

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: P459393

Luminaire Tested: **GALN-SA8C-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43501 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

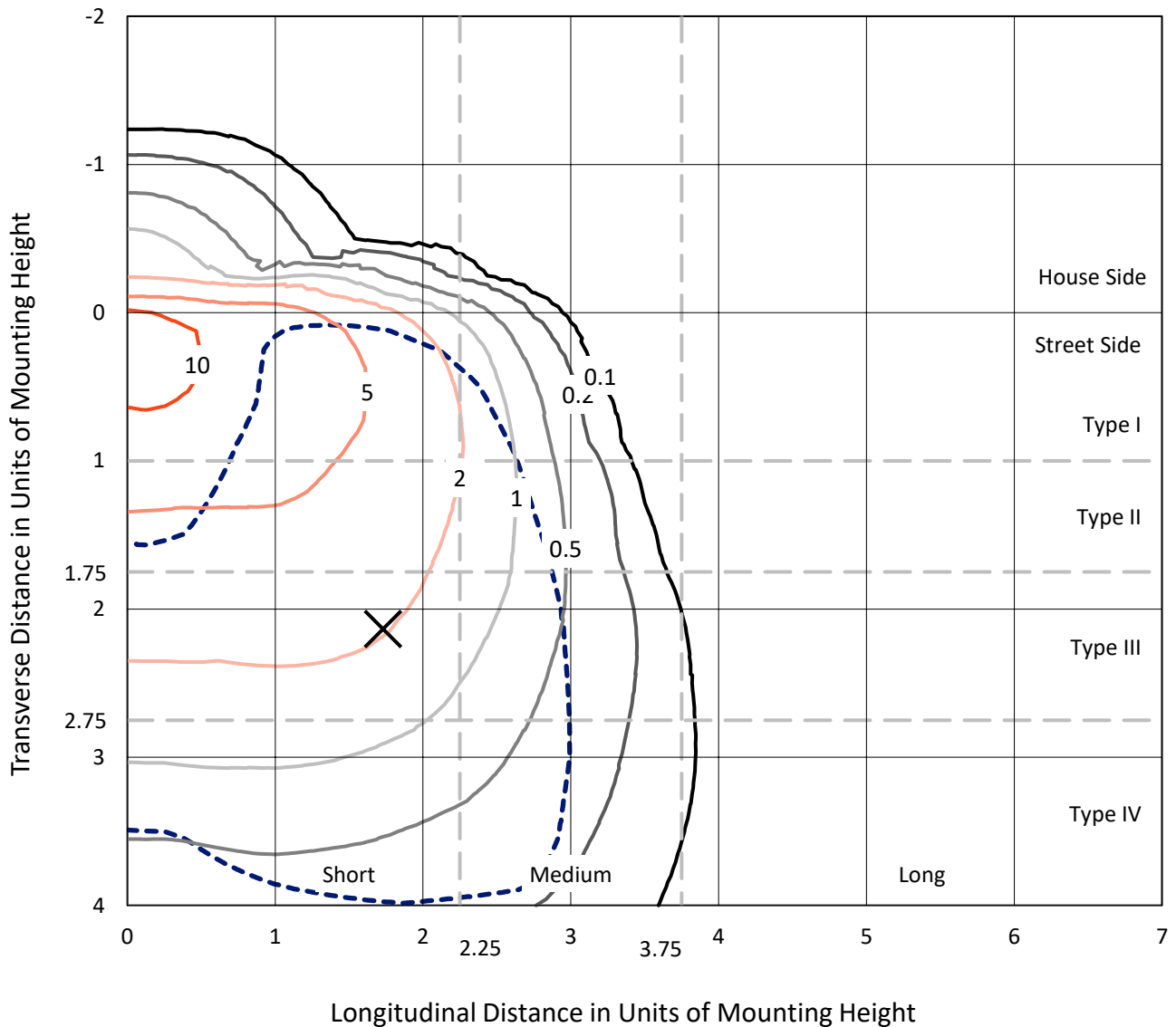
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459393  
 CATALOG NUMBER: GALN-SA8C-735-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

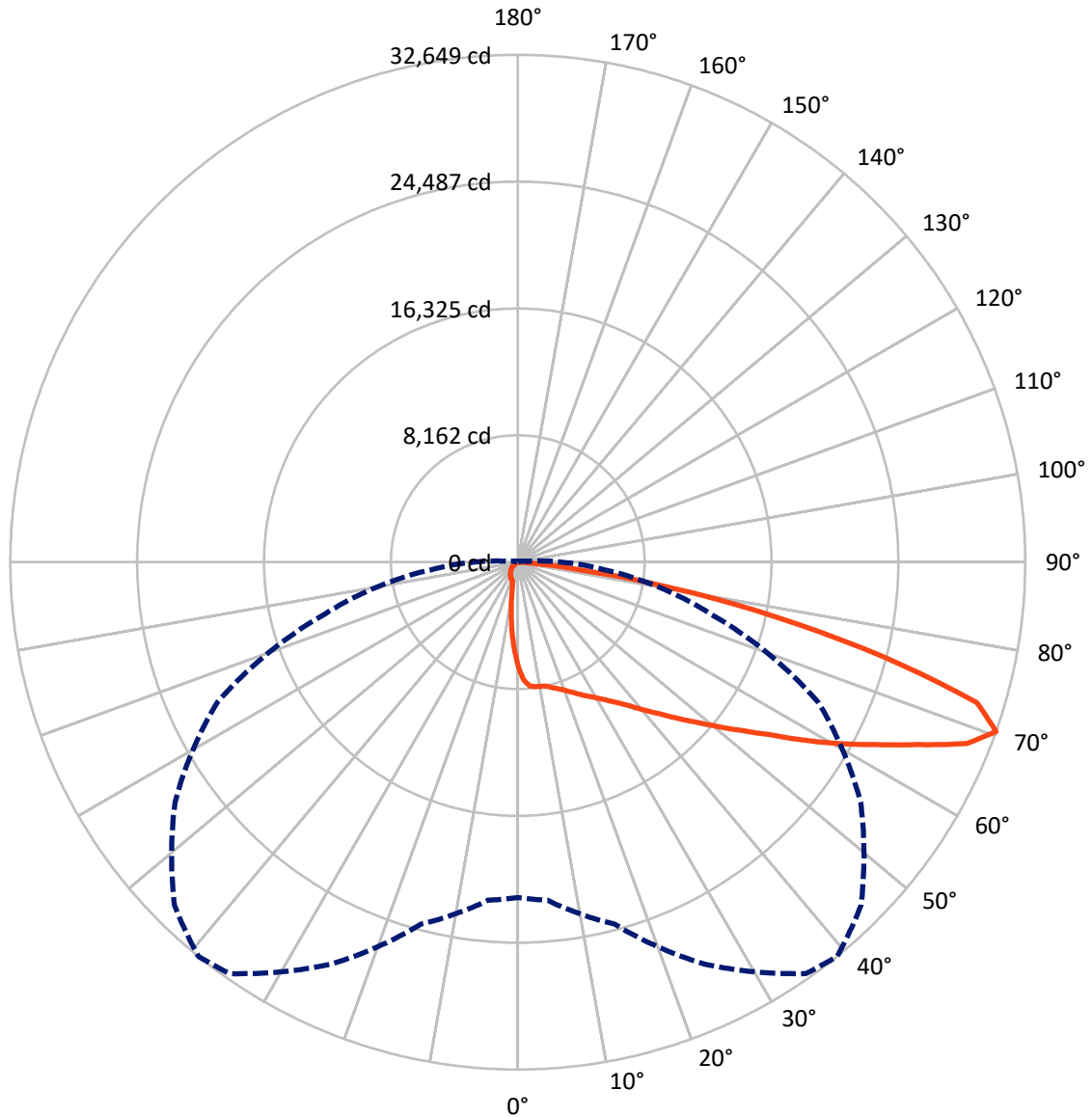
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type IV - Short - N/A

REPORT NUMBER: P459393  
CATALOG NUMBER: GALN-SA8C-735-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P459393  
 CATALOG NUMBER: GALN-SA8C-735-U-SL4-HSS

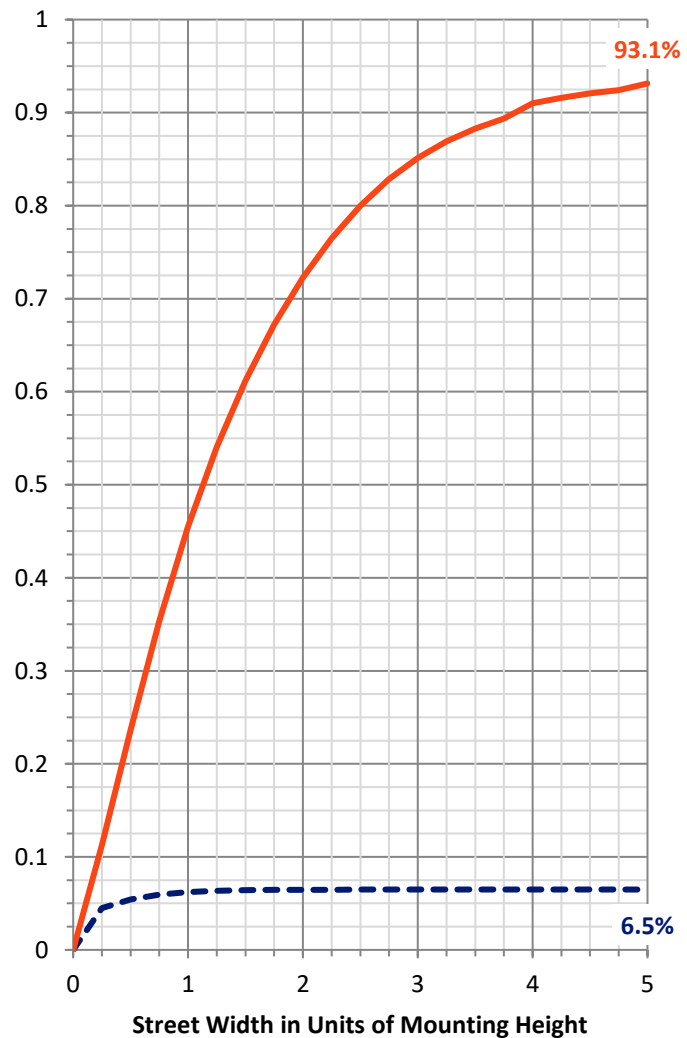
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2836.5	0.0	2836.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	40664.5	0.0	40664.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	43501.0	0.0	43501.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.9	1.3
10°-20°	1504.5	3.5
20°-30°	2520.4	5.8
30°-40°	3908.9	9.0
40°-50°	6194.4	14.2
50°-60°	9080.1	20.9
60°-70°	11638.5	26.8
70°-80°	7313.3	16.8
80°-90°	761.9	1.8
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°	43501.0	100.0
0°-180°	43501.0	100.0

