

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: P459157

Luminaire Tested: **GALN-SA6C-735-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459157  
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-SA6C-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 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: 31784 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

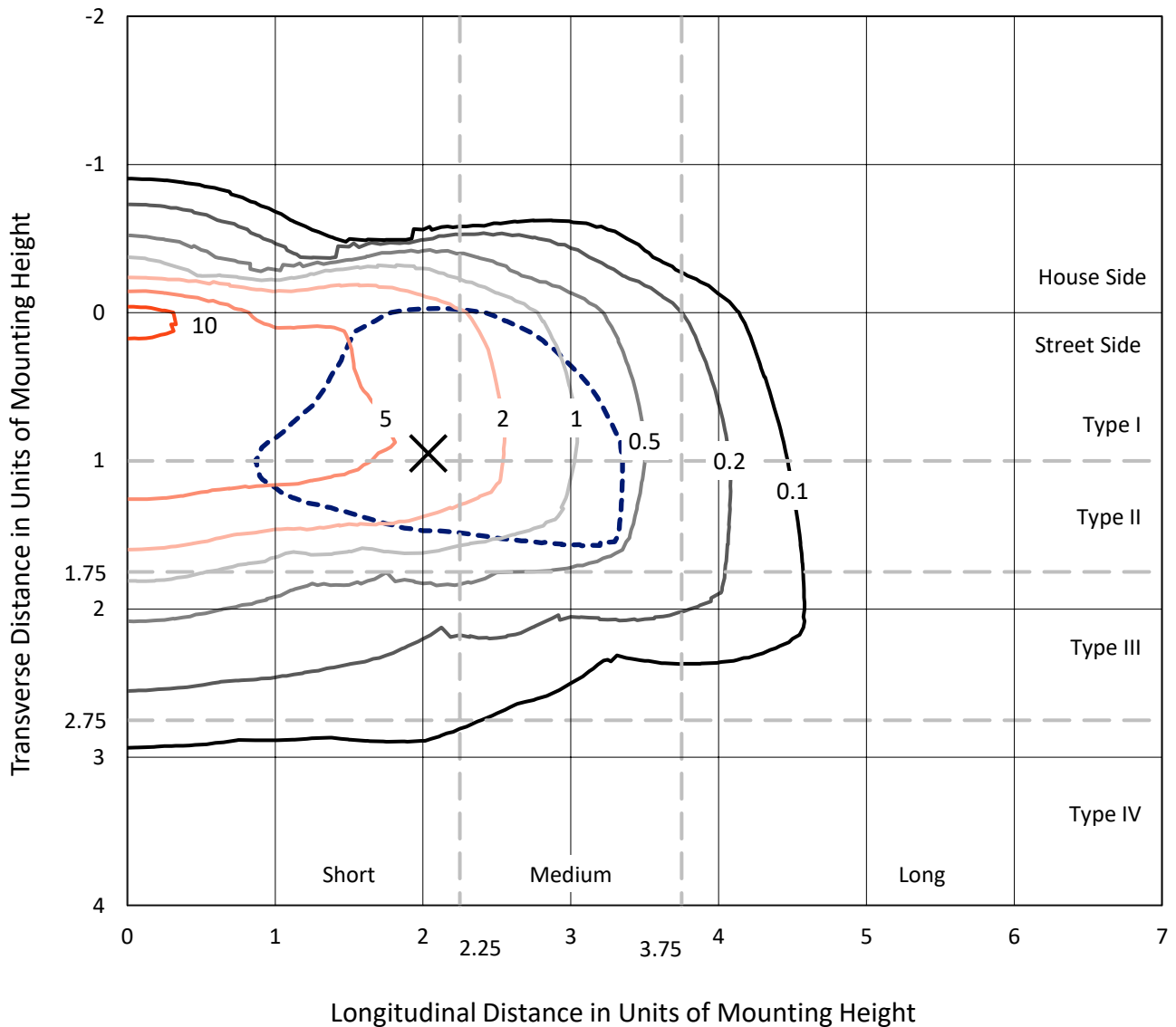
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

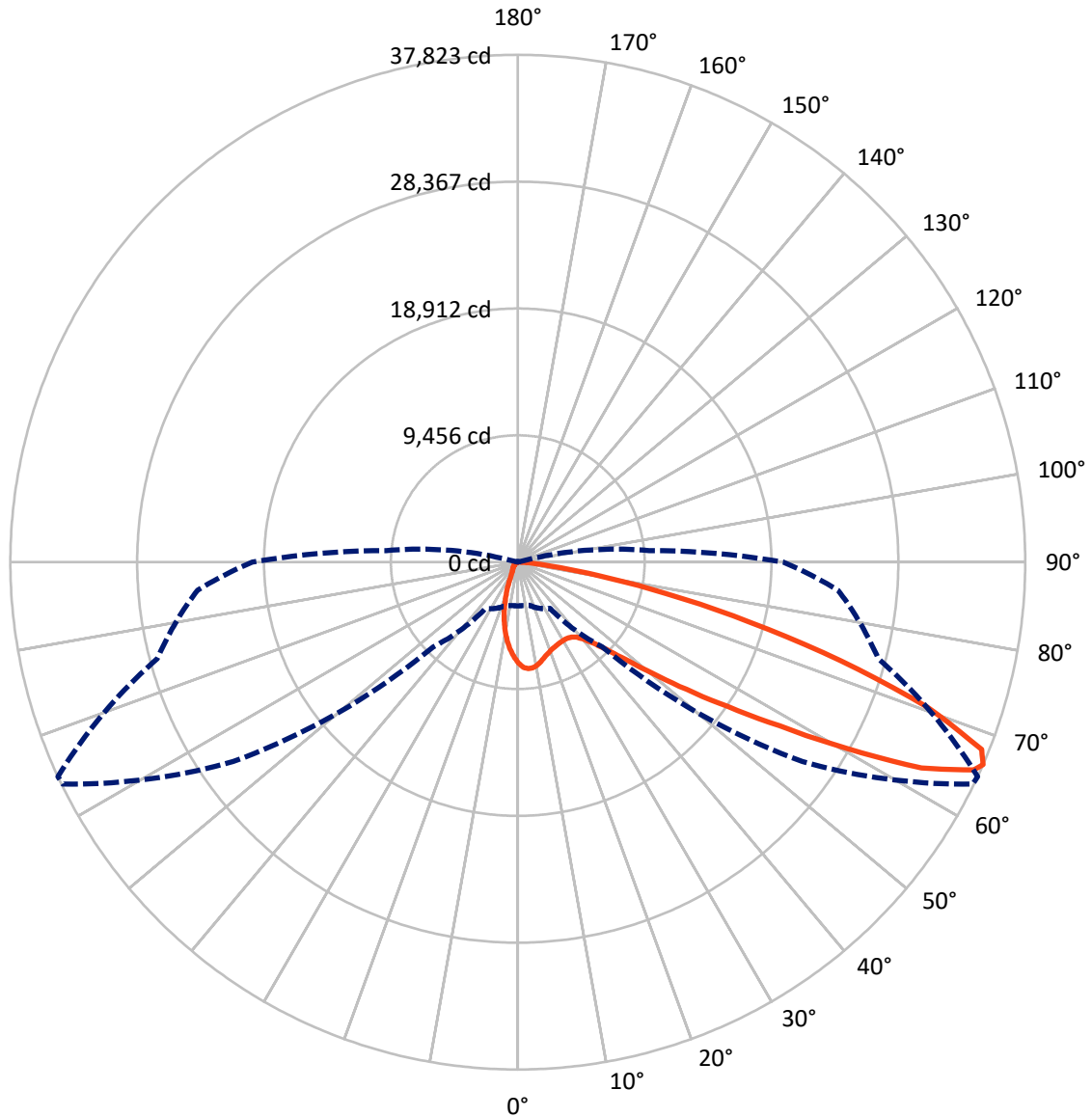
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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
<b>House Side</b>	Lumens	3286.9	0.0	3286.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	28497.1	0.0	28497.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	31784.0	0.0	31784.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	616.4	1.9
10°-20°	1343.1	4.2
20°-30°	1924.0	6.1
30°-40°	2810.2	8.8
40°-50°	4712.1	14.8
50°-60°	7863.8	24.7
60°-70°	8347.2	26.3
70°-80°	3780.4	11.9
80°-90°	386.8	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°	31784.0	100.0
0°-180°	31784.0	100.0



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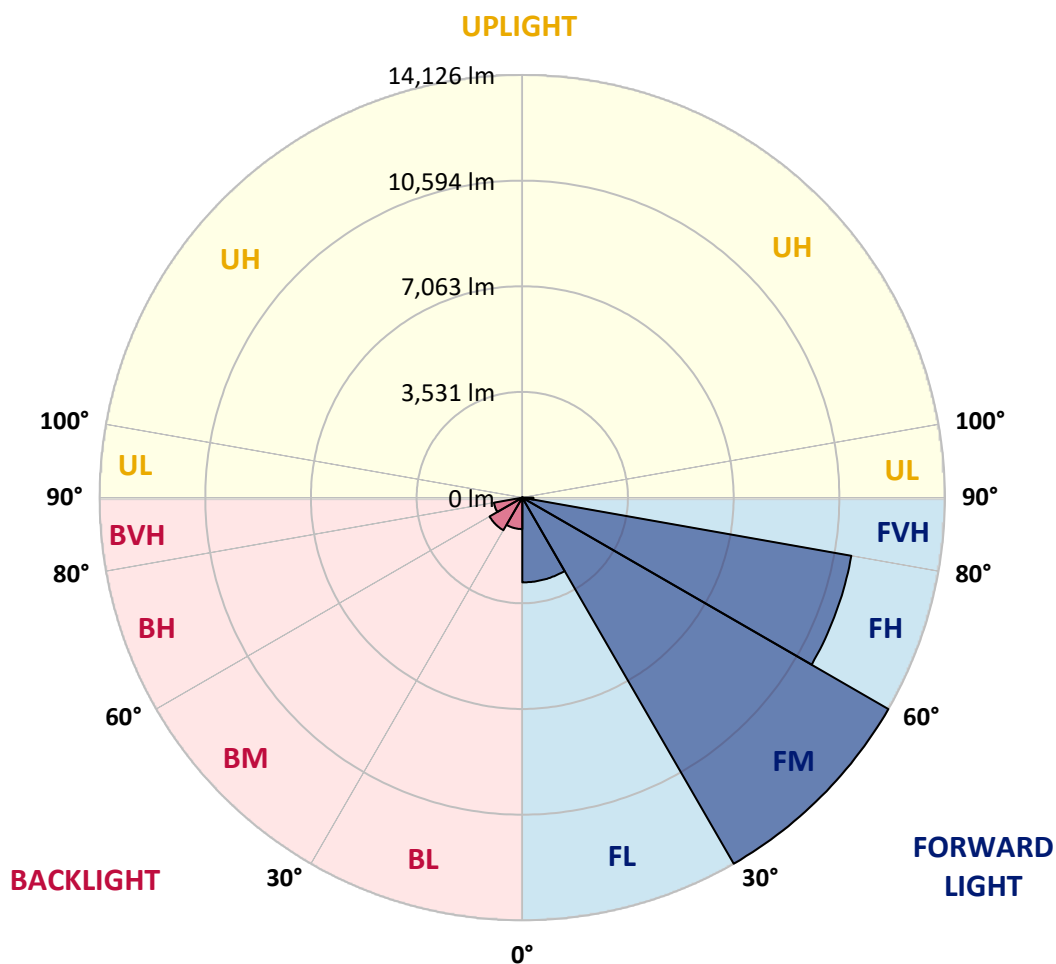
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2832.1	8.9			
FM (30°-60°)	14125.5	44.4			
FH (60°-80°)	11165.0	35.1			G4/12000
FVH (80°-90°)	374.5	1.2			G3/500
BL (0°-30°)	1051.4	3.3	B3/2500		
BM (30°-60°)	1260.6	4.0	B2/2500		
