

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: P459141

Luminaire Tested: **GALN-SA6B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25166 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

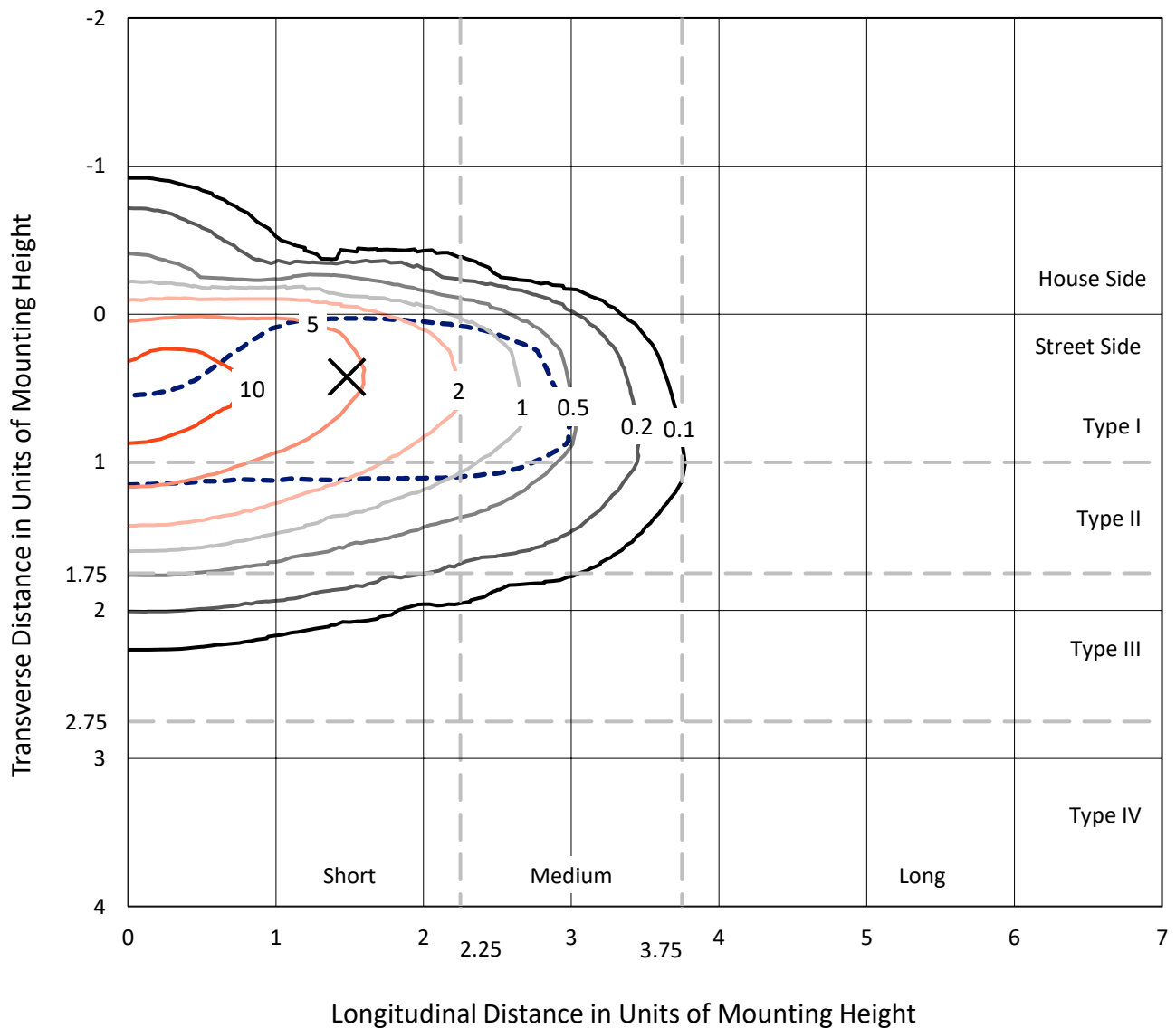
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

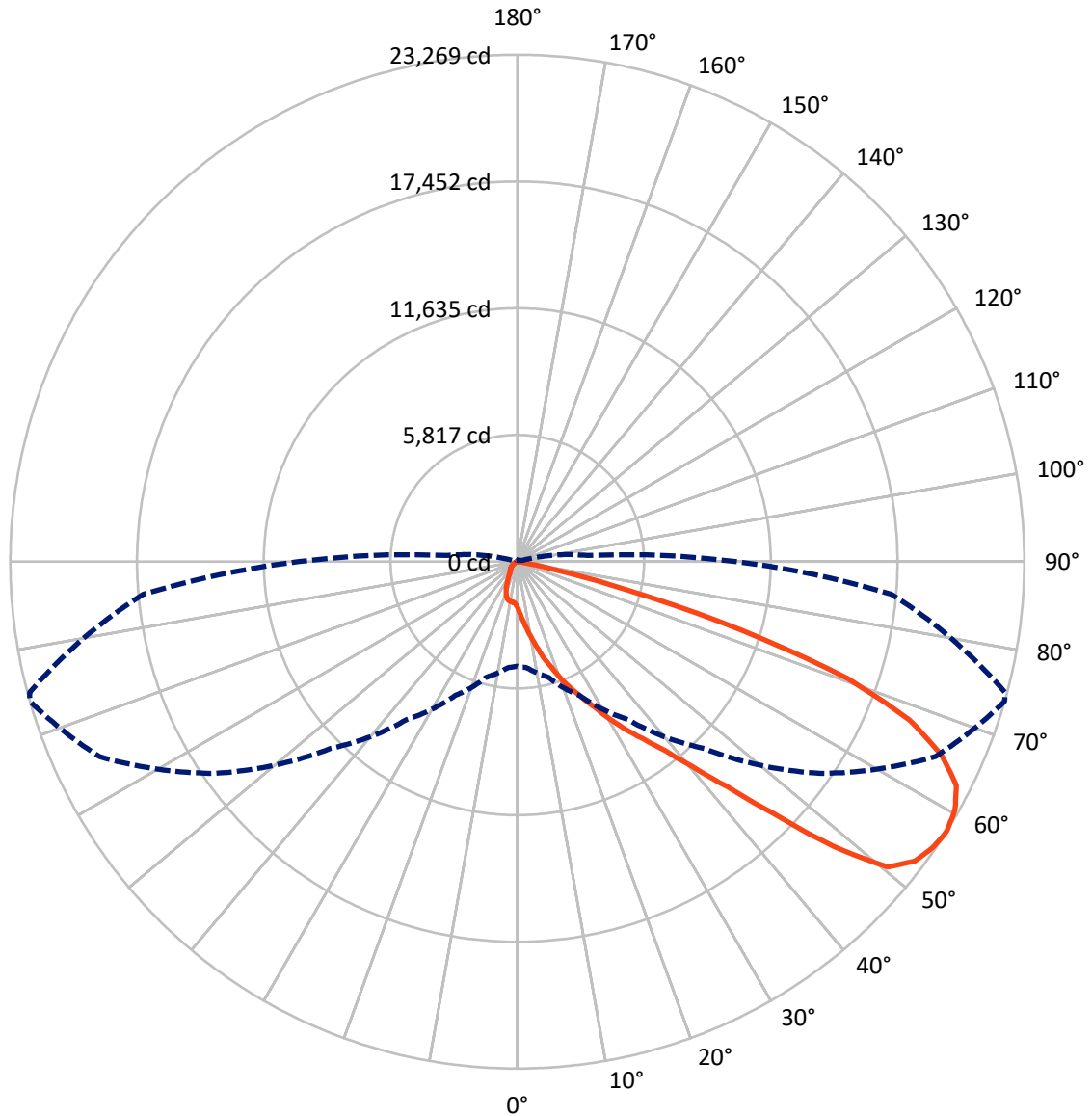
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1451.5	0.0	1451.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	23714.5	0.0	23714.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	25166.0	0.0	25166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.0
10°-20°	1002.7	4.0
20°-30°	2145.6	8.5
30°-40°	3943.6	15.7
40°-50°	6045.5	24.0
50°-60°	6395.4	25.4
60°-70°	4176.3	16.6
70°-80°	1141.1	4.5
80°-90°	61.4	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°	25166.0	100.0
0°-180°	25166.0	100.0

Coefficient of Utilization



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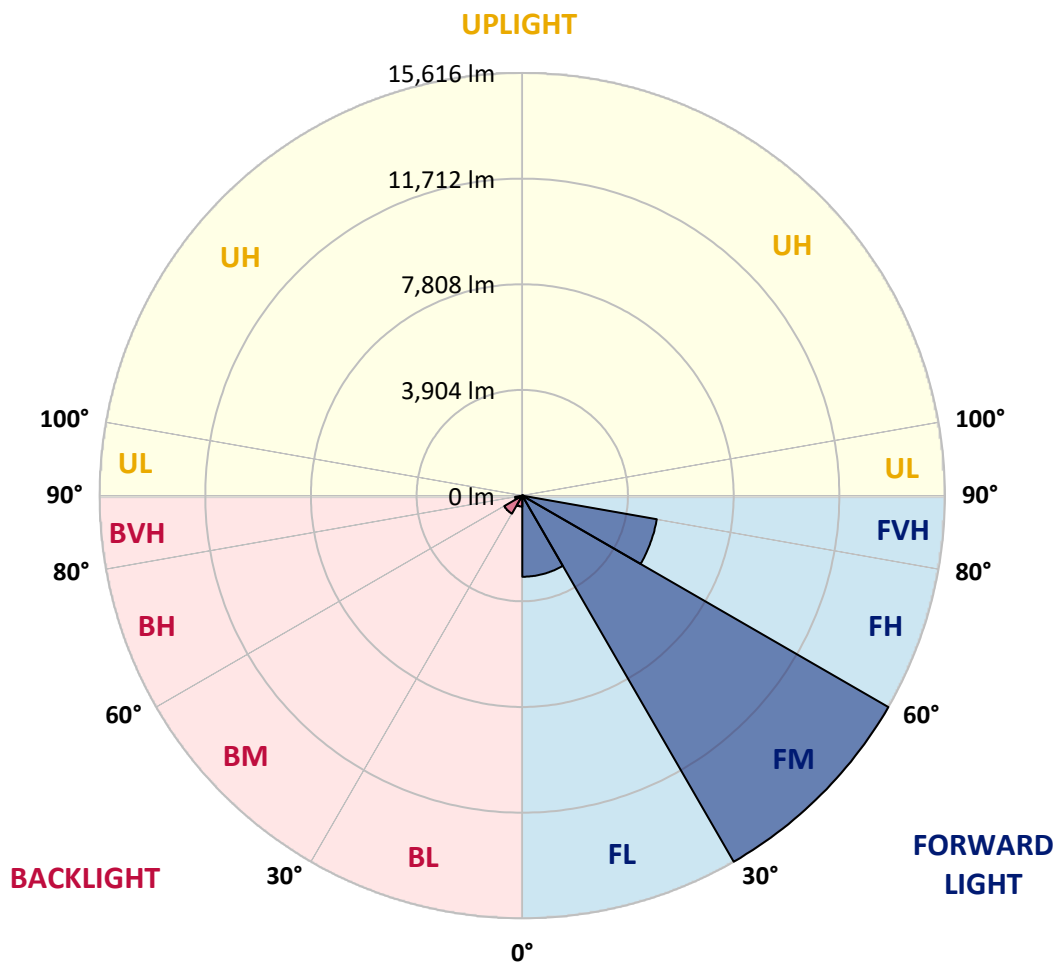
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2997.2	11.9			
FM	(30°-60°)	15616.0	62.1			
FH	(60°-80°)	5044.9	20.0			G3/7500
FVH	(80°-90°)	56.4	0.2			G1/100
BL	(0°-30°)	405.5	1.6	B1/500		
BM	(30°-60°)	768.5	3.1	B1/1000		
BH	(60°-80°)	272.5	1.1	B1/500		G1/500
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6
2.5°	3084.1	3056.3	3000.7	2981.6	2899.9	2773.1	2661.9	2512.5	2394.3	2382.1	2239.7