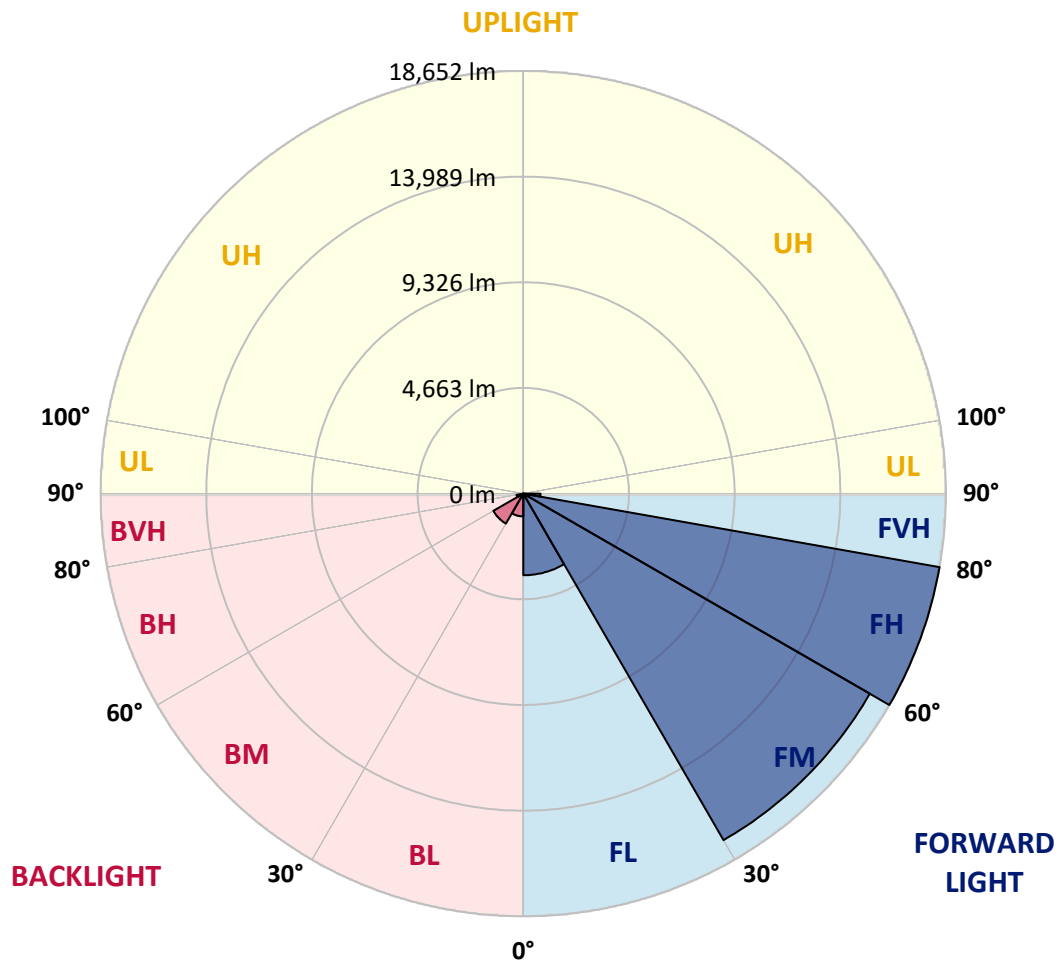


REPORT NUMBER: P459393  
 CATALOG NUMBER: GALN-SA8C-735-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3599.5	8.3			
FM (30°-60°)	17657.0	40.6			
FH (60°-80°)	18651.8	42.9			G5
FVH (80°-90°)	756.3	1.7			G5
BL (0°-30°)	1004.4	2.3	B3/2500		
BM (30°-60°)	1526.5	3.5	B2/2500		
BH (60°-80°)	300.0	0.7	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





REPORT NUMBER: P459393

CATALOG NUMBER: GALN-SA8C-735-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6
2.5°	7842.9	7816.6	7781.5	7740.6	7623.7	7603.2	7533.1	7384.0	7205.7	7059.5	6857.8
5°	8214.2	8228.8	8202.5	8129.4	8044.6	7994.9	7907.2	7676.3	7445.4	7150.1	6819.8
7.5°	8298.9	8328.2	8296.0	8225.9	8144.0	8091.4	8021.2	7822.5	7553.5	7217.4	6764.3
10°	8290.2	8325.2	8304.8	8240.5	8173.2	8123.5	8047.5	7889.7	7673.4	7319.7	6781.8
12.5°	8275.6	8322.3	8319.4	8287.2	8231.7	8193.7	8146.9	8006.6	7804.9	7468.8	6878.3
15°	8234.6	8293.1	8345.7	8372.0	8374.9	8374.9	8316.5	8167.4	7974.5	7664.6	7004.0
17.5°	8252.2	8319.4	8450.9	8526.9	8579.6	8573.7	8512.3	8351.6	8138.2	7866.3	7135.5
20°	8360.3	8450.9	8635.1	8787.1	8839.7	8822.2	8740.3	8553.3	8310.6	8038.8	7264.1
22.5°	8626.3	8708.2	8939.1	9117.4	9155.4	9108.7	8991.7	8737.4	8518.2	8225.9	7419.1
