

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: P647106

Luminaire Tested: **GALN-SA8C-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647106
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-SA8C-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA 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: 36380.5 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

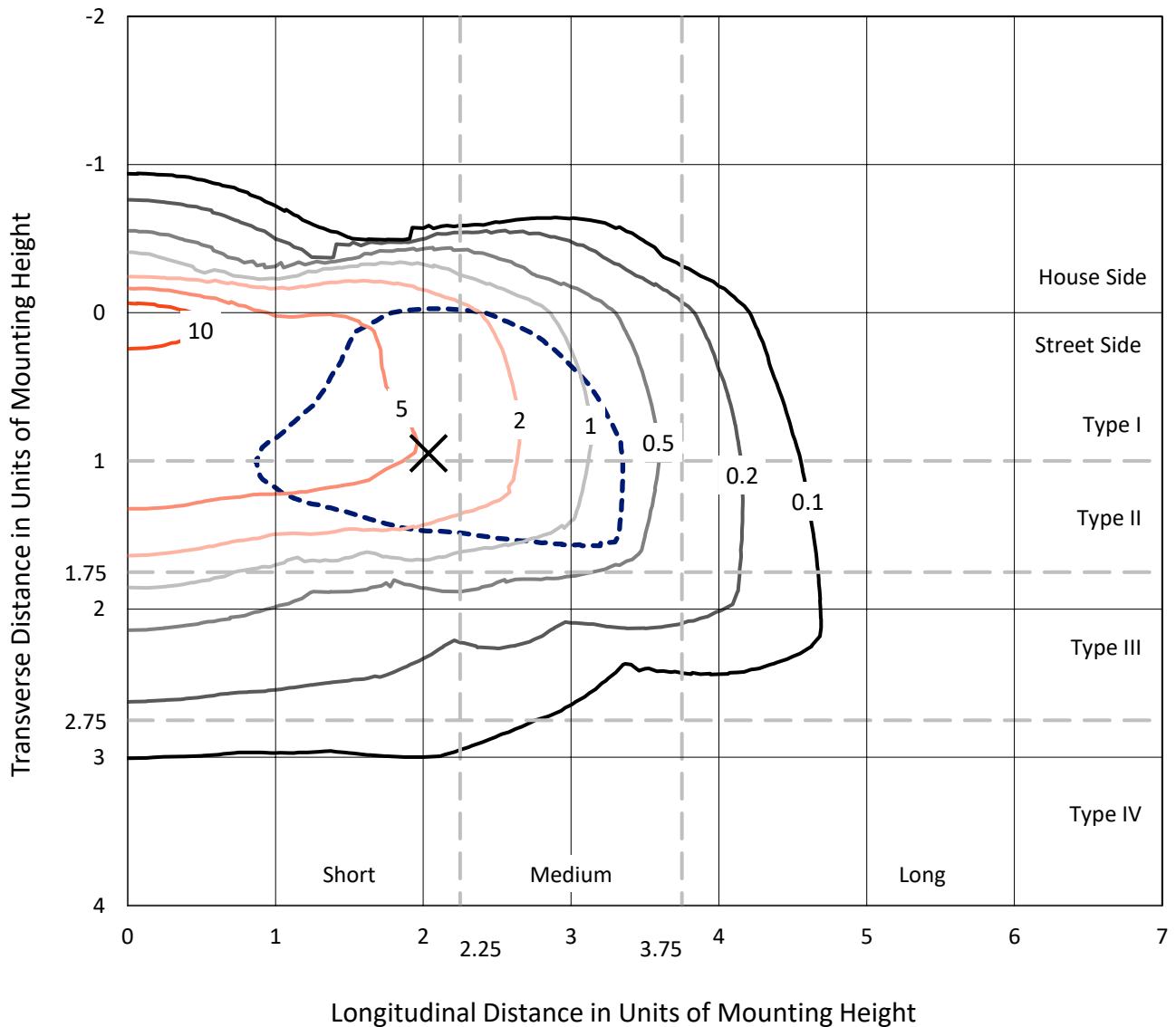
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

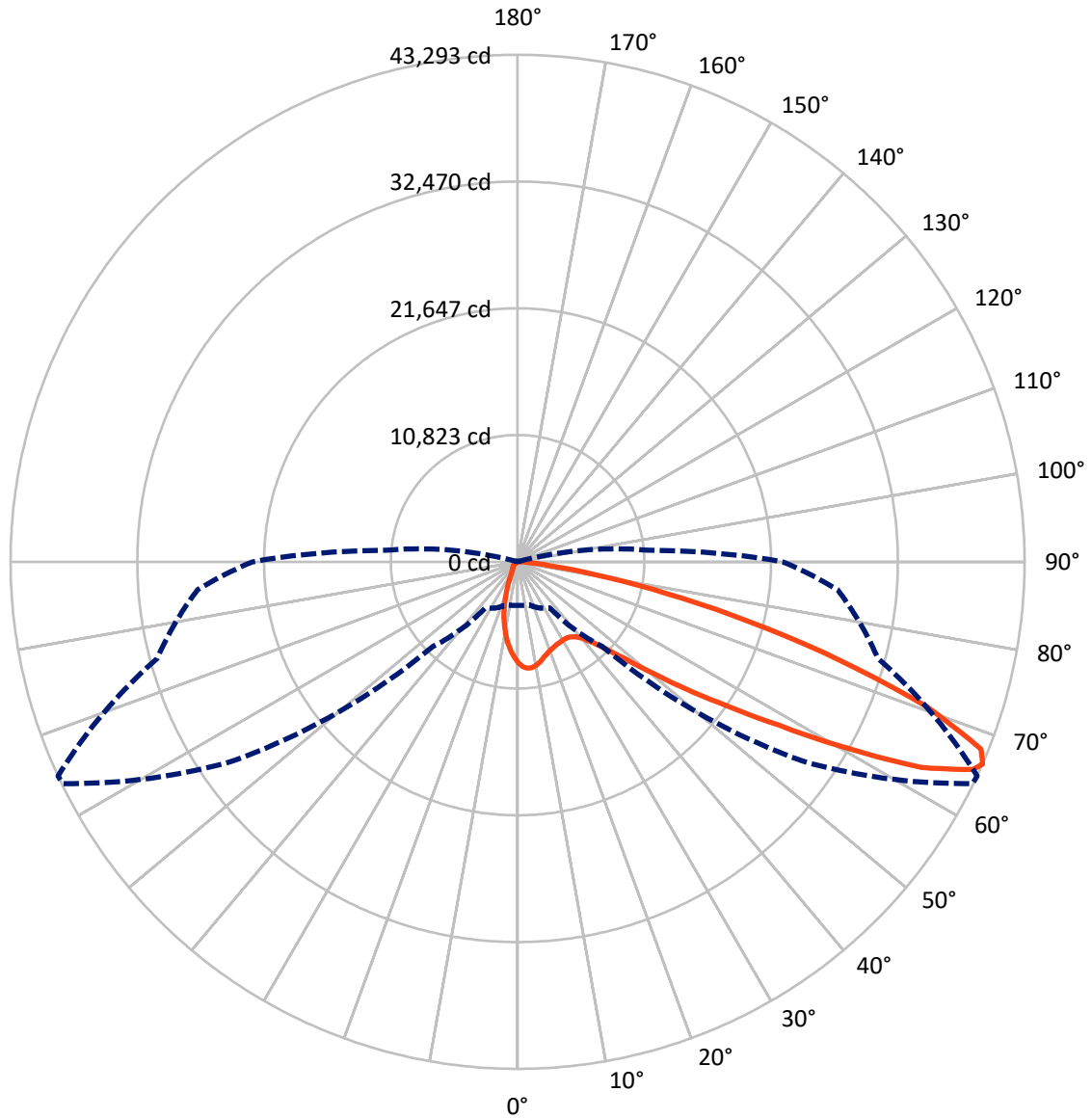
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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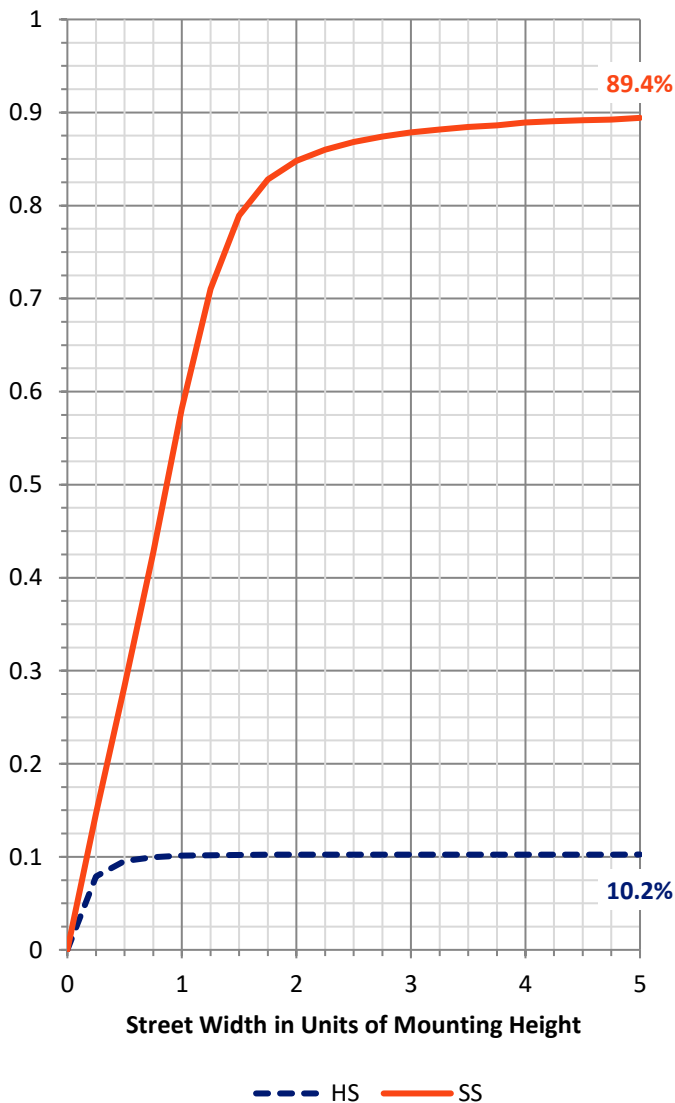
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3762.3	0.0	3762.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	32618.3	0.0	32618.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	36380.5	0.0	36380.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.6	1.9
10°-20°	1537.3	4.2
20°-30°	2202.2	6.1
30°-40°	3216.6	8.8
40°-50°	5393.6	14.8
50°-60°	9001.0	24.7
60°-70°	9554.3	26.3
70°-80°	4327.1	11.9
80°-90°	442.8	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°	36380.5	100.0
0°-180°	36380.5	100.0

Coefficient of Utilization

