

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: P454441

Luminaire Tested: **GALN-SA5C-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26320 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

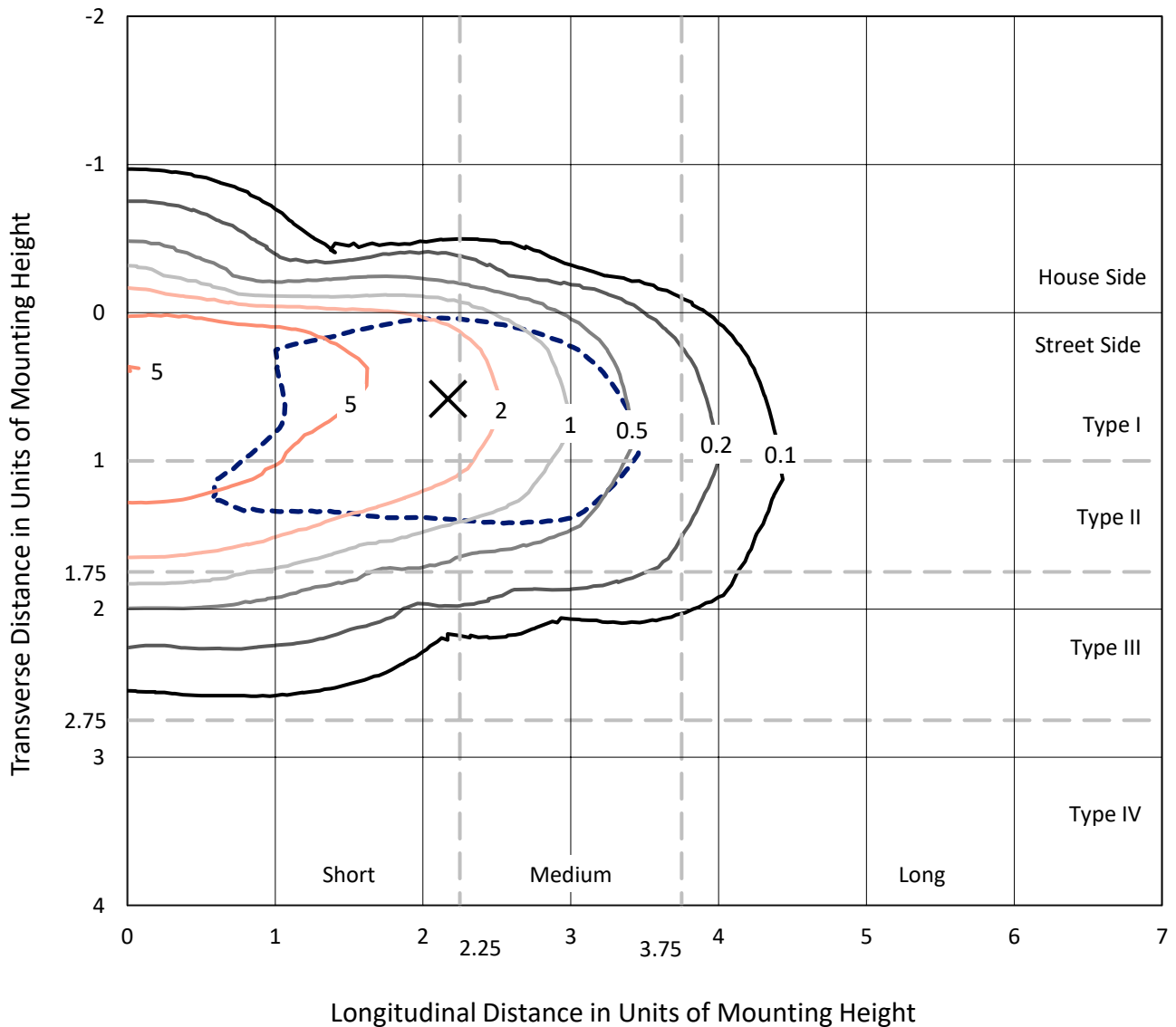
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

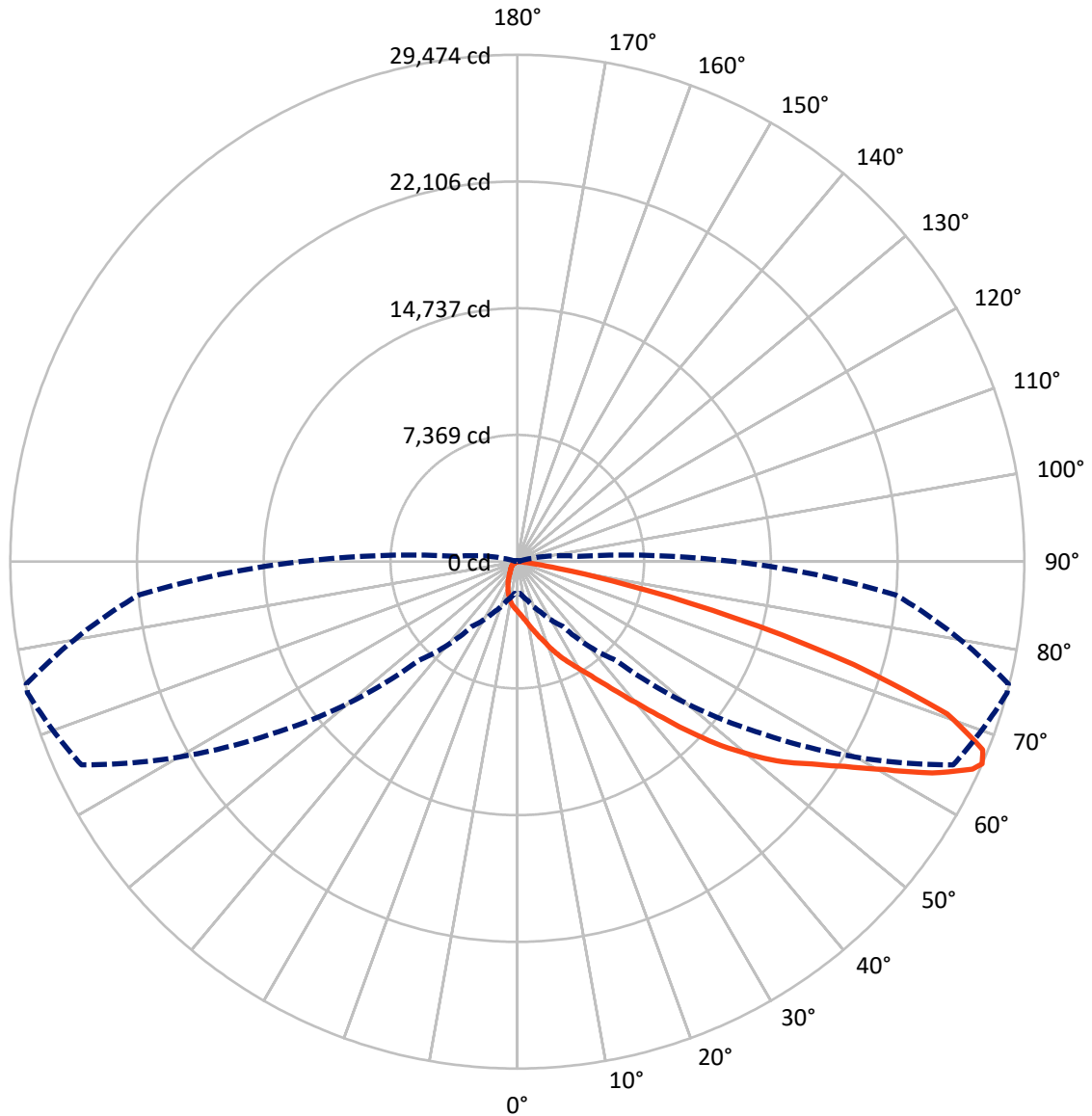
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1624.9	0.0	1624.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	24695.1	0.0	24695.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	26320.0	0.0	26320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	1.1
10°-20°	817.1	3.1
20°-30°	1410.9	5.4
30°-40°	2544.9	9.7
40°-50°	4597.5	17.5
50°-60°	7167.5	27.2
60°-70°	6808.8	25.9
70°-80°	2551.8	9.7
80°-90°	144.0	0.5
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°	26320.0	100.0
0°-180°	26320.0	100.0

Coefficient of Utilization



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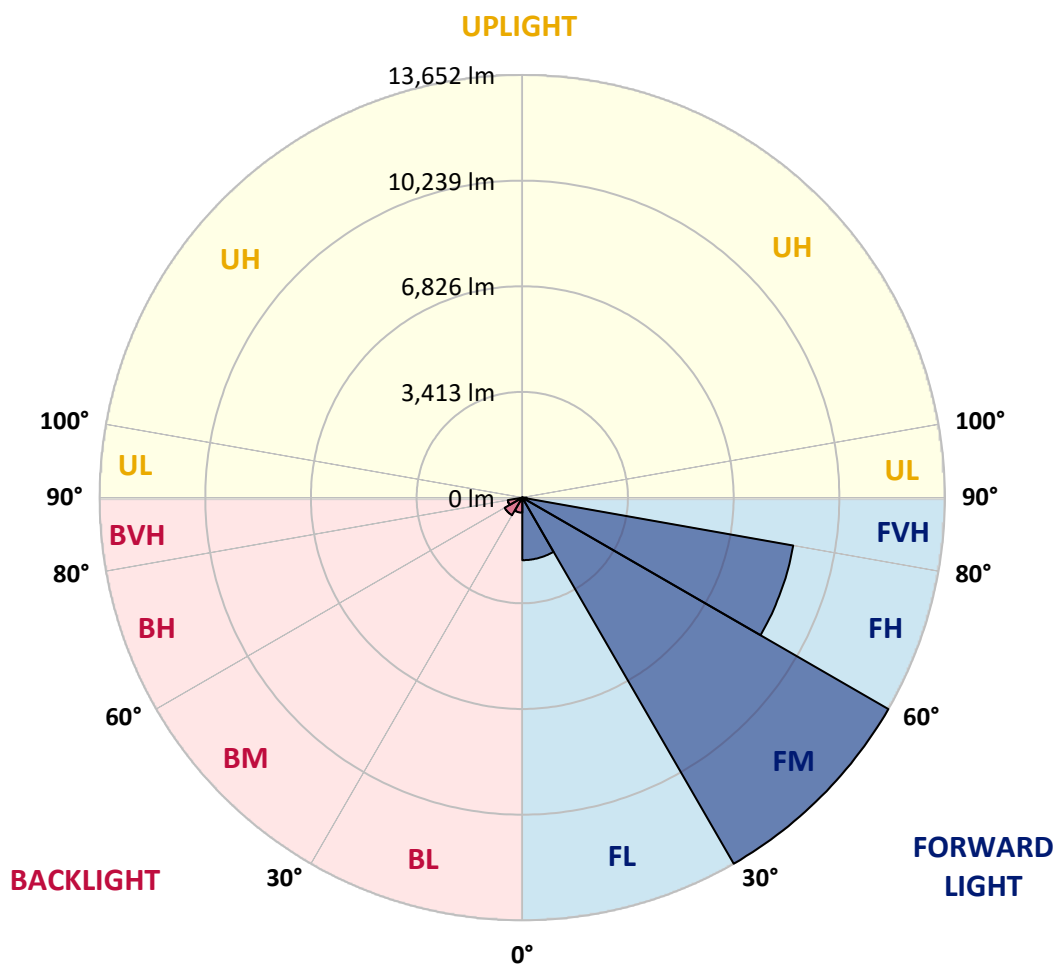
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.3	7.7			
FM (30°-60°)	13652.2	51.9			
FH (60°-80°)	8886.1	33.8			G4/12000
FVH (80°-90°)	136.5	0.5			G2/225
BL (0°-30°)	485.3	1.8	B1/500		
BM (30°-60°)	657.7	2.5	B1/1000		
BH (60°-80°)	474.5	1.8	B1/500		G1/500
BVH (80°-90°)	7.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4
