

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: P648609

Luminaire Tested: **GALN-SA8B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30177.6 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

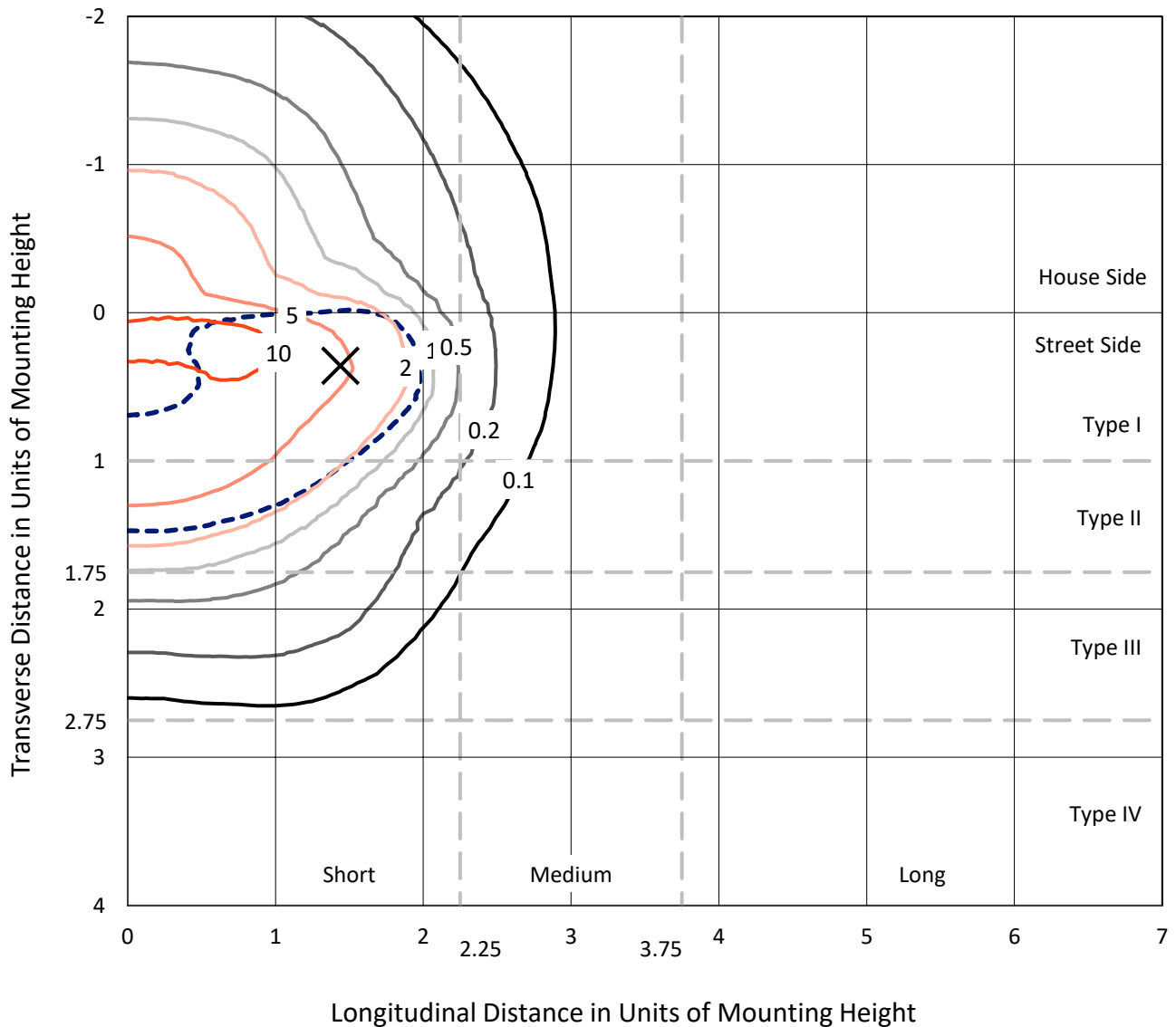
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA8B-835-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