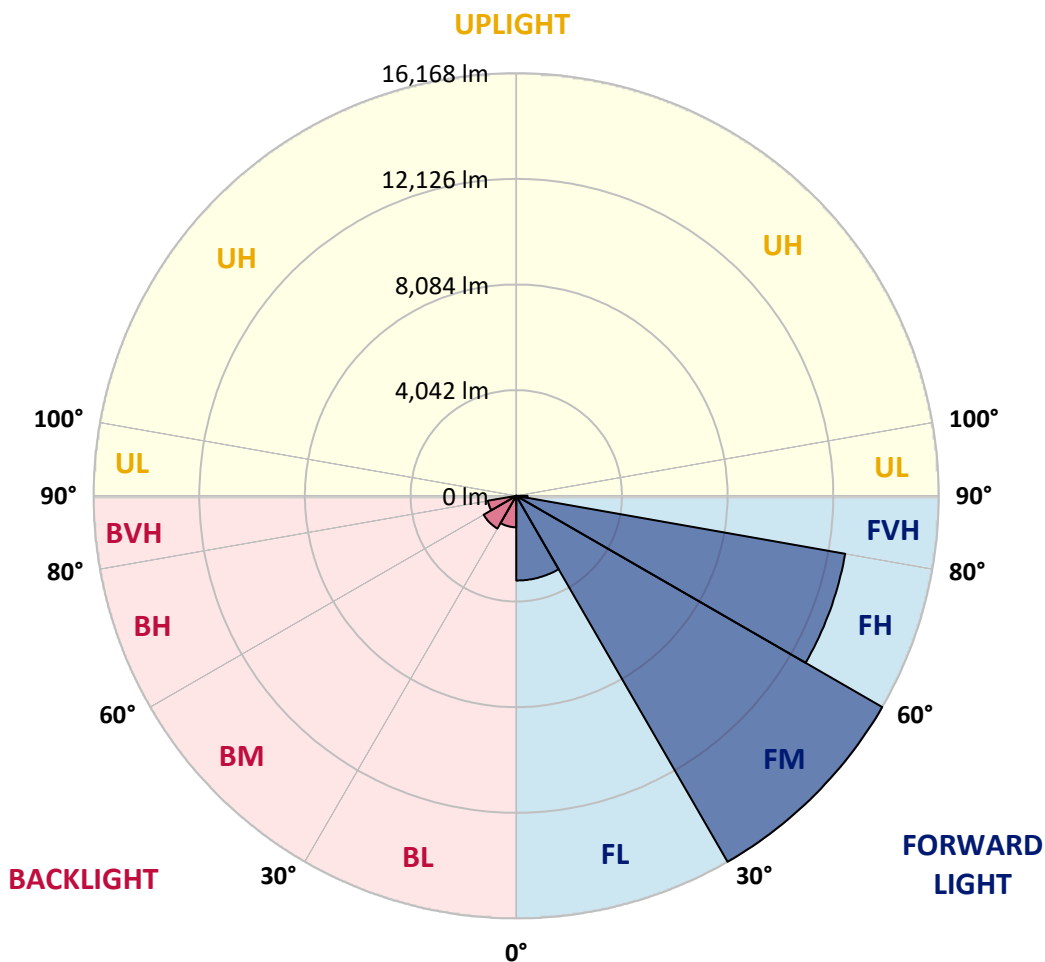


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3241.6	8.9			
FM (30°-60°)	16168.3	44.4			
FH (60°-80°)	12779.6	35.1			G5
FVH (80°-90°)	428.6	1.2			G3/500
BL (0°-30°)	1203.5	3.3	B3/2500		
BM (30°-60°)	1442.9	4.0	B2/2500		
BH (60°-80°)	1101.8	3.0	B3/2500		G3/2500
BVH (80°-90°)	14.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2
2.5°	9091.6	9101.4	9113.7	9130.9	9143.2	9106.3	9054.7	8995.7	8983.4	8858.2	8705.8
5°	8605.0	8619.8	8727.9	8786.9	8919.5	9040.0	9116.2	9125.9	9121.1	9003.1	8759.9
7.5°	7912.1	7953.9	8059.6	8162.8	8410.9	8639.5	8909.8	9098.9	9111.2	9079.3	8777.0
10°	7349.4	7376.5	7430.5	7634.5	7840.9	8189.8	8568.2	8924.5	8954.0	9081.8	8762.3
12.5°	6909.6	6948.9	7015.3	7172.5	7420.7	7750.0	8179.9	8659.1	8720.5	9035.0	8720.5
15°	6602.4	6622.1	6688.5	6843.3	7084.0	7388.8	7823.7	8381.5	8435.5	8973.6	8713.1
17.5°	6457.5	6479.6	6526.3	6649.2	6848.2	7130.7	7555.9	8157.8	8226.7	8934.3	8740.2
20°	6496.8	6516.4	6518.9	6582.8	6717.9	6956.3	7359.3	7949.0	8037.4	8909.8	8784.4
22.5°	6720.4	6722.8	6693.4	6663.9	6710.5	6882.6	7238.8	7816.3	7907.2	8904.8	8836.0
25°	7054.6	7062.0	7012.8	6909.6	6816.2	6904.7	7211.8	7730.3	7811.4	8892.5	8867.9
