

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: P648151

Luminaire Tested: **GALN-SA9A-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26567.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

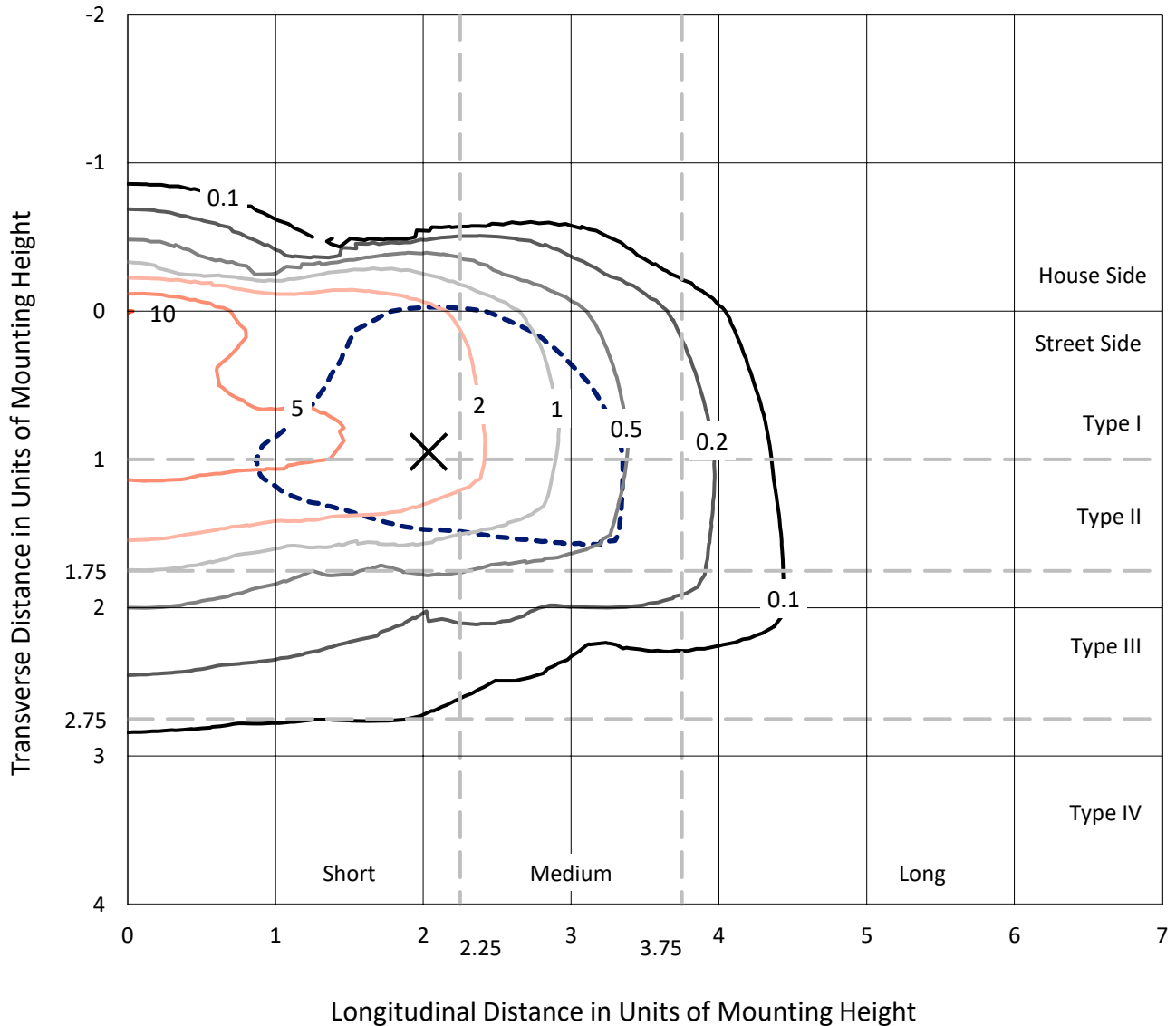
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

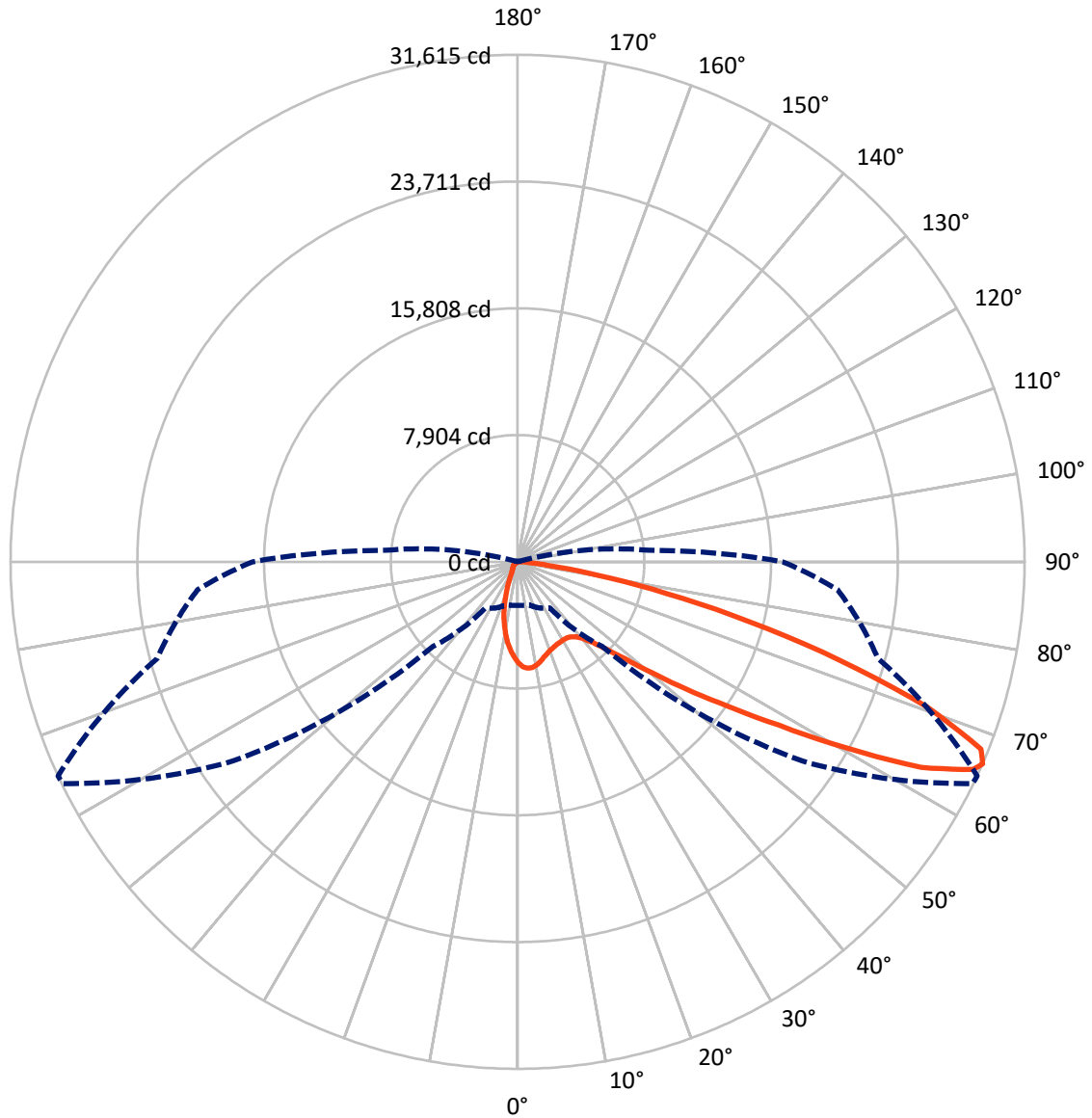
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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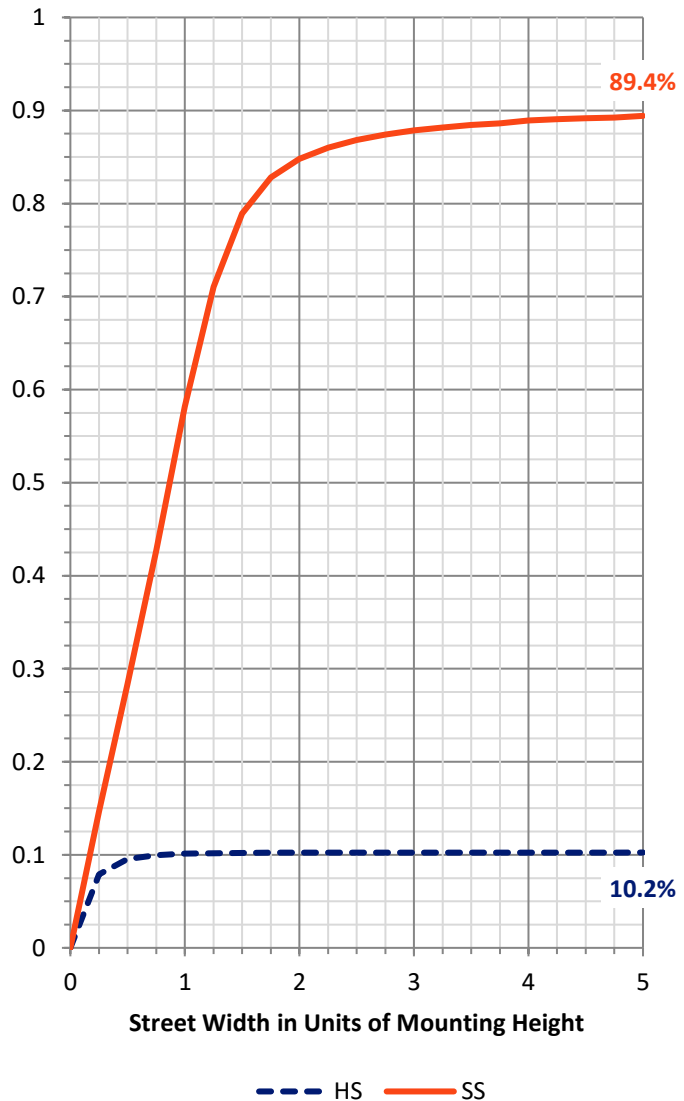
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2747.4	0.0	2747.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23819.8	0.0	23819.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	26567.2	0.0	26567.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.2	1.9
10°-20°	1122.7	4.2
20°-30°	1608.2	6.1
30°-40°	2348.9	8.8
40°-50°	3938.7	14.8
50°-60°	6573.1	24.7
60°-70°	6977.1	26.3
70°-80°	3159.9	11.9
80°-90°	323.3	1.2
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°	26567.2	100.0
0°-180°	26567.2	100.0

Coefficient of Utilization



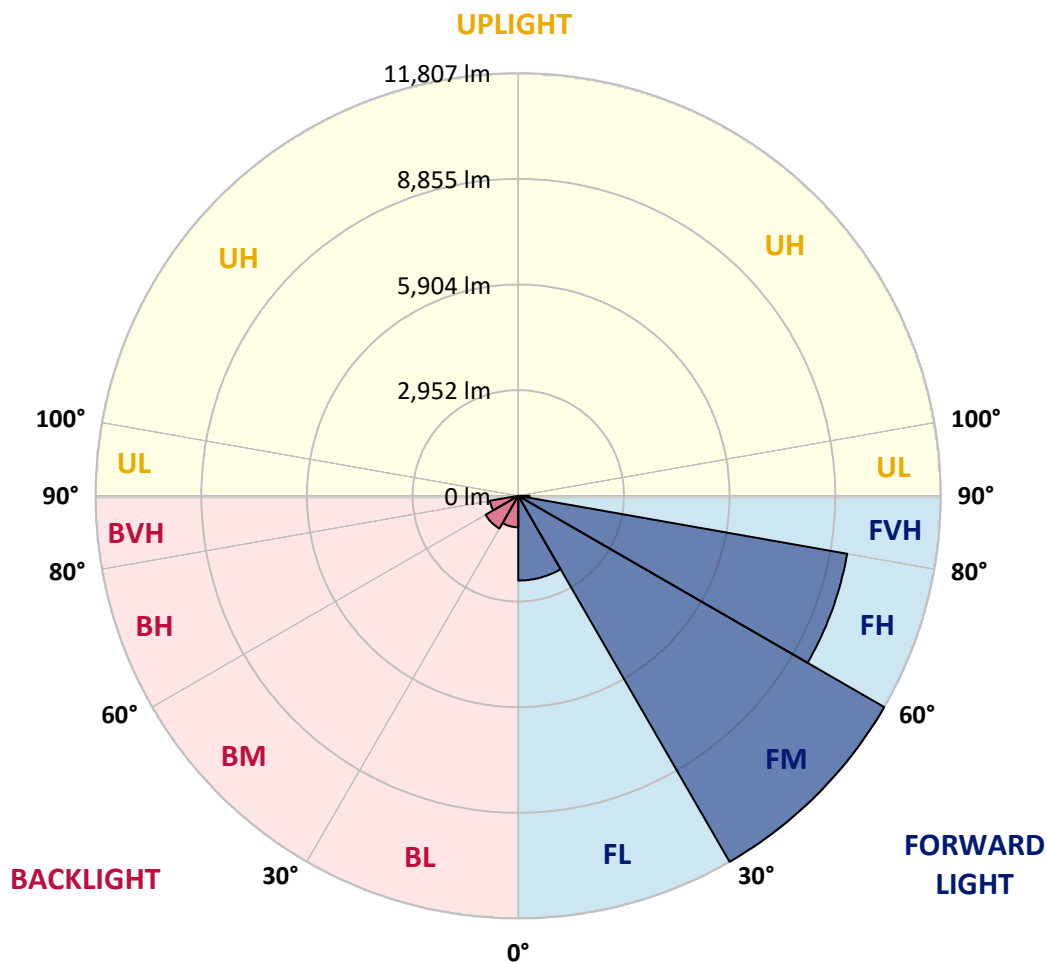
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2367.2	8.9			
FM (30°-60°)	11807.1	44.4			