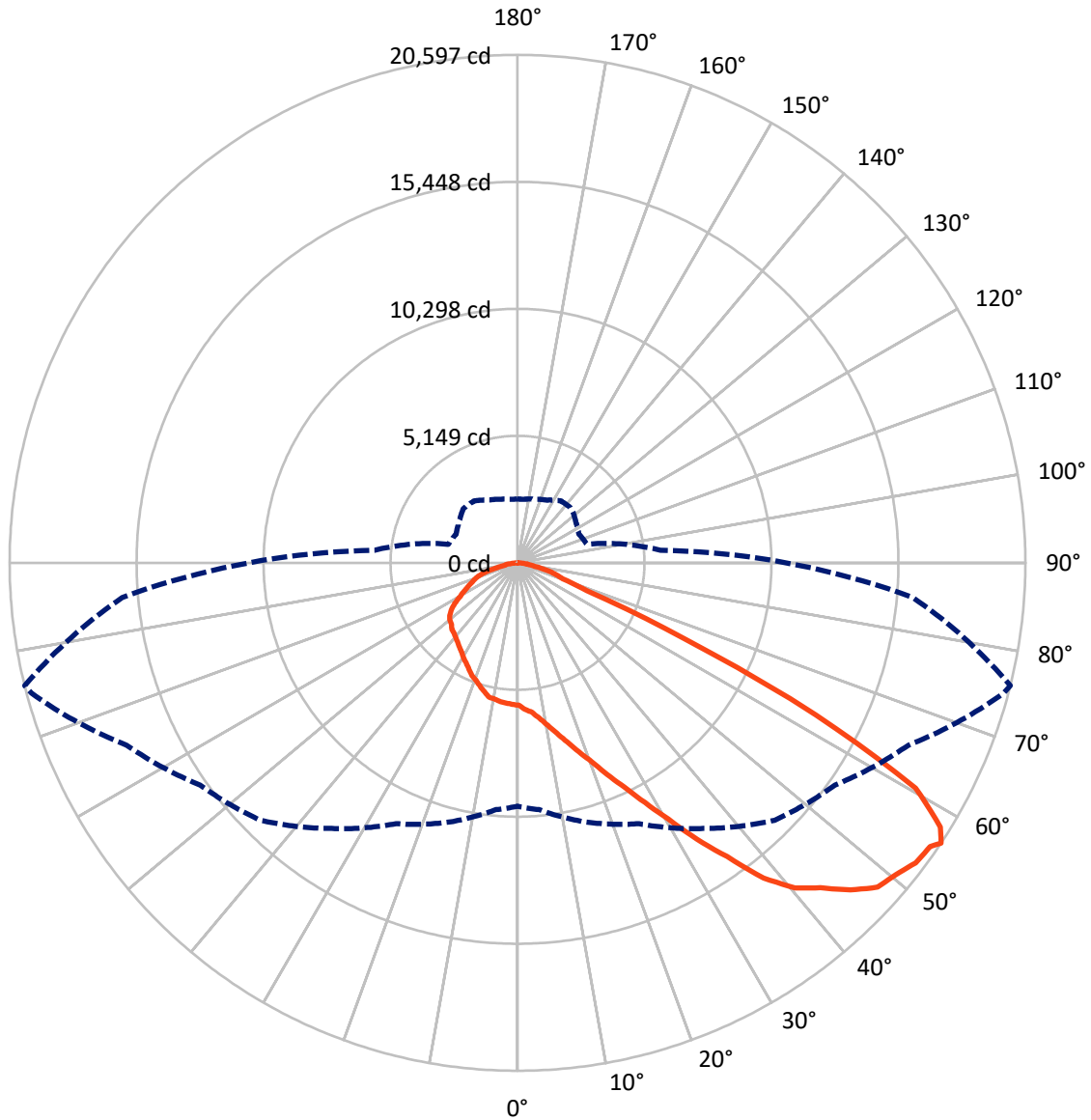
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