2.5°	3438.8	3396.0	3409.7	3390.2	3345.4	3279.3	3220.9	3137.2	3053.5	3039.9	2946.5
5°	3892.3	3880.6	3865.0	3808.6	3777.5	3676.3	3555.6	3411.6	3238.4	3207.3	3037.9
7.5°	4201.7	4195.9	4203.7	4174.5	4147.2	4055.8	3927.3	3730.8	3462.2	3444.7	3162.5
10°	4302.9	4318.5	4347.7	4394.4	4437.2	4408.0	4310.7	4065.5	3752.2	3701.6	3304.6
12.5°	4244.5	4262.1	4332.1	4456.7	4594.9	4674.6	4635.7	4456.7	4059.7	4018.8	3464.1
15°	4094.7	4116.1	4215.4	4408.0	4655.2	4880.9	4978.2	4849.8	4417.8	4351.6	3656.8
17.5°	3872.8	3904.0	4046.0	4301.0	4639.6	5028.8	5303.3	5260.4	4799.2	4736.9	3867.0
20°	3705.5	3728.8	3849.5	4141.4	4573.4	5110.6	5612.7	5733.4	5270.2	5163.1	4114.2
22.5°	3816.4	3824.2	3865.0	4040.2	4454.7	5132.0	5885.2	6225.7	5770.3	5675.0	4371.0
25°	4359.4	4281.5	4240.7	4201.7	4429.4	5112.5	6132.3	6739.5	6268.5	6167.3	4626.0
27.5°	5215.7	5180.6	4974.4	4698.0	4645.5	5137.8	6295.8	7226.0	6737.6	6628.6	4875.1
30°	6147.9	6087.5	5961.0	5556.3	5149.5	5316.9	6414.5	7699.0	7292.2	7148.2	5102.8
32.5°	7004.2	7043.1	6854.3	6437.9	5966.9	5698.3	6568.2	8214.7	7928.6	7749.6	5367.5
35°	8002.6	8080.4	7790.4	7391.5	6840.7	6387.3	6868.0	8796.6	8736.3	8510.5	5776.2
37.5°	9016.5	9063.2	8886.1	8325.6	7829.4	7263.0	7432.3	9514.7	9730.7	9538.1	6264.6
40°	9868.9	9933.1	9802.7	9304.5	8775.2	8277.0	8251.7	10297.1	10914.0	10715.5	6992.5
42.5°	10520.9	10569.5	10573.4	10221.2	9744.4	9518.6	9296.7	11295.4	12397.0	12167.3	7837.1