FH (60°-80°)	9332.4	35.1			G4/12000
FVH (80°-90°)	313.0	1.2			G3/500
BL (0°-30°)	878.9	3.3	B2/1000		
BM (30°-60°)	1053.7	4.0	B2/2500		
BH (60°-80°)	804.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1
2.5°	6639.2	6646.3	6655.3	6667.9	6676.9	6649.9	6612.3	6569.2	6560.2	6468.8	6357.5
5°	6283.9	6294.7	6373.6	6416.7	6513.6	6601.6	6657.1	6664.3	6660.7	6574.6	6397.0
7.5°	5777.9	5808.4	5885.6	5960.9	6142.2	6309.0	6506.4	6644.6	6653.5	6630.2	6409.5
10°	5367.0	5386.7	5426.2	5575.1	5725.8	5980.6	6257.0	6517.1	6538.7	6632.0	6398.8
12.5°	5045.8	5074.5	5122.9	5237.8	5419.0	5659.4	5973.5	6323.4	6368.2	6597.9	6368.2
15°	4821.5	4835.9	4884.3	4997.3	5173.2	5395.7	5713.3	6120.6	6160.1	6553.1	6362.9
17.5°	4715.6	4731.7	4765.9	4855.6	5000.9	5207.3	5517.7	5957.3	6007.6	6524.3	6382.6
20°	4744.4	4758.7	4760.5	4807.2	4905.8	5079.9	5374.2	5804.8	5869.4	6506.4	6414.9
22.5°	4907.6	4909.4	4887.9	4866.3	4900.5	5026.1	5286.3	5707.9	5774.3	6502.8	6452.5
25°	5151.7	5157.1	5121.1	5045.8	4977.6	5042.2	5266.5	5645.1	5704.3	6493.9	6475.9
27.5°	5489.0	5487.2	5476.5	5350.9	5157.1	5114.0	5282.7	5611.1	5661.2	6468.8	6484.9
30°	5960.9	5946.6	5923.2	5781.5	5485.4	5288.1	5350.9	5589.5	5636.1	6432.8	6461.6
