

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: P651633

Luminaire Tested: **GALN-SA9D-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34791.3 lumens
Efficiency: N/A
Efficacy: 63.0 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

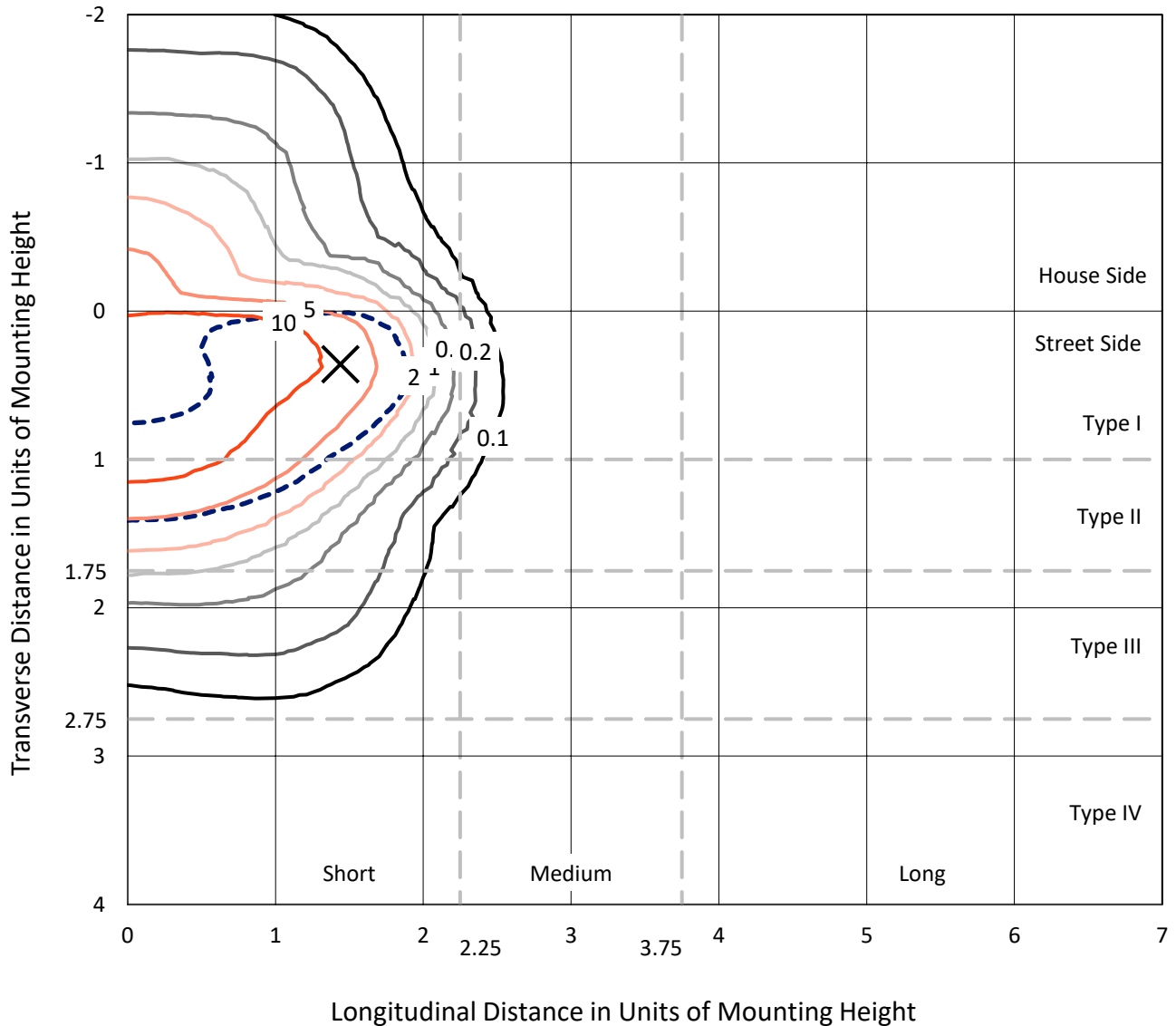
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651633
 CATALOG NUMBER: GALN-SA9D-840-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

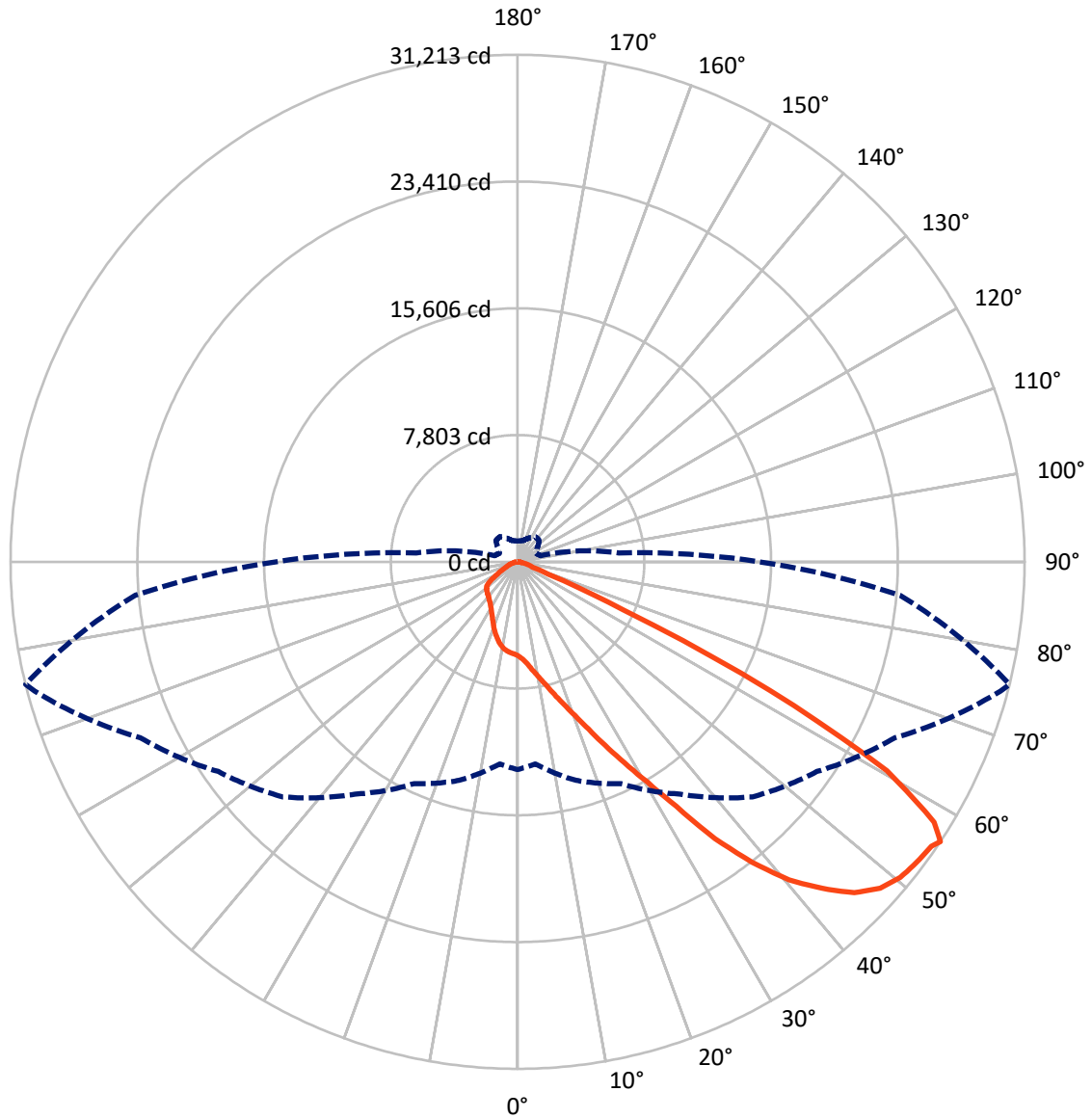
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9D-840-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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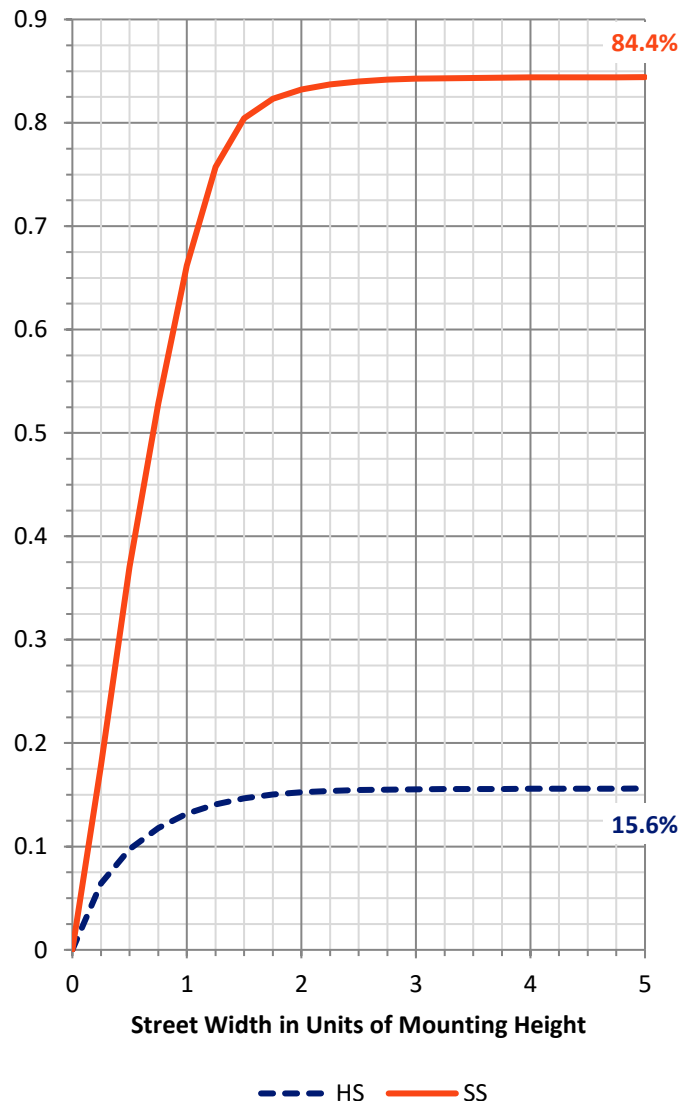
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5465.5	0.0	5465.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	29325.8	0.0	29325.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	34791.3	0.0	34791.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.4	1.7
10°-20°	1874.2	5.4
20°-30°	3398.3	9.8
30°-40°	5860.6	16.8
40°-50°	9520.7	27.4
50°-60°	10035.2	28.8
60°-70°	3066.2	8.8
70°-80°	393.1	1.1
80°-90°	59.8	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°	34791.3	100.0
0°-180°	34791.3	100.0

Coefficient of Utilization

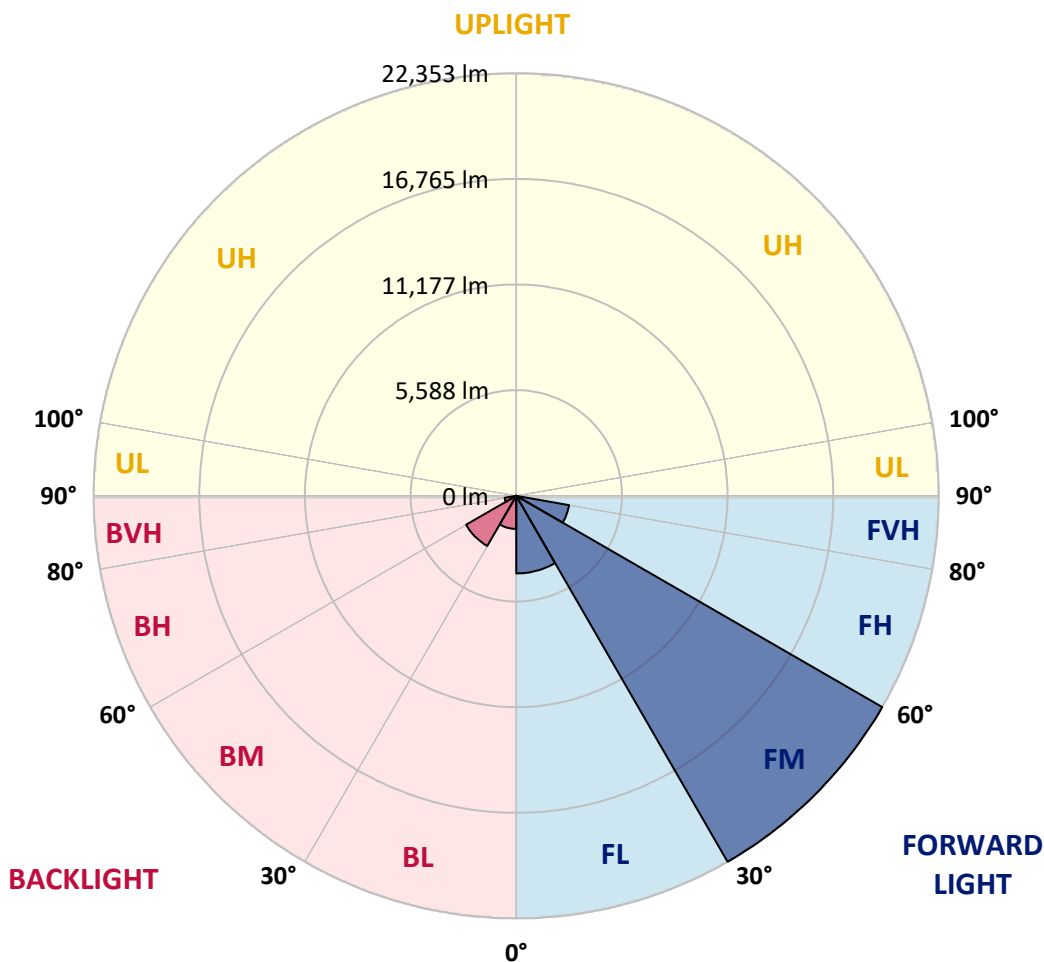