25°	9023.9	9120.4	9333.7	9468.2	9468.2	9441.9	9278.2	8980.0	8752.0	8486.0	7620.8
27.5°	9506.2	9588.1	9798.5	9918.4	9848.2	9772.2	9608.5	9249.0	9029.7	8813.4	7863.4
30°	9994.4	10047.0	10269.2	10321.8	10248.7	10152.2	9976.8	9617.3	9424.4	9257.7	8214.2
32.5°	10456.3	10570.3	10754.4	10742.7	10643.3	10596.6	10435.8	10052.9	9944.7	9927.2	8705.3
35°	10918.1	11005.8	11169.5	11210.4	11122.7	11114.0	10997.0	10713.5	10716.4	10830.4	9471.1
37.5°	11315.7	11394.6	11587.5	11678.1	11695.7	11739.5	11692.8	11505.7	11771.7	12084.5	10485.5
40°	11648.9	11760.0	12005.5	12163.4	12344.6	12505.4	12514.2	12555.1	13090.0	13627.9	11809.7
42.5°	11909.1	12064.0	12420.6	12713.0	13128.0	13332.7	13496.4	13721.5	14621.8	15425.7	13370.7
45°	12248.2	12426.5	12870.8	13329.7	13978.7	14314.9	14542.9	15145.0	16422.5	17518.7	14972.6
47.5°	12809.4	12903.0	13356.1	14025.5	14879.0	15358.4	15802.8	16714.8	18354.7	19336.9	16305.6
50°	13531.4	13592.8	13934.8	14864.4	15969.4	16600.8	17410.5	18483.3	20360.0	20845.3	17059.7
52.5°	14329.5	14349.9	14607.2	15788.2	17191.3	17986.4	18892.6	20216.8	21994.1	21921.0	17559.6
55°	15256.1	15226.9	15446.1	16790.8	18638.3	19547.4	20602.6	21991.2	23411.8	22684.0	17846.1
57.5°	16317.2	16238.3	16451.7	18120.9	20491.6	21579.0	22651.8	23522.9	24511.0	23324.1	17983.5