32.5°	6425.7	6479.5	6475.9	6341.4	5971.7	5598.4	5492.6	5618.2	5652.3	6409.5	6427.5
35°	6967.6	6965.8	7103.9	7053.7	6621.3	5995.0	5734.8	5713.3	5740.3	6425.7	6411.3
37.5°	7470.0	7516.6	7732.0	7784.0	7389.2	6554.9	6077.6	5917.8	5926.8	6535.2	6450.8
40°	8096.2	8186.0	8507.1	8681.2	8333.1	7385.6	6583.5	6292.9	6294.7	6804.3	6599.8
42.5°	8903.7	9045.5	9345.1	9635.8	9449.2	8369.0	7342.6	6886.8	6883.2	7278.0	6940.7
45°	9885.2	9984.0	10324.9	10786.0	10667.6	9741.7	8447.9	7807.4	7760.7	8055.0	7545.4
47.5°	10732.2	10866.8	11213.0	11738.8	12277.1	11417.6	9768.6	9072.4	9041.8	9291.3	8582.5
50°	11101.8	11220.2	11584.5	12322.0	13626.5	13617.5	11735.2	10918.8	10866.8	11001.3	10186.7
52.5°	10696.2	10807.5	11175.4	12094.1	14261.7	16298.3	14584.7	13235.4	13172.6	13000.3	12103.1
55°	9307.4	9399.0	9942.6	10997.7	14017.7	18085.5	18510.8	16097.4	15853.3	15184.0	14272.4
57.5°	7410.8	7364.1	7701.4	8927.1	12585.8	18684.9	22541.0	19662.8	19226.7	17071.7	16108.1
60°	5135.5	5279.1	5415.5	6222.9	9463.6	17645.9	25047.7	24145.1	23571.0	18928.9	17866.7
62.5°	3775.4	3870.4	3960.2	4333.4	5950.2	14089.5	25491.0	28749.5	28239.9	20900.9	19544.4