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4107.4	11.8			
FM (30°-60°)	22353.4	64.2			
FH (60°-80°)	2835.7	8.2			G2/5000
FVH (80°-90°)	29.3	0.1			G1/100
BL (0°-30°)	1748.4	5.0	B3/2500		
BM (30°-60°)	3063.1	8.8	B3/5000		
BH (60°-80°)	623.5	1.8	B2/1000		G2/1000
BVH (80°-90°)	30.5	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°	55°	65°	75°	76°	85°
0°	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0
2.5°	6669.6	6515.7	6522.2	6509.3	6490.1	6419.5	6207.9	6175.9	6034.8	5996.3	5868.0
5°	7471.3	7336.6	7413.6	7298.2	7189.1	7125.0	6778.7	6618.3	6393.9	6310.5	6131.0
7.5°	7971.5	7907.4	7881.8	7888.2	7785.6	7625.3	7471.3	7118.6	6817.1	6753.1	6374.7
10°	8215.2	8176.8	8215.2	8196.0	8240.9	8260.1	7990.8	7779.2	7336.6	7227.6	6637.6
12.5°	8272.9	8350.0	8382.0	8465.3	8574.4	8760.4	8741.1	8452.6	7862.5	7791.9	7041.6
15°	8414.0	8478.2	8446.1	8580.8	8786.0	9100.3	9267.0	9222.1	8587.2	8458.9	7509.8
17.5°	8542.3	8426.9	8535.9	8805.3	9010.5	9491.4	9895.5	10081.5	9376.1	9228.5	7939.5
20°	8715.5	8683.4	8664.2	8798.8	9164.4	9805.7	10607.4	10947.2	10261.0	10107.1	8555.2
22.5°	9241.3	9247.7	9234.9	9036.1	9299.0	10023.7	11229.5	12069.5	11319.2	11190.9	9254.2
25°	9934.0	9850.5	9786.5	9626.2	9594.0	10222.5	11857.9	13442.0	12589.0	12499.2	10010.9