60°	17428.1	17270.2	17524.5	19614.6	22675.2	23707.1	24598.6	24832.5	25668.5	23832.8	17746.7
62.5°	18313.8	18316.7	18790.3	21204.8	24920.2	25823.5	26297.0	26507.5	26665.3	23721.7	16501.4
65°	19696.5	19743.2	20500.3	23411.8	27518.9	28302.3	28626.8	27942.8	26709.2	22341.9	14630.6
67.5°	21123.0	21272.1	22657.6	26451.9	30521.0	31152.4	30734.4	28220.5	25516.5	19193.7	11093.5
70°	21587.8	21833.3	24116.3	28545.0	32321.7	32649.1	31234.3	26925.5	21330.5	12832.8	5583.3
72.5°	19781.2	20178.8	23277.4	27782.0	31172.9	30889.4	27945.7	22581.6	13560.7	4873.0	1704.2
75°	13949.5	14124.9	19345.7	23046.4	25072.2	24268.3	21257.4	14557.5	5577.4	1368.1	584.6
77.5°	7202.7	7118.0	11505.7	15291.2	17881.2	17048.0	13920.2	7536.0	2113.5	570.0	362.5
80°	3724.1	3785.5	4978.2	8012.5	10915.2	10044.1	7422.0	3493.2	1125.4	315.7	277.7
82.5°	2087.2	1958.5	2861.8	3499.1	5103.9	4001.8	2847.2	2473.0	491.1	190.0	263.1
85°	380.0	397.6	1569.8	1891.3	1771.5	1125.4	917.9	1651.6	143.2	105.2	184.2
87.5°	5.8	5.8	304.0	543.7	344.9	157.9	289.4	236.8	29.2	40.9	32.2
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: P459393  
 CATALOG NUMBER: GALN-SA8C-735-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6	6787.6
2.5°	6755.5	6644.4	6436.9	6232.2	5972.1	5758.7	5615.4	5466.4	5314.4	5326.1	5361.1