BH (60°-80°)	962.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2
2.5°	7942.9	7951.5	7962.2	7977.2	7988.0	7955.8	7910.7	7859.2	7848.4	7739.0	7605.9
5°	7517.8	7530.7	7625.2	7676.7	7792.6	7897.8	7964.4	7972.9	7968.7	7865.6	7653.1
7.5°	6912.5	6949.0	7041.3	7131.4	7348.2	7547.9	7784.0	7949.3	7960.1	7932.2	7668.1
10°	6420.9	6444.5	6491.7	6669.9	6850.2	7155.0	7485.6	7796.9	7822.7	7934.3	7655.2
12.5°	6036.6	6070.9	6128.9	6266.3	6483.1	6770.8	7146.5	7565.1	7618.7	7893.5	7618.7
15°	5768.3	5785.4	5843.4	5978.6	6189.0	6455.2	6835.2	7322.5	7369.7	7839.8	7612.3
17.5°	5641.6	5660.9	5701.7	5809.0	5982.9	6229.8	6601.2	7127.1	7187.2	7805.5	7635.9
20°	5675.9	5693.1	5695.3	5751.1	5869.2	6077.4	6429.4	6944.7	7021.9	7784.0	7674.5
22.5°	5871.3	5873.4	5847.7	5821.9	5862.7	6013.0	6324.3	6828.7	6908.2	7779.7	7719.6
25°	6163.3	6169.7	6126.8	6036.6	5955.0	6032.3	6300.6	6753.6	6824.4	7769.0	7747.5
27.5°	6566.8	6564.7	6551.8	6401.5	6169.7	6118.2	6320.0	6712.8	6772.9	7739.0	7758.3
30°	7131.4	7114.3	7086.3	6916.8	6562.5	6326.4	6401.5	6687.1	6742.9	7696.0	7730.4
32.5°	7687.4	7751.8	7747.5	7586.5	7144.3	6697.8	6571.1	6721.4	6762.2	7668.1	7689.6
35°	8335.7	8333.6	8498.9	8438.8	7921.4	7172.2	6860.9	6835.2	6867.4	7687.4	7670.3
37.5°	8936.8	8992.6	9250.2	9312.5	8840.2	7842.0	7271.0	7079.9	7090.6	7818.4	7717.5
40°	9686.0	9793.4	10177.6	10385.9	9969.4	8835.9	7876.3	7528.6	7530.7	8140.4	7895.7
42.5°	10652.1	10821.7	11180.2	11527.9	11304.7	10012.3	8784.4	8239.1	8234.8	8707.1	8303.5