27.5°	10665.1	10665.1	10472.6	10325.1	10119.9	10716.4	12435.1	14775.9	14121.7	13999.9	10671.4
30°	11460.3	11505.2	11479.6	11165.3	11037.0	11255.1	13025.1	16481.7	15878.9	15725.0	11761.7
32.5°	12633.9	12537.7	12646.7	12383.8	12005.4	12197.8	13955.0	18008.1	18162.0	17944.0	13191.8
35°	14185.9	14128.1	14057.7	13627.9	13179.0	13333.0	15269.7	19887.1	21028.7	20919.7	14634.8
37.5°	15577.5	15545.5	15487.8	15192.7	14673.3	14859.3	16764.0	21843.2	23824.9	23465.7	16674.2
40°	17039.8	17212.9	17026.9	16764.0	16289.4	16699.8	18521.2	23004.0	26178.5	25742.3	18232.5
42.5°	19021.4	18886.7	18970.1	18489.1	18232.5	18681.5	20284.8	24164.7	28006.2	27486.7	19887.1
45°	21131.3	21137.7	20913.2	20759.3	20092.4	20579.8	21368.6	24806.1	29462.0	29058.0	21137.7
47.5°	22484.5	22478.1	22721.8	22965.4	22279.3	21798.3	22106.1	25415.3	30212.3	30026.3	21593.1
50°	22272.9	22337.0	22651.2	23561.9	23921.1	23273.3	22798.8	25235.7	30552.2	30533.0	21984.2
52.5°	19374.1	19585.7	20111.6	21426.3	23234.8	24036.5	23523.4	25569.2	30719.0	30751.0	22567.8
55°	14750.2	14865.7	15866.1	17463.0	19463.9	22208.7	23234.8	25832.2	30847.2	30904.9	23273.3
56°	12794.2	12486.4	13929.3	15064.5	17456.6	20457.9	22503.7	25627.0	30770.3	31212.8	23626.0
57.5°	9658.2	9453.0	10620.1	12037.5	14339.8	17507.9	20233.5	24658.5	30250.8	30244.4	23119.3