REPORT NUMBER: P648609
CATALOG NUMBER: GALN-SA8B-835-U-T2-GRSWH

Luminous Intensity Polar Plot



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

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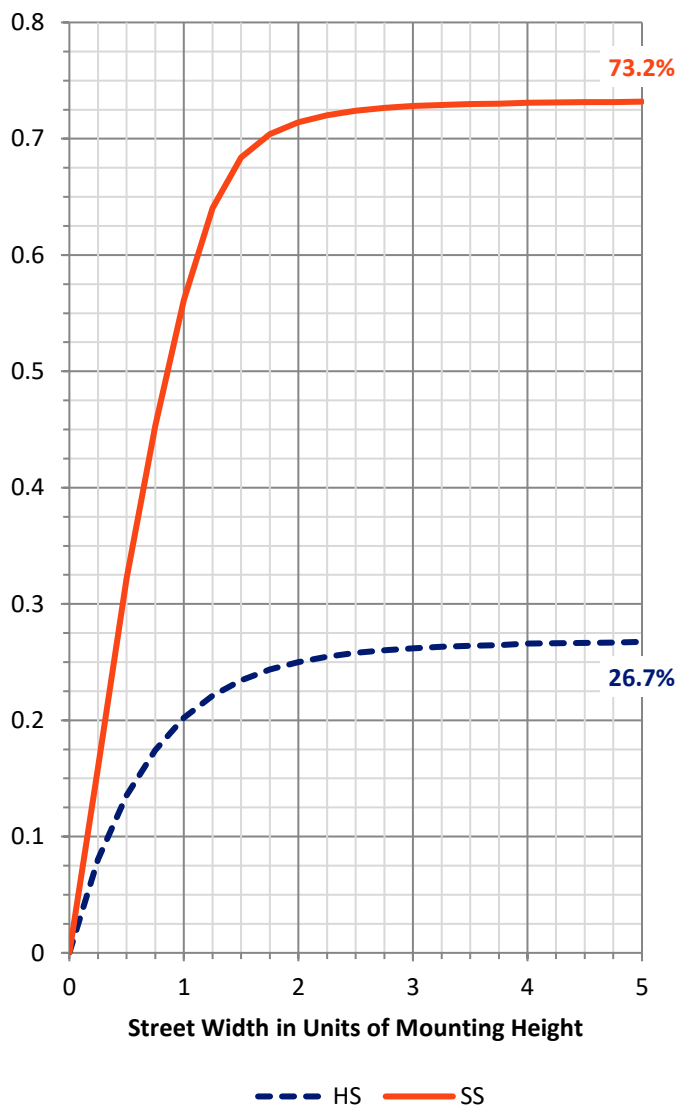
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8113.9	0.0	8113.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22063.8	0.0	22063.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	30177.6	0.0	30177.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.6	1.9
10°-20°	1798.8	6.0
20°-30°	3145.8	10.4
30°-40°	4925.4	16.3
40°-50°	7165.1	23.7
50°-60°	7874.9	26.1
60°-70°	3515.0	11.6
70°-80°	1015.3	3.4
80°-90°	164.7	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°	30177.6	100.0
0°-180°	30177.6	100.0