45°	11826.3	11944.4	12352.3	12904.0	12762.3	11654.6	10106.8	9340.4	9284.6	9636.7	9027.0
47.5°	12839.6	13000.6	13414.9	14043.9	14687.9	13659.6	11686.8	10853.9	10817.4	11115.8	10267.8
50°	13281.8	13423.5	13859.3	14741.6	16302.2	16291.5	14039.6	13062.8	13000.6	13161.6	12187.0
52.5°	12796.6	12929.7	13369.8	14468.9	17062.2	19498.7	17448.6	15834.3	15759.1	15553.0	14479.7
55°	11135.1	11244.6	11895.0	13157.3	16770.2	21636.9	22145.6	19258.3	18966.3	18165.6	17075.1
57.5°	8866.0	8810.2	9213.8	10680.0	15057.1	22353.9	26967.2	23523.8	23002.2	20424.0	19271.2
60°	6143.9	6315.7	6478.8	7444.8	11321.8	21110.9	29966.2	28886.4	28199.4	22645.8	21375.0
62.5°	4516.7	4630.5	4737.8	5184.3	7118.5	16856.1	30496.4	34394.9	33785.2	25005.1	23382.2
65°	3572.2	3580.7	3623.7	4063.8	4690.6	10961.2	27948.2	37501.2	37344.5	27276.3	24195.8
66°	3254.4	3256.6	3323.1	3795.4	4209.7	8926.1	25906.7	37737.3	37823.2	27821.6	23957.5
67.5°	2844.4	2835.8	2932.4	3411.1	3834.1	6435.9	22253.0	36779.9	37288.6	28240.2	23100.9
70°	2204.7	2194.0	2312.0	2861.6	3531.4	4293.5	14790.9	31580.5	32400.6	27383.7	20439.0
72.5°	1468.4	1476.9	1678.7	2258.4	3370.4	3780.4	8898.2	24024.0	25183.3	22613.6	16079.0
75°	856.5	871.6	1101.3	1678.7	2926.0	3604.4	5036.2	17130.9	17871.5	15615.3	10016.6
77.5°	448.7	455.1	616.1	1107.7	2243.3	3346.7	3355.3	10944.0	11291.8	7588.7	3965.0
80°	238.3	231.8	330.6	667.6	1543.5	2938.9	2722.0	5794.0	6023.7	2254.1	1002.5
