

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: P456270

Luminaire Tested: **GALN-SA7C-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456270
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-SA7C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA 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: 35705 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

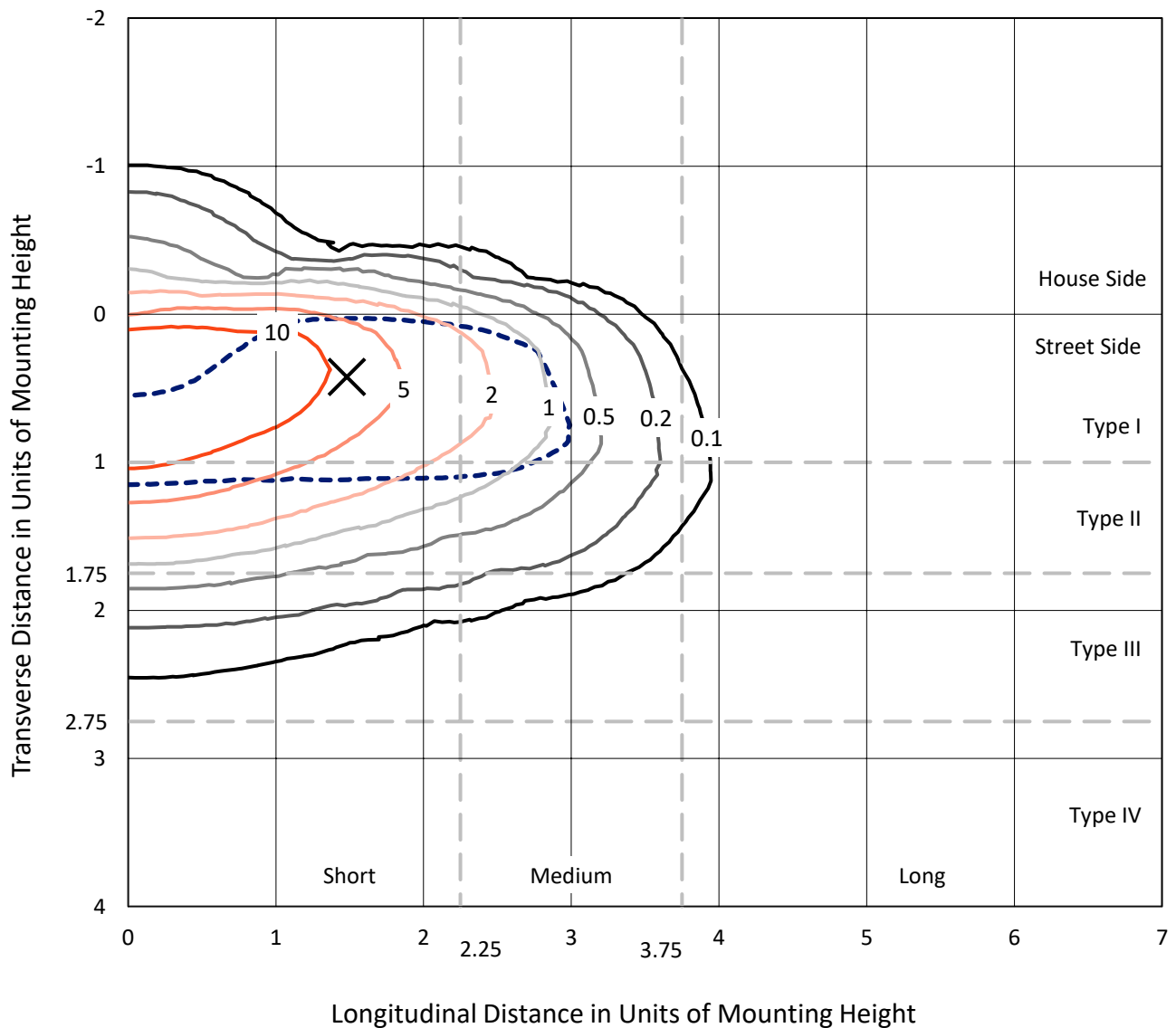
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

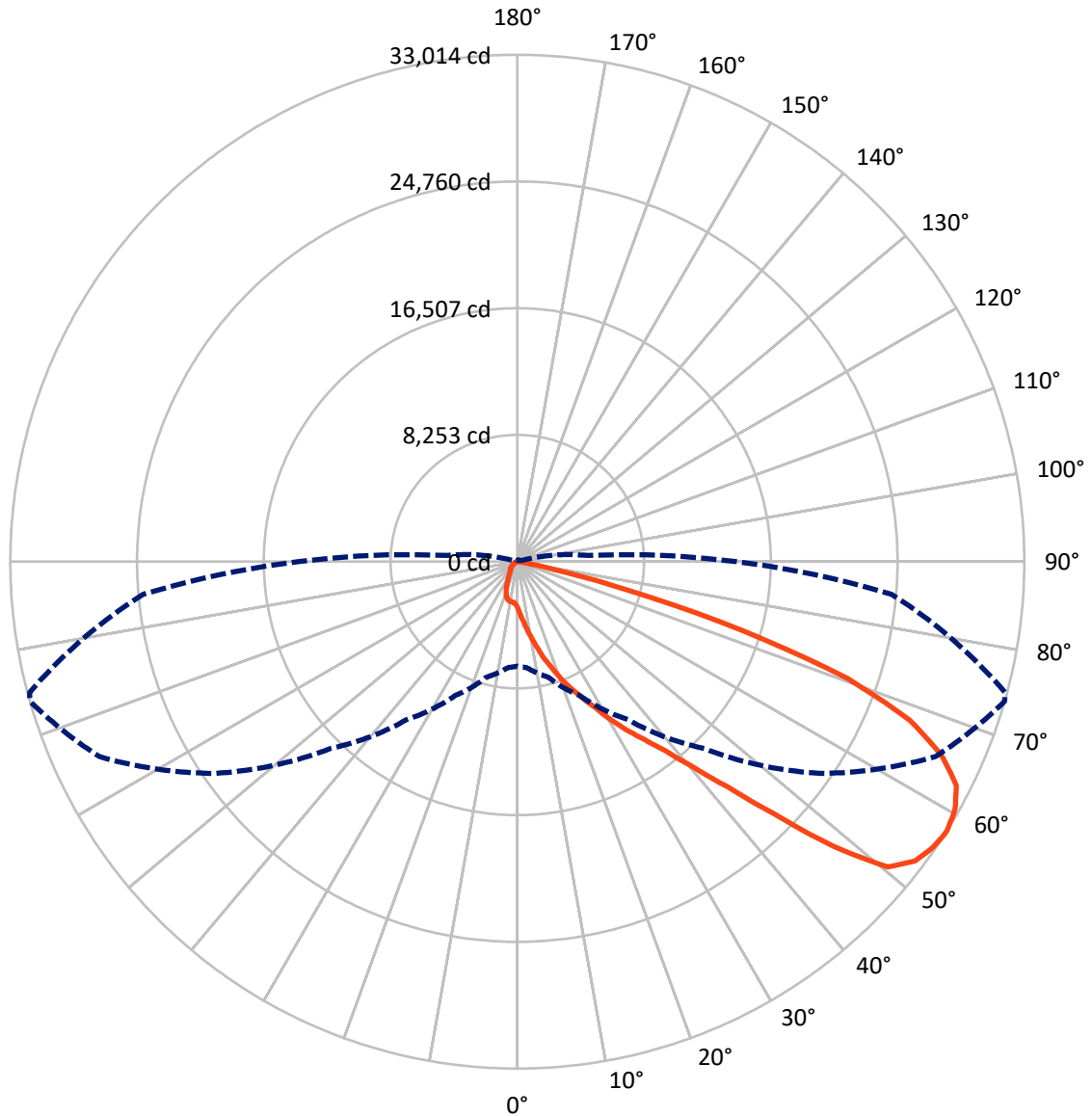
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	2059.4	0.0	2059.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	33645.7	0.0	33645.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	35705.0	0.0	35705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.0
10°-20°	1422.6	4.0
20°-30°	3044.1	8.5
30°-40°	5595.0	15.7
40°-50°	8577.3	24.0
50°-60°	9073.6	25.4
60°-70°	5925.3	16.6
70°-80°	1619.0	4.5
80°-90°	87.2	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°	35705.0	100.0
0°-180°	35705.0	100.0

Coefficient of Utilization

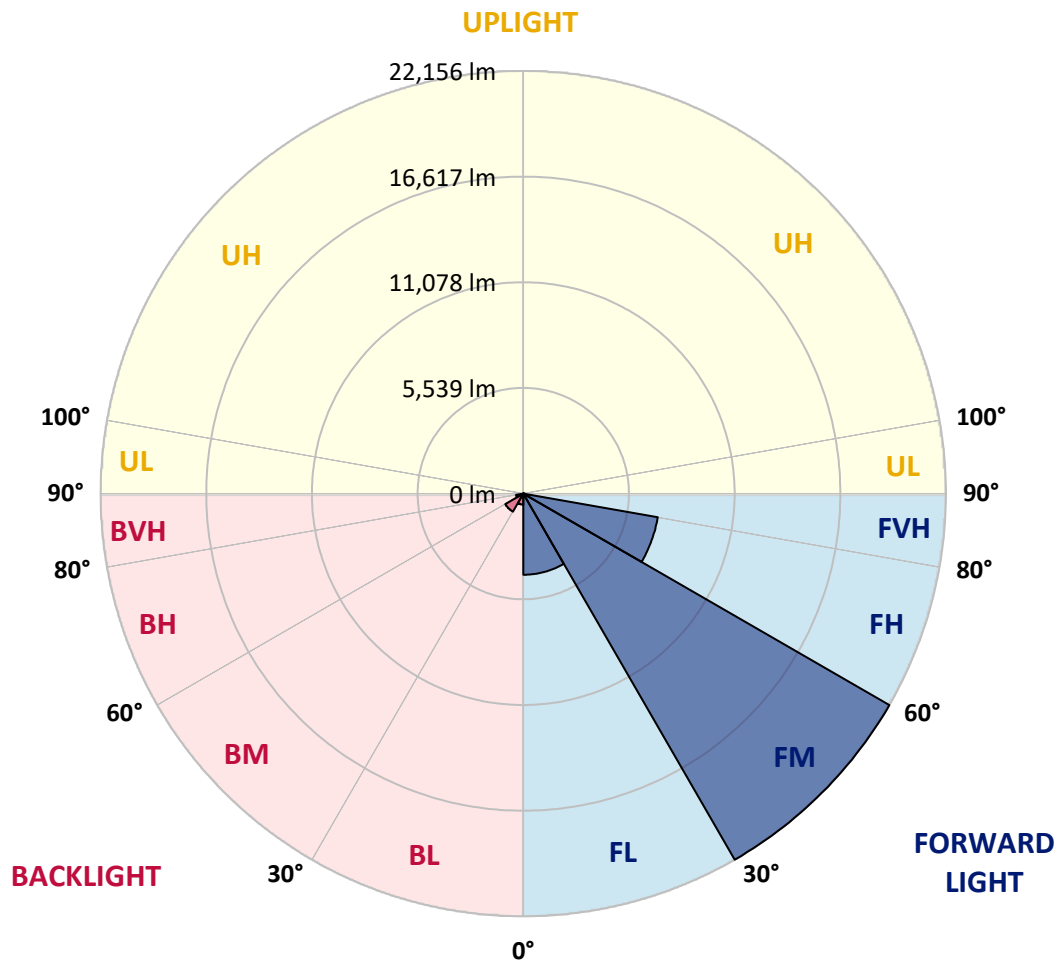


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4252.4	11.9			
FM	(30°-60°)	22155.6	62.1			
FH	(60°-80°)	7157.7	20.0			G3/7500
FVH	(80°-90°)	80.0	0.2			G1/100
BL	(0°-30°)	575.2	1.6	B2/1000		
BM	(30°-60°)	1090.3	3.1	B2/2500		
BH	(60°-80°)	386.6	1.1	B1/500		G1/500
BVH	(80°-90°)	7.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2
