.8	3976.5
35°	10792.1	8566.5	4930.4	3990.0	3833.2	3855.6	3864.6	3851.1	3873.5	3846.6	3904.8
37.5°	11123.5	8503.9	4509.4	3860.1	3766.1	3766.1	3757.1	3730.3	3775.0	3766.1	3792.9
40°	11544.4	8544.1	4151.2	3721.3	3703.3	3694.4	3658.6	3654.1	3636.1	3640.7	3649.6
42.5°	11911.6	8633.7	3945.1	3631.7	3645.1	3663.1	3595.9	3542.1	3564.5	3519.8	3519.8
45°	12301.2	8714.3	3761.5	3569.0	3555.6	3551.1	3497.4	3466.0	3448.1	3452.6	3492.8
47.5°	12914.7	8830.8	3622.8	3483.9	3492.8	3425.7	3412.3	3372.0	3389.9	3416.7	3421.3
50°	13349.1	9077.0	3515.3	3385.4	3416.7	3372.0	3291.3	3273.4	3273.4	3318.2	3309.3
52.5°	13653.6	9421.8	3412.3	3278.0	3291.3	3255.5	3228.7	3188.4	3161.5	3224.2	3255.5
55°	14585.0	9995.0	3385.4	3188.4	3183.9	3148.0	3098.8	3058.5	3045.1	3054.0	3116.7
57.5°	14495.5	9815.9	3300.3	3031.6	3022.7	2973.4	2924.2	2910.7	2906.2	2915.2	2933.2
60°	11768.3	7249.9	2946.5	2852.5	2839.0	2830.1	2780.9	2727.1	2700.3	2727.1	2704.7
62.5°	7787.3	4854.2	2597.3	2637.5	2646.5	2624.2	2543.5	2489.8	2498.8	2530.1	2480.9
65°	3824.3	2852.5	2355.5	2463.0	2471.9	2409.2	2333.1	2270.4	2239.0	2265.9	2243.5
67.5°	2185.3	2180.8	2158.4	2270.4	2265.9	2203.2	2082.3	2028.6	1974.8	1983.8	1970.4
70°	1853.9	1889.7	1934.6	2001.7	1997.2	1925.6	1782.2	1742.0	1665.9	1656.9	1634.5
72.5°	1459.8	1522.5	1621.0	1670.3	1630.0	1540.5	1446.4	1379.2	1312.0	1271.8	1285.2
75°	1083.7	1173.3	1227.0	1258.3	1195.6	1146.4	1070.3	989.7	909.0	873.2	859.8
77.5°	788.1	815.0	864.3	886.7	846.4	797.1	752.3	671.7	595.6	546.3	532.9
80°	550.8	568.7	604.5	604.5	604.5	582.1	523.9	443.3	394.1	349.3	340.4
82.5°	385.1	403.0	438.8	420.9	416.5	389.6	353.7	291.1	237.3	206.0	197.0
85°	134.3	147.8	179.1	215.0	228.4	223.9	201.5	161.2	125.4	103.0	94.0
87.5°	31.4	31.4	35.8	31.4	31.4	35.8	31.4	31.4	31.4	22.4	17.9
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)