60°	5874.5	5669.2	6567.0	7400.8	8689.8	10780.5	13672.8	19637.0	25575.7	26114.3	18720.0
62.5°	3495.2	3623.4	4508.4	5015.1	5431.9	5650.0	7073.7	11671.9	17065.4	17450.2	11614.2
65°	2328.0	2372.9	3039.8	3873.6	4059.5	3232.2	2879.5	4726.5	7400.8	7163.5	4790.6
67.5°	1436.5	1539.1	2039.3	2911.5	3225.8	2360.0	1366.0	1763.6	2039.3	2039.3	1385.2
70°	872.2	923.5	1359.6	1981.6	2212.5	1519.9	994.1	994.1	981.2	961.9	827.3
72.5°	416.9	448.9	692.6	1019.7	1038.9	801.6	769.6	840.2	820.9	814.5	686.2
75°	179.6	192.4	243.7	320.7	365.6	339.9	468.2	602.8	622.1	602.8	493.8
77.5°	57.7	64.2	89.8	115.5	121.9	147.5	198.8	250.1	288.6	269.4	243.7
80°	6.4	12.9	25.7	57.7	89.8	115.5	147.5	166.8	185.9	185.9	173.2
82.5°	6.4	6.4	25.7	51.3	83.3	109.0	141.1	160.3	185.9	192.4	179.6
85°	0.0	6.4	19.3	44.9	70.6	70.6	64.2	64.2	44.9	44.9	44.9
87.5°	0.0	0.0	6.4	6.4	6.4	12.9	12.9	12.9	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651633

CATALOG NUMBER: GALN-SA9D-840-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0	5791.0
2.5°	5842.3	5829.6	5656.4	5547.4	5489.6	5374.2	5303.7	5252.4	5213.9	5169.0	5175.4
5°	5919.3	5874.5	5585.8	5387.0	5149.8	5021.5	4912.4	4822.7	4764.9	4752.2	4726.5
7.5°	6137.4	5900.1	5464.0	5104.9	4803.5	4675.2	4579.0	4521.3	4547.0	4489.2	4534.1
10°	6304.1	5951.4	5316.5	4797.1	4495.6	4399.4	4348.1	4393.0	4457.1	4431.5	4399.4