2.5°	4375.7	4336.2	4257.3	4230.2	4114.4	3934.4	3776.6	3564.6	3397.0	3379.7	3177.6
5°	5859.7	5771.0	5734.0	5556.5	5277.9	5016.6	4568.0	4227.8	3835.8	3806.2	3399.5
7.5°	7289.5	7166.2	7129.3	6961.6	6636.2	6224.5	5642.8	5024.0	4402.8	4346.1	3697.8
10°	8324.9	8342.1	8275.6	8164.6	7900.9	7481.8	6764.4	5918.9	5033.9	4962.4	4033.0
12.5°	9066.9	9064.4	9076.7	9074.3	8933.8	8615.8	7861.4	6887.7	5729.0	5588.5	4417.6
15°	9550.1	9557.5	9594.4	9722.6	9737.4	9540.2	8911.6	7814.6	6535.2	6360.1	4834.2
17.5°	10038.2	10089.9	10149.1	10269.9	10378.4	10299.5	9855.7	8780.9	7264.8	7134.2	5280.4
20°	10844.3	10915.8	10881.2	10955.2	11011.9	11019.3	10676.6	9673.3	8149.8	7930.4	5790.7
22.5°	12133.6	12131.1	12042.3	11909.2	11798.3	11793.4	11482.7	10590.4	8953.5	8741.5	6303.4
25°	13763.0	13770.4	13597.9	13218.2	12942.1	12604.4	12246.9	11394.0	9813.8	9552.5	6843.3
27.5°	15631.6	15584.8	15323.5	14800.9	14253.6	13676.7	13161.5	12328.3	10725.9	10509.0	7462.1
30°	17310.4	17293.1	16987.5	16349.0	15629.2	15049.8	14302.9	13499.3	11906.8	11640.5	8154.8
32.5°	18873.3	18898.0	18474.0	17813.3	17118.1	16450.1	15661.2	14618.4	13065.4	12688.2	8909.1
35°	20093.6	20118.2	19679.4	19129.7	18414.8	17860.1	17108.3	15811.6	14209.2	13891.2	9776.9
37.5°	20744.4	20776.4	20522.5	20108.4	19662.2	19383.6	18683.5	17347.4	15599.6	15407.3	10802.4
40°	20867.6	20904.6	20793.7	20682.7	20658.1	20857.8	20653.2	19156.8	17527.3	17226.6	12330.8