Coefficient of Utilization

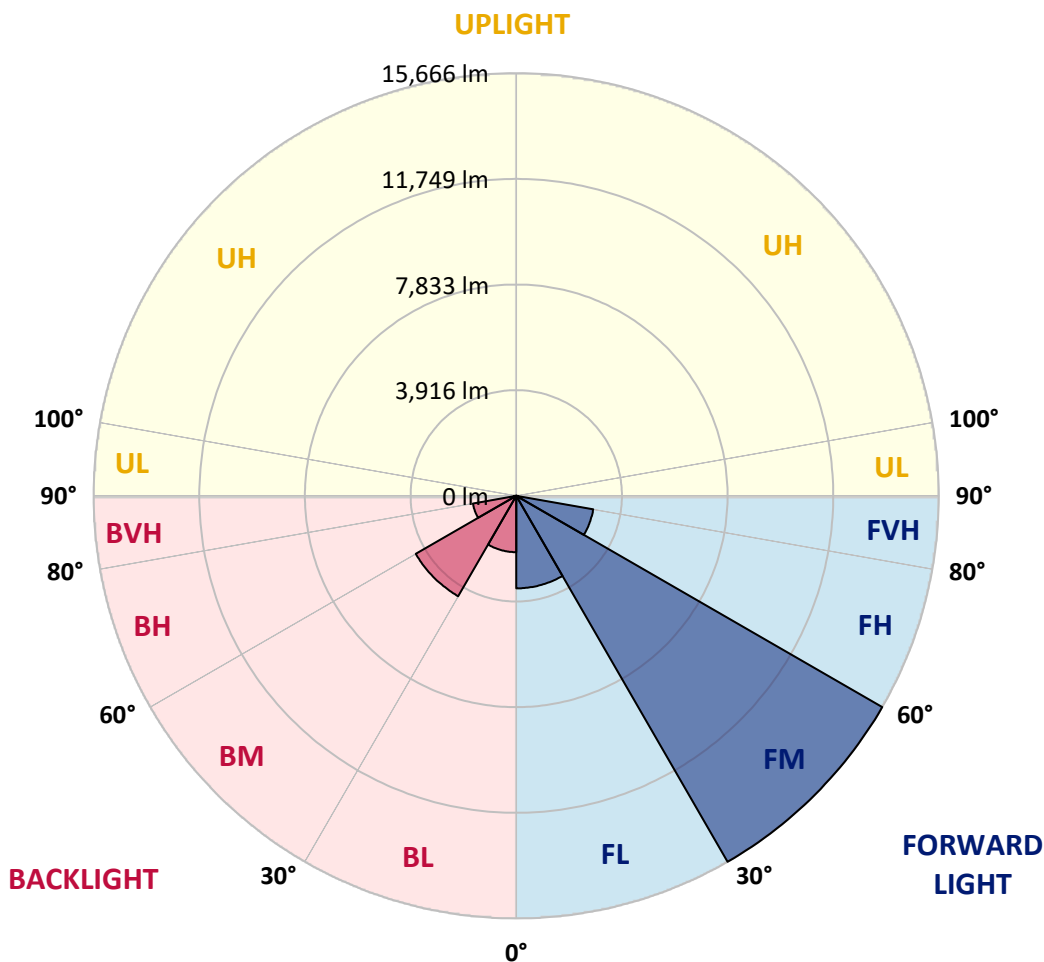


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3429.3	11.4			
FM (30°-60°)	15665.8	51.9			
FH (60°-80°)	2897.8	9.6			G2/5000
FVH (80°-90°)	70.9	0.2			G1/100
BL (0°-30°)	2087.9	6.9	B3/2500		
BM (30°-60°)	4299.7	14.2	B3/5000		
BH (60°-80°)	1632.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	93.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1
2.5°	6360.9	6259.1	6251.4	6224.0	6239.6	6169.2	6094.9	5997.1	5895.4	5957.9	5809.3
5°	6806.9	6669.9	6724.7	6630.8	6642.6	6548.7	6396.1	6282.6	6157.4	6083.1	5977.5
7.5°	6963.4	6975.0	7014.2	6998.5	6920.3	6920.3	6818.6	6619.1	6400.0	6357.0	6180.9
10°	7174.6	7178.5	7135.5	7147.2	7256.8	7205.9	7115.9	7029.9	6748.2	6697.3	6384.3
12.5°	7248.9	7178.5	7248.9	7311.5	7440.6	7511.0	7491.4	7428.9	7127.6	7092.4	6634.8
15°	7260.7	7217.6	7276.3	7417.1	7530.6	7827.9	7976.6	7933.5	7534.5	7538.4	6916.4
17.5°	7205.9	7264.6	7288.0	7409.3	7671.4	7949.2	8379.5	8438.2	8109.5	8058.7	7272.4
20°	7280.2	7237.2	7268.5	7378.0	7726.2	8160.4	8723.7	9111.0	8649.4	8614.2	7640.1
22.5°	7565.8	7507.1	7499.3	7569.7	7820.1	8270.0	9087.6	9783.9	9306.7	9326.2	8097.8
25°	7788.7	7820.1	7792.7	7788.7	7945.3	8434.2	9568.7	10585.8	10198.6	10085.1	8637.7
27.5°	8172.2	8246.5	8191.7	8266.1	8230.8	8680.7	9913.0	11473.8	11160.9	11008.4	9126.6
30°	8704.1	8743.3	8692.5	8692.5	8586.8	9024.9	10226.0	12401.0	12271.9	12064.5	9701.8
32.5°	9404.5	9463.1	9361.4	9302.7	9287.1	9537.4	10789.3	13316.4	13535.5	13359.5	10464.6
35°	10331.5	10296.4	10175.1	10120.4	9909.1	10323.8	11626.5	14368.8	14943.8	14630.8	11387.8
37.5°	11149.1	11094.4	11086.6	10781.4	10832.3	11172.6	12338.4	15166.8	16309.1	16219.1	12361.9
40°	11912.0	11962.8	12045.0	11872.9	11794.6	12170.2	13167.8	15777.1	17369.2	17334.1	13113.0
42.5°	12729.6	12682.6	12827.4	12682.6	12565.3	13097.3	14067.5	16199.6	18300.3	18010.8	13899.3
45°	13914.9	13766.3	13817.1	13828.9	13742.8	13938.4	14439.1	16504.7	18953.6	18922.3	14474.4
47.5°	14904.7	14908.6	14822.5	14756.0	14494.0	14689.5	14853.8	16696.4	19704.7	19653.8	14697.4
50°	15272.4	15221.5	15471.9	15616.7	15632.3	15233.3	15178.5	16802.0	20099.8	19876.8	14920.3