65°	2985.8	2993.0	3028.9	3396.7	3920.7	9162.1	23361.0	31346.0	31215.0	22799.4	20224.4
66°	2720.3	2722.1	2777.7	3172.5	3518.8	7461.1	21654.6	31543.4	31615.1	23255.1	20025.2
67.5°	2377.6	2370.4	2451.1	2851.3	3204.7	5379.5	18600.6	30743.1	31168.3	23605.0	19309.3
70°	1842.8	1833.9	1932.5	2391.9	2951.8	3588.7	12363.3	26397.1	27082.6	22889.0	17084.3
72.5°	1227.4	1234.6	1403.2	1887.7	2817.2	3159.9	7437.7	20080.9	21049.9	18902.0	13439.9
75°	716.0	728.5	920.5	1403.2	2445.7	3012.7	4209.6	14319.1	14938.2	13052.3	8372.5
77.5°	375.1	380.4	515.0	925.9	1875.1	2797.4	2804.6	9147.7	9438.4	6343.2	3314.2
80°	199.2	193.8	276.3	558.0	1290.1	2456.5	2275.2	4843.0	5035.0	1884.1	838.0
82.5°	75.4	82.5	147.1	366.1	762.6	1763.9	1959.5	2140.7	2074.3	414.5	351.7
85°	14.3	17.9	62.8	217.1	384.0	737.5	1444.5	1049.7	972.6	156.1	202.8
87.5°	1.8	3.6	17.9	52.1	55.6	249.4	427.0	290.7	251.2	57.4	84.3
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°	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1	6300.1
2.5°	6303.6	6255.2	6093.7	5934.0	5770.7	5623.6	5523.1	5359.8	5318.5	5259.3	5225.2
5°	6291.1	6178.0	5867.6	5528.4	5212.7	4871.7	4611.6	4360.4	4225.8	4157.6	4132.4
7.5°	6255.2	6075.8	5591.2	5060.1	4554.2	4044.5	3601.3	3263.9	3046.9	2897.9	2797.4