82.5°	90.2	98.7	176.0	437.9	912.4	2110.2	2344.2	2561.0	2481.6	495.9	420.8
85°	17.2	21.5	75.1	259.8	459.4	882.3	1728.1	1255.8	1163.5	186.8	242.6
87.5°	2.1	4.3	21.5	62.3	66.5	298.4	510.9	347.8	300.5	68.7	100.9
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°	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2	7537.2
2.5°	7541.5	7483.5	7290.3	7099.2	6903.9	6727.8	6607.6	6412.3	6362.9	6292.1	6251.3
5°	7526.4	7391.2	7019.8	6614.1	6236.2	5828.4	5517.1	5216.5	5055.5	4974.0	4943.9
7.5°	7483.5	7268.8	6689.2	6053.8	5448.4	4838.7	4308.5	3904.9	3645.1	3467.0	3346.7
10°	7397.6	7101.4	6304.9	5431.2	4516.7	3711.7	3039.8	2528.8	2133.8	2009.3	2013.6
12.5°	7309.6	6914.6	5875.6	4740.0	3606.5	2591.1	1878.4	1474.8	1285.9	1223.6	1210.8
15°	7228.0	6736.4	5454.8	4070.2	2685.6	1678.7	1210.8	1069.1	1017.5	1006.8	1004.7
17.5°	7185.1	6571.1	5006.2	3303.8	1874.1	1139.9	970.3	931.7	916.7	905.9	901.6
20°	7148.6	6427.3	4576.8	2586.8	1281.6	933.8	869.4	832.9	807.2	796.4	790.0
22.5°	7122.8	6279.2	4132.4	2002.9	981.1	828.6	770.7	723.4	687.0	674.1	665.5
25°	7084.2	6116.0	3683.8	1464.1	826.5	736.3	669.8	614.0	566.7	543.1	538.8
27.5°	7028.4	5931.4	3192.2	1084.1	738.5	654.8	573.2	504.5	457.3	431.5	433.6
30°	6938.2	5738.2	2700.6	860.8	667.6	571.0	483.0	416.5	371.4	352.1	349.9
32.5°	6830.9	5504.2	2249.8	738.5	603.2	495.9	403.6	345.6	311.3	296.2	294.1
35°	6730.0	5268.1	1790.4	663.3	536.7	427.2	339.2	289.8	264.0	251.2	253.3
37.5°	6674.2	5057.7	1395.4	603.2	483.0	367.1	292.0	249.0	225.4	214.7	212.5