45°	11344.1	11414.2	11373.3	11133.9	10777.8	10736.9	10622.1	12502.1	14171.8	13881.9	8932.8
47.5°	12616.9	12663.6	12562.4	12280.2	11918.2	11982.4	11914.3	13854.6	15981.8	15732.7	10067.4
50°	13500.4	13578.3	13722.3	13835.2	13572.4	13335.0	13132.6	15117.7	17700.2	17476.4	11227.3
52.5°	13490.7	13619.1	14074.5	14642.8	15216.9	15144.9	14563.0	16513.1	19340.8	19064.5	12317.2
55°	12581.8	12831.0	13500.4	14508.5	16098.5	16890.6	16625.9	18128.4	20757.6	20570.8	13580.2
57.5°	10705.8	10857.6	11787.8	13196.8	15606.2	17711.9	19015.8	20317.8	22456.6	22369.0	15541.9
60°	7200.7	7268.9	8465.7	10207.5	13286.3	16892.6	20767.3	22966.5	24548.7	24505.9	17832.5
62.5°	4125.8	4155.0	5023.0	6492.3	9454.4	14315.9	20915.2	26234.1	27057.3	27080.6	20483.2
65°	2220.6	2236.1	2936.7	3810.6	5752.8	10203.7	18807.6	28024.5	29085.2	29129.9	22125.8
66°	1917.0	1843.0	2337.3	3248.1	4577.3	8121.3	17474.5	27960.3	29474.4	29425.8	22067.4
67.5°	1457.7	1523.8	1866.4	2496.9	3392.1	5774.2	14426.8	26716.7	29178.6	29026.8	21170.2
70°	1043.1	1070.4	1329.2	1780.7	2310.1	3168.3	9218.9	22190.0	26520.2	26315.8	18443.6
72.5°	673.4	702.6	941.9	1288.3	1669.8	1730.1	5161.2	16032.4	20446.2	20417.0	13889.7
75°	480.7	507.9	622.8	922.5	1255.3	1070.4	2485.2	10805.0	12998.3	12910.7	8592.2
77.5°	348.4	362.0	416.5	603.3	897.2	766.8	1152.1	5770.3	6470.9	6776.5	3796.9