27.5°	7516.5	7514.1	7499.3	7327.3	7062.0	7003.0	7234.0	7683.6	7752.4	8858.2	8880.2
30°	8162.8	8143.1	8111.2	7917.1	7511.6	7241.3	7327.3	7654.1	7718.0	8809.0	8848.3
32.5°	8799.2	8872.9	8867.9	8683.7	8177.5	7666.4	7521.4	7693.4	7740.1	8777.0	8801.6
35°	9541.2	9538.7	9728.0	9659.2	9067.0	8209.4	7853.2	7823.7	7860.5	8799.2	8779.5
37.5°	10229.3	10293.2	10588.0	10659.3	10118.7	8976.1	8322.5	8103.8	8116.1	8949.1	8833.6
40°	11086.8	11209.7	11649.5	11887.8	11411.1	10113.8	9015.4	8617.3	8619.8	9317.6	9037.5
42.5°	12192.6	12386.7	12797.0	13195.0	12939.5	11460.3	10054.8	9430.7	9425.8	9966.3	9504.4
45°	13536.6	13671.7	14138.6	14770.1	14608.0	13340.0	11568.4	10691.2	10627.3	11030.3	10332.5
47.5°	14696.4	14880.7	15354.9	16074.9	16812.0	15635.0	13376.9	12423.5	12381.7	12723.3	11752.7
50°	15202.6	15364.7	15863.6	16873.5	18659.8	18647.5	16070.0	14951.9	14880.7	15065.0	13949.5
52.5°	14647.3	14799.6	15303.3	16561.4	19529.7	22318.6	19972.0	18124.2	18038.2	17802.3	16573.7
55°	12745.4	12870.7	13615.3	15060.1	19195.5	24765.9	25348.3	22043.4	21709.2	20792.6	19544.4
57.5°	10148.1	10084.3	10546.2	12224.5	17234.7	25586.6	30867.1	26925.8	26328.7	23377.6	22058.1
60°	7032.4	7229.0	7415.8	8521.5	12959.2	24163.9	34299.8	33063.8	32277.5	25920.8	24466.2