5°	4130.1	4067.5	4041.5	3916.4	3720.0	3535.9	3219.6	2979.9	2703.6	2682.7	2396.0
7.5°	5137.9	5051.0	5024.9	4906.8	4677.4	4387.3	3977.2	3541.1	3103.2	3063.3	2606.3
10°	5867.6	5879.8	5832.9	5754.7	5568.8	5273.4	4767.8	4171.8	3548.0	3497.6	2842.6
12.5°	6390.6	6388.9	6397.6	6395.8	6296.8	6072.7	5541.0	4854.6	4038.0	3939.0	3113.6
15°	6731.2	6736.4	6762.5	6852.8	6863.2	6724.2	6281.2	5508.0	4606.2	4482.8	3407.3
17.5°	7075.2	7111.7	7153.4	7238.5	7315.0	7259.4	6946.6	6189.1	5120.5	5028.4	3721.8
20°	7643.4	7693.8	7669.4	7721.6	7761.5	7766.7	7525.2	6818.1	5744.3	5589.6	4081.4
22.5°	8552.1	8550.4	8487.8	8394.0	8315.8	8312.3	8093.4	7464.4	6310.7	6161.3	4442.9
25°	9700.6	9705.8	9584.2	9316.6	9122.0	8884.0	8632.0	8030.8	6917.1	6732.9	4823.4
27.5°	11017.7	10984.6	10800.5	10432.1	10046.4	9639.8	9276.7	8689.4	7560.0	7407.1	5259.5
30°	12200.9	12188.7	11973.3	11523.3	11015.9	10607.6	10081.1	9514.7	8392.3	8204.6	5747.7
32.5°	13302.5	13319.9	13021.0	12555.4	12065.4	11594.5	11038.5	10303.5	9208.9	8943.0	6279.4
35°	14162.6	14180.0	13870.7	13483.2	12979.3	12588.4	12058.4	11144.5	10015.1	9791.0	6891.0
37.5°	14621.3	14643.9	14464.9	14173.0	13858.5	13662.2	13168.7	12227.0	10995.1	10859.5	7613.8
40°	14708.2	14734.2	14656.0	14577.8	14560.5	14701.2	14557.0	13502.3	12353.8	12141.8	8691.1
42.5°	14447.5	14482.3	14517.0	14690.8	15045.2	15561.3	16063.4	15232.9	14103.5	13818.5	10008.2