52.5°	13950.2	13997.1	14392.2	15252.8	15749.7	15792.7	15558.0	17021.1	20260.2	20213.2	15100.3
55°	11227.4	11454.3	12103.7	13097.3	14274.9	15569.7	15968.7	17247.9	20346.3	20307.1	15898.3
56°	9869.9	10046.0	10891.0	11669.4	13148.2	14759.9	15710.6	17490.5	20412.7	20596.7	16086.1
57.5°	7945.3	8148.7	8755.0	9639.1	11383.9	13218.6	14998.6	17193.2	20154.6	20225.0	16223.1
60°	4968.2	4987.8	5715.4	6298.3	7526.7	9318.3	11446.5	14959.4	18652.4	18550.7	14572.2
62.5°	3258.7	3262.6	3923.7	4401.0	4960.4	5371.1	6736.5	9920.8	13762.4	13582.5	10374.6
65°	2288.6	2339.4	2851.8	3489.5	3716.4	3501.3	3458.2	5230.4	7687.0	7428.9	5574.6
67.5°	1674.4	1678.3	2132.0	2816.6	3145.2	2664.1	2163.4	2554.5	3043.5	3035.7	2581.9
70°	1107.1	1154.1	1502.2	2104.6	2480.2	2139.9	1768.2	1826.9	1936.4	1936.4	1920.8
72.5°	645.5	688.5	919.3	1334.0	1392.6	1337.9	1400.5	1564.8	1635.2	1631.3	1611.7
75°	367.7	387.3	438.2	555.5	692.4	817.6	1028.9	1185.3	1255.8	1298.8	1247.9
77.5°	215.2	226.9	258.2	316.9	359.9	442.1	559.5	668.9	762.9	751.1	759.0
80°	113.5	113.5	144.8	187.8	250.4	313.0	371.6	434.3	485.1	496.8	508.6
82.5°	66.5	70.4	93.9	136.9	179.9	223.0	285.6	328.6	375.5	379.4	387.3
85°	35.2	39.2	58.6	90.0	121.3	136.9	140.9	133.0	144.8	136.9	156.4
87.5°	11.7	11.7	19.6	15.7	15.7	19.6	23.5	23.5	31.3	31.3	31.3
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°	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1	5774.1
2.5°	5805.4	5805.4	5738.9	5613.7	5594.1	5543.3	5496.3	5492.4	5457.2	5426.0	5410.3
5°	5914.9	5793.7	5695.9	5582.4	5449.4	5386.8	5316.4	5238.2	5206.9	5238.2	5234.3
7.5°	6040.1	5938.4	5645.0	5433.8	5281.2	5218.6	5140.3	5058.2	5066.0	5066.0	5011.3
10°	6161.3	6024.5	5555.0	5285.1	5062.1	5015.2	4972.1	5003.4	5042.5	5050.4	5015.2
12.5°	6364.8	6055.7	5512.0	5136.5	4995.6	4893.9	4921.3	5007.4	5089.5	5066.0	5093.4
15°	6517.4	6083.1	5316.4	4983.9	4807.9	4854.8	4952.6	5011.3	5148.1	5132.6	5159.9
17.5°	6666.0	6098.8	5124.7	4780.4	4706.1	4835.2	4909.6	5077.8	5120.8	5214.7	5249.9
20°	6971.1	6130.1	4929.1	4655.2	4631.8	4780.4	4909.6	4987.8	5081.7	5163.8	5163.8
22.5°	7127.6	6114.4	4800.0	4491.0	4565.3	4659.2	4776.5	4909.6	4909.6	4987.8	4991.7