12.5°	6509.3	6002.7	5079.2	4502.0	4219.9	4149.3	4239.1	4322.5	4450.7	4502.0	4437.9
15°	6740.2	6060.4	4777.8	4162.1	3982.6	4040.2	4194.2	4341.7	4470.0	4534.1	4572.6
17.5°	7022.4	6041.2	4482.8	3892.7	3758.1	3924.9	4110.8	4245.5	4437.9	4534.1	4508.4
20°	7285.3	5977.1	4155.7	3623.4	3629.8	3783.7	3937.6	4155.7	4258.3	4386.6	4341.7
22.5°	7535.4	5861.6	3815.8	3437.4	3437.4	3674.7	3751.7	3892.7	3982.6	4046.7	4040.2
25°	7888.2	5643.5	3533.6	3257.9	3334.8	3488.7	3552.9	3597.8	3559.3	3610.6	3617.0
27.5°	8138.3	5419.1	3302.8	3097.6	3238.6	3354.1	3334.8	3309.2	3219.4	3148.9	3193.8
30°	8407.6	5156.2	3104.0	2988.5	3065.4	3168.1	3091.1	3014.1	2873.1	2757.6	2764.0
32.5°	8792.4	5034.3	2930.8	2860.2	2962.8	2975.7	2892.4	2776.9	2635.8	2526.8	2520.4
35°	9510.7	4957.4	2783.3	2776.9	2796.2	2802.5	2719.2	2578.1	2520.4	2430.6	2462.6
37.5°	10229.0	4918.8	2680.7	2655.0	2648.6	2655.0	2558.8	2424.2	2533.2	2526.8	2539.6
40°	11146.0	5092.0	2533.2	2501.1	2507.5	2507.5	2385.7	2347.2	2539.6	2558.8	2565.2
42.5°	12075.9	5310.1	2437.0	2334.4	2360.0	2360.0	2295.9	2251.0	2385.7	2257.4	2238.2
45°	12884.0	5630.7	2334.4	2167.7	2231.8	2263.8	2244.6	2167.7	2084.3	1866.3	1866.3
47.5°	13146.9	5912.9	2212.5	2007.3	2058.6	2199.7	2142.0	1981.6	1834.1	1654.6	1641.8