45°	13762.9	13759.5	13896.7	14346.8	15140.8	16242.4	17637.6	17399.6	16487.4	16148.6	11869.0
47.5°	12591.9	12574.5	12871.6	13512.7	14749.9	16367.5	18921.7	20030.2	19529.8	19217.0	13868.9
50°	10807.4	10892.6	11359.9	12254.8	13778.6	15988.7	19317.8	21755.6	22026.6	21694.8	15484.8
52.5°	8717.2	8713.7	9446.9	10661.5	12339.9	15154.7	19041.6	22068.3	22838.0	22584.4	16280.6
55°	6451.4	6496.6	7259.4	8484.3	10472.1	13632.6	18139.8	21746.9	23147.3	22968.4	16805.4
57°	4799.0	4879.0	5490.6	6786.8	8845.7	12126.2	16939.1	21171.8	23269.0	23171.7	17241.5
57.5°	4479.3	4482.8	5078.8	6256.8	8369.7	11547.6	16595.1	20932.0	23265.5	23211.6	17312.7
60°	2757.5	2844.3	3256.1	4229.1	6126.5	9012.6	14289.4	19554.1	23084.8	23163.0	17616.8
62.5°	1650.7	1687.1	1954.7	2549.0	3949.4	6578.3	11693.6	17790.5	22613.9	22851.9	17595.9
65°	1061.6	1070.3	1191.9	1542.9	2469.0	4446.3	9010.8	15460.5	21395.9	21833.8	16907.9
67.5°	820.1	834.0	882.7	1013.0	1431.7	2769.6	6373.2	12974.1	19425.5	19990.2	15239.8
70°	728.0	735.0	752.3	794.0	947.0	1563.8	3965.0	10135.0	16108.6	16268.5	11926.4
72.5°	594.2	613.3	667.2	681.1	750.6	976.5	2206.7	6802.4	10823.1	10863.0	6672.1
75°	460.4	463.9	543.8	583.8	632.5	672.4	985.2	3429.9	5198.7	4920.7	2571.5
77.5°	344.0	359.7	396.2	446.5	516.0	481.3	441.3	1292.7	1614.2	1584.6	747.1
80°	220.7	229.4	276.3	335.3	401.4	314.5	248.5	378.8	354.5	364.9	179.0
82.5°	111.2	112.9	177.2	272.8	255.4	158.1	156.4	154.6	132.1	130.3	83.4