62.5°	5169.9	5300.1	5423.0	5934.1	8148.0	19293.8	34906.7	39369.0	38671.1	28621.2	26763.6
65°	4088.7	4098.6	4147.7	4651.4	5369.0	12546.4	31990.0	42924.5	42745.1	31221.0	27694.9
66°	3725.1	3727.5	3803.7	4344.3	4818.5	10217.0	29653.3	43194.8	43293.1	31845.1	27422.1
67.5°	3255.8	3245.9	3356.5	3904.4	4388.6	7366.6	25471.1	42098.9	42681.3	32324.2	26441.8
70°	2523.5	2511.2	2646.4	3275.4	4042.1	4914.3	16929.9	36147.6	37086.2	31343.8	23394.9
72.5°	1680.7	1690.6	1921.5	2584.9	3857.8	4327.1	10185.0	27498.3	28825.2	25883.9	18404.3
75°	980.4	997.6	1260.6	1921.5	3349.1	4125.6	5764.5	19608.3	20456.0	17873.5	11465.2
77.5°	513.6	520.9	705.2	1267.9	2567.8	3830.7	3840.5	12526.7	12924.7	8686.1	4538.4
80°	272.7	265.4	378.4	764.2	1766.7	3363.8	3115.7	6631.9	6894.9	2580.1	1147.5
82.5°	103.2	113.1	201.5	501.3	1044.3	2415.4	2683.3	2931.4	2840.5	567.6	481.6
85°	19.7	24.6	86.0	297.3	525.9	1009.9	1978.0	1437.4	1331.8	213.8	277.7
87.5°	2.4	4.9	24.6	71.3	76.2	341.5	584.8	398.1	344.0	78.6	115.5
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°	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2	8627.2
2.5°	8632.1	8565.7	8344.6	8125.9	7902.3	7700.8	7563.2	7339.6	7283.1	7202.0	7155.3
5°	8614.9	8460.1	8035.0	7570.6	7138.1	6671.2	6315.0	5970.9	5786.7	5693.3	5658.9