10°	6183.4	5935.8	5270.1	4539.8	3775.4	3102.5	2540.8	2113.8	1783.6	1679.5	1683.1
12.5°	6109.8	5779.7	4911.2	3962.0	3014.6	2165.8	1570.1	1232.8	1074.8	1022.8	1012.0
15°	6041.7	5630.8	4559.5	3402.1	2244.8	1403.2	1012.0	893.6	850.6	841.6	839.8
17.5°	6005.8	5492.6	4184.5	2761.6	1566.5	952.8	811.0	778.8	766.2	757.2	753.6
20°	5975.3	5372.4	3825.6	2162.3	1071.2	780.6	726.7	696.2	674.7	665.7	660.3
22.5°	5953.8	5248.5	3454.2	1674.1	820.0	692.6	644.2	604.7	574.2	563.4	556.2
25°	5921.4	5112.2	3079.1	1223.8	690.8	615.4	559.8	513.2	473.7	454.0	450.4
27.5°	5874.8	4957.9	2668.2	906.2	617.2	547.3	479.1	421.6	382.2	360.6	362.5
30°	5799.4	4796.3	2257.3	719.6	558.0	477.3	403.7	348.1	310.5	294.3	292.5
32.5°	5709.7	4600.8	1880.5	617.2	504.3	414.5	337.3	288.9	260.2	247.7	245.9
35°	5625.4	4403.4	1496.5	554.4	448.6	357.0	283.5	242.3	220.7	209.9	211.7
37.5°	5578.7	4227.6	1166.4	504.3	403.7	306.9	244.1	208.1	188.4	179.5	177.7
40°	5609.3	4084.0	927.7	459.4	353.5	263.8	209.9	179.5	159.7	147.1	147.1
42.5°	5752.8	4021.2	748.2	416.3	306.9	227.9	183.1	154.3	132.8	120.2	122.0
45°	6190.6	4087.6	626.2	376.9	263.8	197.4	157.9	127.4	107.7	98.7	96.9