42.5°	20497.9	20547.2	20596.5	20843.0	21345.9	22078.0	22790.5	21612.1	20009.8	19605.5	14199.4
45°	19526.6	19521.7	19716.4	20354.9	21481.5	23044.4	25023.9	24686.2	23392.0	22911.3	16839.6
47.5°	17865.1	17840.4	18262.0	19171.6	20926.8	23221.9	26845.7	28418.4	27708.5	27264.7	19677.0
50°	15333.3	15454.1	16117.3	17386.8	19548.8	22684.5	27407.7	30866.4	31250.9	30780.1	21969.6
52.5°	12367.7	12362.8	13403.1	15126.3	17507.6	21501.2	27015.8	31310.1	32402.2	32042.2	23098.6
55°	9153.2	9217.3	10299.5	12037.4	14857.6	19341.7	25736.3	30854.0	32841.0	32587.0	23843.1
57°	6808.8	6922.2	7789.9	9628.9	12550.2	17204.4	24032.9	30038.1	33013.5	32875.5	24461.8
57.5°	6355.2	6360.1	7205.7	8877.1	11874.7	16383.5	23544.8	29697.9	33008.6	32932.2	24562.9
60°	3912.2	4035.5	4619.7	6000.2	8692.2	12786.8	20273.5	27743.0	32752.2	32863.1	24994.3
62.5°	2341.9	2393.7	2773.3	3616.4	5603.3	9333.1	16590.6	25240.8	32084.1	32421.9	24964.7
65°	1506.2	1518.5	1691.1	2189.1	3503.0	6308.4	12784.4	21935.1	30356.1	30977.3	23988.5
67.5°	1163.6	1183.3	1252.3	1437.2	2031.3	3929.5	9042.2	18407.4	27560.6	28361.7	21622.0
70°	1032.9	1042.8	1067.4	1126.6	1343.5	2218.7	5625.5	14379.3	22854.6	23081.4	16920.9
72.5°	843.1	870.2	946.6	966.3	1065.0	1385.4	3130.8	9651.1	15355.5	15412.2	9466.2
75°	653.3	658.2	771.6	828.3	897.3	954.0	1397.7	4866.2	7375.8	6981.4	3648.4
77.5°	488.1	510.3	562.1	633.5	732.2	682.9	626.2	1834.1	2290.1	2248.2	1060.0
80°	313.1	325.4	392.0	475.8	569.5	446.2	352.5	537.4	502.9	517.7	253.9