80°	200.5	212.1	290.0	367.8	607.2	523.5	550.8	2315.9	2387.9	2273.1	1187.1
82.5°	99.3	112.9	173.2	251.1	379.5	352.3	253.0	696.7	735.6	716.2	299.7
85°	23.4	29.2	97.3	165.4	184.9	157.6	122.6	204.3	253.0	247.2	114.8
87.5°	1.9	3.9	35.0	29.2	31.1	52.5	42.8	52.5	81.7	75.9	40.9
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°	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4
2.5°	2903.7	2866.7	2759.6	2654.5	2567.0	2475.5	2391.8	2343.2	2323.7	2302.3	2312.0
5°	2944.5	2855.0	2639.0	2452.1	2269.2	2113.5	1989.0	1909.2	1870.2	1864.4	1854.7
7.5°	2999.0	2845.3	2510.5	2218.6	1979.2	1806.0	1664.0	1549.1	1514.1	1483.0	1457.7
10°	3065.2	2827.8	2350.9	1973.4	1718.4	1500.5	1313.6	1177.4	1107.4	1087.9	1101.5
12.5°	3135.2	2794.7	2183.6	1747.6	1453.8	1175.5	1002.3	934.2	914.7	906.9	908.9
15°	3205.3	2753.8	2008.4	1529.7	1158.0	938.0	858.3	840.7	833.0	829.1	825.2
17.5°	3269.5	2687.6	1811.9	1317.5	938.0	801.8	772.6	757.1	741.5	735.6	725.9
20°	3345.4	2611.7	1634.8	1080.1	794.0	725.9	690.9	661.7	638.3	622.8	620.8
22.5°	3417.4	2514.4	1449.9	895.2	724.0	652.0	595.5	564.4	537.1	517.7	523.5
25°	3456.4	2395.7	1284.5	780.4	659.7	578.0	515.7	476.8	447.6	437.9	435.9
27.5°	3456.4	2249.7	1122.9	714.2	601.4	511.8	447.6	410.6	391.2	377.6	379.5
30°	3429.1	2088.2	973.1	663.6	550.8	453.5	393.1	360.0	344.5	334.7	332.8
32.5°	3407.7	1934.5	844.6	615.0	498.2	402.9	350.3	325.0	309.4	299.7	299.7