5°	6638.6	6445.6	6036.4	5603.8	5188.7	4814.5	4446.2	4115.9	3981.4	3858.6	3864.5
7.5°	6521.6	6249.8	5650.5	4972.3	4343.9	3706.6	3244.7	2864.7	2663.0	2511.0	2467.2
10°	6469.0	6109.5	5296.8	4364.3	3472.8	2777.0	2183.6	1873.8	1634.1	1558.1	1578.5
12.5°	6492.4	6039.3	4978.2	3814.8	2753.6	1935.2	1520.1	1362.2	1309.6	1300.8	1295.0
15°	6536.3	5989.6	4665.4	3206.7	2022.8	1438.2	1277.4	1248.2	1242.4	1236.5	1239.4
17.5°	6594.7	5945.8	4332.2	2636.7	1552.2	1257.0	1210.2	1195.6	1192.7	1192.7	1192.7
20°	6653.2	5896.1	3960.9	2128.1	1295.0	1186.8	1157.6	1148.8	1145.9	1145.9	1143.0
22.5°	6720.4	5852.2	3583.8	1672.1	1192.7	1137.1	1110.8	1105.0	1102.0	1099.1	1099.1
25°	6816.9	5796.7	3183.4	1368.1	1128.4	1090.4	1064.0	1058.2	1055.3	1043.6	1046.5
27.5°	6945.5	5755.8	2771.2	1181.0	1069.9	1031.9	1014.3	1005.6	999.7	991.0	993.9
30°	7120.9	5720.7	2332.7	1078.7	1002.7	970.5	953.0	947.1	941.3	932.5	932.5
32.5°	7424.9	5735.3	1870.8	996.8	941.3	903.3	885.7	879.9	874.0	865.3	865.3
35°	7880.9	5820.1	1496.7	926.7	868.2	830.2	812.6	812.6	803.9	792.2	789.3
37.5°	8626.3	6036.4	1201.4	859.4	798.0	763.0	742.5	736.6	727.9	710.3	707.4
40°	9506.2	6372.6	1011.4	792.2	733.7	698.6	681.1	663.6	640.2	622.6	619.7
42.5°	10611.2	6717.5	877.0	725.0	672.3	640.2	619.7	590.5	555.4	532.0	529.1