25°	7323.2	6051.9	4596.6	4412.8	4467.5	4557.5	4690.5	4643.5	4694.4	4694.4	4757.0
27.5°	7546.2	5918.9	4420.6	4271.9	4381.4	4479.2	4498.8	4467.5	4408.8	4401.0	4377.5
30°	7726.2	5754.5	4291.5	4224.9	4315.0	4369.7	4307.1	4240.6	4138.9	4131.0	4076.3
32.5°	7972.7	5551.1	4131.0	4107.6	4209.3	4213.2	4193.7	4092.0	3943.3	3880.7	3818.1
35°	8387.3	5433.8	4009.8	4045.0	4076.3	4064.6	4029.3	3919.8	3771.2	3743.8	3720.3
37.5°	8692.5	5347.7	3884.6	3927.6	3955.0	3970.7	3865.0	3743.8	3747.7	3692.9	3677.3
40°	9036.7	5292.9	3782.9	3802.5	3806.4	3857.2	3728.1	3669.5	3696.9	3661.6	3685.1
42.5°	9478.8	5308.6	3677.3	3661.6	3735.9	3716.4	3653.8	3575.6	3591.2	3485.6	3501.3
45°	9713.5	5414.2	3614.6	3544.2	3626.4	3622.5	3540.3	3466.0	3372.1	3168.7	3176.6
47.5°	9869.9	5441.6	3466.0	3419.0	3505.2	3556.0	3462.1	3290.0	3157.0	3012.2	2977.0
50°	10030.3	5492.4	3395.6	3297.8	3333.0	3454.3	3336.9	3172.6	3043.5	2914.4	2934.0
52.5°	10171.2	5590.2	3258.7	3113.9	3176.6	3309.5	3246.9	3047.4	2906.6	2800.9	2769.7
55°	10797.1	5809.3	3027.9	2840.1	2988.8	3157.0	3121.7	2879.2	2726.6	2671.9	2664.1
56°	10894.9	5817.1	2906.6	2746.2	2883.2	3106.1	3063.1	2804.9	2668.0	2581.9	2585.9
57.5°	10910.6	5723.3	2734.5	2660.2	2777.5	3031.8	2977.0	2746.2	2558.5	2480.2	2456.7
60°	9600.0	4467.5	2519.3	2472.4	2609.3	2804.9	2785.4	2585.9	2374.6	2284.6	2327.6
62.5°	6544.8	3274.3	2351.1	2343.3	2413.7	2605.4	2554.5	2374.6	2198.5	2139.9	2112.5
65°	3810.3	2484.1	2186.8	2155.5	2214.2	2315.9	2351.1	2163.4	1979.5	1940.4	1928.6
67.5°	2249.4	2053.8	1975.6	1924.7	1905.1	1967.8	1995.1	1885.5	1701.7	1647.0	1693.9
70°	1881.7	1826.9	1830.8	1744.8	1697.8	1654.8	1631.3	1533.5	1380.9	1310.5	1290.9
72.5°	1623.5	1600.0	1584.3	1506.1	1463.1	1365.3	1263.6	1165.8	1052.4	993.6	997.5
75°	1240.1	1232.3	1240.1	1201.0	1126.7	1048.4	954.6	829.4	743.3	668.9	684.6
77.5°	739.4	762.9	774.5	759.0	727.6	657.3	598.5	516.4	434.3	375.5	367.7
80°	508.6	528.1	547.7	528.1	496.8	446.0	383.4	320.8	262.1	230.8	223.0
82.5°	387.3	406.8	418.6	399.0	359.9	305.1	262.1	219.1	172.1	140.9	133.0
85°	140.9	160.4	156.4	187.8	203.4	195.6	168.2	129.1	97.8	70.4	66.5
87.5°	39.2	35.2	39.2	39.2	39.2	35.2	31.3	31.3	31.3	19.6	15.7
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)