85°	12.2	26.1	114.7	156.4	114.7	52.1	73.0	71.2	69.5	71.2	48.7
87.5°	1.7	1.7	19.1	22.6	15.6	17.4	20.9	22.6	27.8	26.1	20.9
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°	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6
2.5°	2170.2	2100.7	1972.1	1848.7	1756.6	1697.6	1621.1	1593.3	1553.3	1548.1	1529.0
5°	2264.0	2131.9	1907.8	1730.6	1588.1	1480.4	1386.5	1308.4	1245.8	1231.9	1238.9
7.5°	2397.8	2201.4	1888.7	1647.2	1449.1	1264.9	1115.5	1023.4	957.4	933.1	936.5
10°	2549.0	2293.5	1885.2	1558.6	1256.2	1030.4	867.0	785.4	747.1	733.2	717.6
12.5°	2727.9	2399.5	1876.5	1421.3	1044.3	821.9	705.4	656.8	620.3	609.9	609.9
15°	2929.5	2512.5	1834.8	1251.0	847.9	679.4	601.2	563.0	550.8	540.4	540.4
17.5°	3139.7	2623.7	1748.0	1040.8	703.7	582.1	533.4	510.8	493.5	481.3	481.3
20°	3379.5	2733.1	1608.9	854.9	594.2	519.5	481.3	455.2	441.3	430.9	427.4
22.5°	3607.1	2821.7	1431.7	702.0	517.8	467.4	432.6	404.8	390.9	385.7	385.7
25°	3843.4	2875.6	1218.0	580.3	472.6	424.0	385.7	363.1	351.0	347.5	345.8
27.5°	4072.8	2906.9	1030.4	507.4	430.9	384.0	347.5	330.1	318.0	314.5	316.2
30°	4350.8	2912.1	847.9	455.2	394.4	345.8	312.8	297.1	290.2	286.7	285.0
32.5°	4632.2	2905.1	712.4	424.0	359.7	312.8	285.0	272.8	267.6	262.4	262.4
35°	4948.5	2868.7	606.4	392.7	326.7	285.0	260.6	250.2	243.3	238.0	236.3
37.5°	5341.2	2849.5	545.6	357.9	297.1	258.9	236.3	225.9	220.7	213.7	212.0