47.5°	6917.3	4337.0	541.9	335.5	226.1	168.7	132.8	105.9	86.1	78.9	77.1
50°	8187.8	4852.0	479.1	294.3	192.0	143.5	109.5	84.3	68.2	61.0	61.0
52.5°	9935.5	5975.3	434.3	247.7	161.5	122.0	89.7	68.2	53.9	48.5	46.7
55°	11762.1	7159.6	410.9	208.1	134.6	100.5	71.8	53.9	41.3	35.9	34.1
57.5°	13518.8	8089.0	384.0	168.7	107.7	77.1	55.6	41.3	28.7	25.1	23.3
60°	15203.7	8840.9	326.6	134.6	84.3	55.6	41.3	28.7	19.7	16.1	16.1
62.5°	16711.0	9278.7	256.6	107.7	64.6	39.5	26.9	21.5	14.3	10.8	10.8
65°	16886.9	8709.9	193.8	82.5	46.7	25.1	16.1	16.1	10.8	7.2	7.2
66°	16533.4	8227.2	170.5	75.4	41.3	21.5	14.3	12.5	9.0	5.4	5.4
67.5°	15743.9	7403.6	147.1	64.6	34.1	16.1	10.8	10.8	7.2	3.6	3.6
70°	13603.2	6047.0	116.7	48.5	25.1	12.5	7.2	7.2	5.4	3.6	3.6
72.5°	10367.9	4514.6	95.1	35.9	17.9	9.0	5.4	5.4	5.4	3.6	3.6
75°	6253.4	2431.4	73.6	26.9	16.1	7.2	3.6	5.4	7.2	5.4	3.6
77.5°	2304.0	827.2	57.4	21.5	12.5	7.2	3.6	3.6	7.2	5.4	5.4
80°	565.2	215.3	41.3	17.9	12.5	7.2	3.6	3.6	7.2	7.2	7.2
82.5°	262.0	91.5	28.7	16.1	12.5	7.2	3.6	3.6	5.4	7.2	7.2
85°	150.7	43.1	23.3	17.9	12.5	7.2	3.6	3.6	5.4	7.2	7.2
87.5°	61.0	21.5	21.5	17.9	14.3	9.0	3.6	3.6	3.6	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

(END OF REPORT)