82.5°	157.8	160.2	251.4	387.0	362.4	224.3	221.9	219.4	187.4	184.9	118.3
85°	17.3	37.0	162.7	221.9	162.7	74.0	103.5	101.1	98.6	101.1	69.0
87.5°	2.5	2.5	27.1	32.0	22.2	24.7	29.6	32.0	39.4	37.0	29.6
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°	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2	2990.2
2.5°	3079.0	2980.4	2798.0	2622.9	2492.3	2408.5	2300.0	2260.6	2203.9	2196.5	2169.3
5°	3212.1	3024.8	2706.8	2455.3	2253.2	2100.3	1967.2	1856.3	1767.5	1747.8	1757.7
7.5°	3401.9	3123.4	2679.6	2337.0	2055.9	1794.6	1582.6	1452.0	1358.3	1323.8	1328.7
10°	3616.4	3254.0	2674.7	2211.3	1782.3	1461.8	1230.1	1114.3	1060.0	1040.3	1018.1
12.5°	3870.3	3404.4	2662.4	2016.5	1481.6	1166.0	1000.9	931.8	880.1	865.3	865.3
15°	4156.3	3564.6	2603.2	1774.9	1203.0	963.9	852.9	798.7	781.5	766.7	766.7
17.5°	4454.6	3722.4	2480.0	1476.6	998.4	825.8	756.8	724.8	700.1	682.9	682.9
20°	4794.7	3877.7	2282.7	1212.9	843.1	737.1	682.9	645.9	626.2	611.4	606.4
22.5°	5117.7	4003.4	2031.3	995.9	734.6	663.1	613.8	574.4	554.7	547.3	547.3
25°	5452.9	4079.9	1728.1	823.4	670.5	601.5	547.3	515.2	498.0	493.0	490.6
27.5°	5778.4	4124.2	1461.8	719.8	611.4	544.8	493.0	468.4	451.1	446.2	448.7
30°	6172.8	4131.6	1203.0	645.9	559.6	490.6	443.7	421.5	411.7	406.8	404.3
32.5°	6572.1	4121.8	1010.7	601.5	510.3	443.7	404.3	387.0	379.6	372.2	372.2
35°	7020.8	4070.0	860.3	557.1	463.5	404.3	369.8	355.0	345.1	337.7	335.3
37.5°	7577.9	4042.9	774.1	507.8	421.5	367.3	335.3	320.5	313.1	303.2	300.8