40°	5959.7	2934.7	526.5	326.7	267.6	234.6	213.7	201.6	194.6	187.7	185.9
42.5°	6731.2	3084.1	495.2	295.4	241.5	212.0	191.1	177.2	165.1	156.4	152.9
45°	7730.3	3280.5	446.5	262.4	218.9	187.7	168.5	151.2	135.5	128.6	126.8
47.5°	8778.0	3469.8	403.1	236.3	194.6	166.8	146.0	126.8	112.9	107.7	106.0
50°	9420.9	3508.1	375.3	206.8	170.3	144.2	123.4	106.0	97.3	92.1	92.1
52.5°	9714.5	3447.3	337.1	180.7	147.7	126.8	106.0	92.1	86.9	83.4	81.7
55°	9919.5	3353.4	286.7	156.4	126.8	107.7	93.8	83.4	76.5	73.0	71.2
57°	10039.4	3226.6	248.5	137.3	109.5	93.8	83.4	74.7	67.8	60.8	60.8
57.5°	10044.6	3177.9	238.0	135.5	104.3	90.4	81.7	73.0	64.3	57.3	55.6
60°	9890.0	2844.3	191.1	114.7	83.4	76.5	67.8	57.3	45.2	38.2	36.5
62.5°	9393.1	2420.4	158.1	97.3	67.8	59.1	48.7	43.4	31.3	22.6	22.6
65°	8640.7	1963.4	135.5	78.2	55.6	43.4	33.0	31.3	19.1	10.4	8.7
67.5°	7553.0	1529.0	114.7	64.3	46.9	31.3	22.6	20.9	10.4	3.5	0.0
70°	5754.7	1042.5	95.6	52.1	34.8	22.6	15.6	12.2	7.0	1.7	0.0
72.5°	3316.9	573.4	79.9	40.0	26.1	17.4	12.2	7.0	7.0	0.0	0.0
75°	1185.0	246.7	60.8	29.5	20.9	13.9	8.7	3.5	5.2	1.7	0.0
77.5°	377.0	132.1	40.0	22.6	17.4	10.4	7.0	3.5	3.5	1.7	0.0
80°	111.2	69.5	24.3	19.1	12.2	8.7	5.2	1.7	3.5	1.7	0.0
82.5°	60.8	34.8	19.1	13.9	12.2	7.0	5.2	1.7	1.7	1.7	0.0
85°	31.3	20.9	15.6	13.9	12.2	7.0	5.2	1.7	0.0	1.7	1.7
87.5°	17.4	15.6	15.6	13.9	12.2	8.7	5.2	1.7	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)