45°	11762.9	7033.2	786.3	663.6	613.9	587.6	564.2	517.4	473.6	444.3	441.4
47.5°	12622.3	7091.7	713.3	605.1	564.2	537.9	505.7	447.2	388.8	362.5	353.7
50°	13028.7	6808.1	637.3	546.6	514.5	485.2	444.3	377.1	312.8	280.6	274.8
52.5°	13171.9	6317.0	575.9	494.0	464.8	429.7	380.0	304.0	245.5	213.4	210.5
55°	13113.4	5697.3	520.3	444.3	406.3	365.4	315.7	242.6	181.2	154.9	149.1
57.5°	12806.5	4908.0	464.8	394.6	347.9	306.9	251.4	181.2	122.8	99.4	96.5
60°	11979.2	3832.3	409.2	339.1	295.2	251.4	198.8	128.6	76.0	55.5	55.5
62.5°	10581.9	2844.3	356.6	283.5	248.5	201.7	140.3	81.8	40.9	29.2	26.3
65°	8842.7	2098.9	298.2	239.7	207.5	157.9	99.4	49.7	20.5	8.8	5.8
67.5°	6170.9	1295.0	248.5	195.9	169.5	114.0	61.4	20.5	8.8	0.0	0.0
70°	2803.3	616.8	190.0	149.1	128.6	81.8	32.2	11.7	5.8	0.0	0.0
72.5°	871.1	324.5	134.5	108.2	87.7	52.6	17.5	8.8	5.8	0.0	0.0
75°	403.4	207.5	84.8	58.5	49.7	26.3	11.7	5.8	2.9	0.0	0.0
77.5°	301.1	160.8	49.7	32.2	26.3	17.5	8.8	5.8	2.9	0.0	0.0
80°	263.1	81.8	29.2	20.5	14.6	11.7	5.8	2.9	0.0	0.0	0.0
82.5°	236.8	40.9	17.5	11.7	8.8	5.8	2.9	2.9	0.0	0.0	0.0
85°	128.6	23.4	11.7	8.8	5.8	2.9	2.9	0.0	0.0	0.0	0.0
87.5°	23.4	11.7	8.8	5.8	5.8	2.9	2.9	2.9	0.0	0.0	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)