50°	13608.7	6220.7	2116.4	1821.4	1930.3	2103.5	2045.8	1885.4	1718.8	1590.5	1596.9
52.5°	14083.3	6573.5	1936.7	1603.3	1737.9	2026.6	2026.6	1847.0	1590.5	1500.7	1487.8
55°	14795.1	6560.6	1616.1	1314.7	1552.0	1911.1	1943.2	1654.6	1423.7	1353.2	1353.2
56°	14897.7	6265.6	1455.8	1231.3	1468.6	1879.0	1885.4	1603.3	1359.6	1282.6	1282.6
57.5°	14128.1	5656.4	1276.2	1128.7	1366.0	1821.4	1827.7	1558.4	1308.3	1199.3	1186.4
60°	10870.3	3828.7	1064.6	1006.8	1237.7	1641.8	1673.8	1417.3	1148.0	1064.6	1058.1
62.5°	6137.4	2122.8	936.3	910.6	1064.6	1398.1	1494.3	1237.7	974.8	929.9	942.8
65°	2802.5	1167.2	788.9	737.5	859.3	1077.4	1205.7	1019.7	801.6	750.3	750.3
67.5°	1026.1	795.2	673.4	583.6	602.8	699.0	782.4	660.5	532.3	455.3	474.6
70°	731.1	667.0	590.0	506.6	468.2	455.3	448.9	372.0	263.0	205.2	218.1
72.5°	590.0	551.5	493.8	429.7	365.6	307.8	263.0	192.4	121.9	83.3	77.0
75°	423.3	404.0	359.1	307.8	256.5	218.1	179.6	121.9	64.2	32.0	32.0
77.5°	218.1	218.1	211.6	192.4	160.3	128.3	102.6	70.6	38.5	12.9	12.9
80°	166.8	179.6	185.9	166.8	147.5	115.5	83.3	51.3	25.7	6.4	6.4
82.5°	160.3	185.9	198.8	173.2	147.5	109.0	83.3	51.3	25.7	6.4	6.4
85°	38.5	38.5	57.7	64.2	83.3	89.8	70.6	44.9	19.3	6.4	6.4
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	6.4	6.4	6.4	6.4	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)