7.5°	8565.7	8320.0	7656.6	6929.2	6236.4	5538.5	4931.6	4469.6	4172.3	3968.3	3830.7
10°	8467.4	8128.3	7216.8	6216.7	5169.9	4248.5	3479.3	2894.6	2442.4	2299.9	2304.8
12.5°	8366.7	7914.6	6725.3	5425.5	4128.1	2965.8	2150.0	1688.1	1471.9	1400.6	1385.8
15°	8273.3	7710.7	6243.7	4658.8	3073.9	1921.5	1385.8	1223.7	1164.7	1152.4	1150.0
17.5°	8224.2	7521.4	5730.2	3781.6	2145.1	1304.8	1110.6	1066.4	1049.2	1036.9	1032.0
20°	8182.4	7356.8	5238.7	2960.9	1467.0	1068.9	995.2	953.4	923.9	911.6	904.2
22.5°	8152.9	7187.2	4730.1	2292.5	1122.9	948.4	882.1	828.1	786.3	771.6	761.7
25°	8108.7	7000.5	4216.5	1675.8	946.0	842.8	766.6	702.7	648.7	621.7	616.8
27.5°	8044.8	6789.2	3653.8	1240.9	845.2	749.4	656.1	577.5	523.4	493.9	496.3
30°	7941.6	6568.0	3091.1	985.3	764.2	653.6	552.9	476.7	425.1	403.0	400.5
32.5°	7818.7	6300.3	2575.1	845.2	690.4	567.6	462.0	395.6	356.3	339.1	336.6
35°	7703.2	6030.0	2049.3	759.3	614.3	489.0	388.2	331.8	302.2	287.5	289.9
37.5°	7639.3	5789.1	1597.2	690.4	552.9	420.2	334.2	285.0	258.0	245.7	243.3
40°	7681.2	5592.6	1270.3	629.1	484.1	361.2	287.5	245.7	218.7	201.5	201.5
42.5°	7877.8	5506.5	1024.6	570.1	420.2	312.0	250.6	211.3	181.8	164.7	167.1
45°	8477.3	5597.4	857.5	516.0	361.2	270.3	216.3	174.5	147.4	135.1	132.7