40°	8455.5	4163.7	746.9	463.5	379.6	332.8	303.2	286.0	276.1	266.2	263.8
42.5°	9550.1	4375.7	702.6	419.1	342.7	300.8	271.2	251.4	234.2	221.9	216.9
45°	10967.5	4654.2	633.5	372.2	310.6	266.2	239.1	214.5	192.3	182.4	180.0
47.5°	12454.0	4922.9	571.9	335.3	276.1	236.7	207.1	180.0	160.2	152.8	150.4
50°	13366.1	4977.2	532.5	293.4	241.6	204.6	175.0	150.4	138.0	130.7	130.7
52.5°	13782.7	4890.9	478.2	256.4	209.5	180.0	150.4	130.7	123.3	118.3	115.9
55°	14073.6	4757.8	406.8	221.9	180.0	152.8	133.1	118.3	108.5	103.5	101.1
57°	14243.7	4577.8	352.5	194.7	155.3	133.1	118.3	106.0	96.1	86.3	86.3
57.5°	14251.1	4508.8	337.7	192.3	147.9	128.2	115.9	103.5	91.2	81.4	78.9
60°	14031.7	4035.5	271.2	162.7	118.3	108.5	96.1	81.4	64.1	54.2	51.8
62.5°	13326.7	3434.0	224.3	138.0	96.1	83.8	69.0	61.6	44.4	32.0	32.0
65°	12259.3	2785.6	192.3	110.9	78.9	61.6	46.8	44.4	27.1	14.8	12.3
67.5°	10716.1	2169.3	162.7	91.2	66.6	44.4	32.0	29.6	14.8	4.9	0.0
70°	8164.6	1479.1	135.6	74.0	49.3	32.0	22.2	17.3	9.9	2.5	0.0
72.5°	4706.0	813.5	113.4	56.7	37.0	24.7	17.3	9.9	9.9	0.0	0.0
75°	1681.2	350.1	86.3	41.9	29.6	19.7	12.3	4.9	7.4	2.5	0.0
77.5°	534.9	187.4	56.7	32.0	24.7	14.8	9.9	4.9	4.9	2.5	0.0
80°	157.8	98.6	34.5	27.1	17.3	12.3	7.4	2.5	4.9	2.5	0.0
82.5°	86.3	49.3	27.1	19.7	17.3	9.9	7.4	2.5	2.5	2.5	0.0
85°	44.4	29.6	22.2	19.7	17.3	9.9	7.4	2.5	0.0	2.5	2.5
87.5°	24.7	22.2	22.2	19.7	17.3	12.3	7.4	2.5	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)