40°	6710.7	4886.0	1109.9	549.6	422.9	315.6	251.2	214.7	191.1	176.0	176.0
42.5°	6882.4	4810.8	895.2	498.0	367.1	272.6	219.0	184.6	158.9	143.8	146.0
45°	7406.2	4890.2	749.2	450.8	315.6	236.1	188.9	152.4	128.8	118.1	115.9
47.5°	8275.6	5188.6	648.3	401.4	270.5	201.8	158.9	126.7	103.0	94.5	92.3
50°	9795.5	5804.7	573.2	352.1	229.7	171.7	131.0	100.9	81.6	73.0	73.0
52.5°	11886.4	7148.6	519.5	296.2	193.2	146.0	107.3	81.6	64.4	58.0	55.8
55°	14071.8	8565.4	491.6	249.0	161.0	120.2	85.9	64.4	49.4	42.9	40.8
57.5°	16173.4	9677.4	459.4	201.8	128.8	92.3	66.5	49.4	34.3	30.1	27.9
60°	18189.2	10576.9	390.7	161.0	100.9	66.5	49.4	34.3	23.6	19.3	19.3
62.5°	19992.5	11100.7	307.0	128.8	77.3	47.2	32.2	25.8	17.2	12.9	12.9
65°	20202.8	10420.2	231.8	98.7	55.8	30.1	19.3	19.3	12.9	8.6	8.6
66°	19779.9	9842.7	203.9	90.2	49.4	25.8	17.2	15.0	10.7	6.4	6.4
67.5°	18835.4	8857.4	176.0	77.3	40.8	19.3	12.9	12.9	8.6	4.3	4.3
70°	16274.3	7234.5	139.5	58.0	30.1	15.0	8.6	8.6	6.4	4.3	4.3
72.5°	12403.8	5401.2	113.8	42.9	21.5	10.7	6.4	6.4	6.4	4.3	4.3
75°	7481.3	2908.8	88.0	32.2	19.3	8.6	4.3	6.4	8.6	6.4	4.3
77.5°	2756.4	989.6	68.7	25.8	15.0	8.6	4.3	4.3	8.6	6.4	6.4
80°	676.2	257.6	49.4	21.5	15.0	8.6	4.3	4.3	8.6	8.6	8.6
82.5°	313.4	109.5	34.3	19.3	15.0	8.6	4.3	4.3	6.4	8.6	8.6
85°	180.3	51.5	27.9	21.5	15.0	8.6	4.3	4.3	6.4	8.6	8.6
87.5°	73.0	25.8	25.8	21.5	17.2	10.7	4.3	4.3	4.3	6.4	6.4
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)