47.5°	9472.4	5939.0	742.0	459.5	309.6	231.0	181.8	145.0	117.9	108.1	105.6
50°	11212.1	6644.2	656.1	403.0	262.9	196.6	149.9	115.5	93.4	83.5	83.5
52.5°	13605.4	8182.4	594.6	339.1	221.1	167.1	122.9	93.4	73.7	66.3	63.9
55°	16106.9	9804.2	562.7	285.0	184.3	137.6	98.3	73.7	56.5	49.2	46.7
57.5°	18512.4	11076.9	525.9	231.0	147.4	105.6	76.2	56.5	39.3	34.4	31.9
60°	20819.7	12106.5	447.2	184.3	115.5	76.2	56.5	39.3	27.0	22.1	22.1
62.5°	22883.7	12706.1	351.4	147.4	88.5	54.0	36.9	29.5	19.7	14.7	14.7
65°	23124.6	11927.1	265.4	113.1	63.9	34.4	22.1	22.1	14.7	9.9	9.9
66°	22640.4	11266.2	233.4	103.2	56.5	29.5	19.7	17.2	12.3	7.4	7.4
67.5°	21559.3	10138.4	201.5	88.5	46.7	22.1	14.7	14.7	9.9	4.9	4.9
70°	18627.9	8280.7	159.7	66.3	34.4	17.2	9.9	9.9	7.4	4.9	4.9
72.5°	14197.6	6182.3	130.2	49.2	24.6	12.3	7.4	7.4	7.4	4.9	4.9
75°	8563.3	3329.5	100.8	36.9	22.1	9.9	4.9	7.4	9.9	7.4	4.9
77.5°	3155.0	1132.8	78.6	29.5	17.2	9.9	4.9	4.9	9.9	7.4	7.4
80°	774.0	294.9	56.5	24.6	17.2	9.9	4.9	4.9	9.9	9.9	9.9
82.5°	358.8	125.3	39.3	22.1	17.2	9.9	4.9	4.9	7.4	9.9	9.9
85°	206.4	59.0	31.9	24.6	17.2	9.9	4.9	4.9	7.4	9.9	9.9
87.5°	83.5	29.5	29.5	24.6	19.7	12.3	4.9	4.9	4.9	7.4	7.4
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)