35°	3440.8	1802.1	745.4	566.3	449.6	363.9	317.2	293.9	278.3	270.5	268.6
37.5°	3528.4	1681.5	669.5	513.8	404.8	330.8	293.9	266.6	251.1	241.3	237.4
40°	3744.4	1613.4	613.0	465.1	362.0	303.6	266.6	241.3	221.9	212.1	210.2
42.5°	4090.8	1615.3	558.5	420.4	328.9	280.2	243.3	214.1	192.7	182.9	181.0
45°	4612.4	1689.3	515.7	377.6	299.7	254.9	218.0	186.8	167.4	157.6	157.6
47.5°	5237.1	1833.3	478.8	340.6	272.5	231.6	192.7	161.5	142.1	134.3	134.3
50°	5914.3	2020.1	441.8	301.7	249.1	206.3	165.4	140.1	124.6	118.7	118.7
52.5°	6605.2	2245.9	404.8	270.5	223.8	179.0	142.1	124.6	110.9	107.0	105.1
55°	7512.1	2533.9	365.9	237.4	196.6	153.7	126.5	109.0	93.4	87.6	85.6
57.5°	8907.5	2967.9	323.1	208.2	161.5	128.4	109.0	91.5	74.0	64.2	62.3
60°	10590.9	3497.2	278.3	182.9	130.4	105.1	87.6	70.1	54.5	42.8	40.9
62.5°	12167.3	3833.9	235.5	153.7	103.1	79.8	62.3	52.5	38.9	27.2	25.3
65°	12864.0	3721.0	194.6	124.6	81.7	56.4	40.9	37.0	23.4	11.7	9.7
66°	12632.4	3553.7	179.0	112.9	74.0	48.7	35.0	31.1	17.5	5.8	5.8
67.5°	11949.3	3158.6	155.7	97.3	64.2	38.9	27.2	23.4	9.7	1.9	0.0
70°	10238.7	2555.3	122.6	72.0	46.7	27.2	15.6	11.7	5.8	0.0	0.0
72.5°	7864.4	1903.3	97.3	54.5	33.1	15.6	7.8	3.9	5.8	0.0	0.0
75°	4818.7	1087.9	75.9	40.9	21.4	9.7	5.8	0.0	5.8	1.9	0.0
77.5°	2138.8	488.5	50.6	27.2	15.6	7.8	3.9	0.0	3.9	1.9	0.0
80°	541.0	159.6	29.2	19.5	11.7	5.8	1.9	0.0	3.9	3.9	1.9
82.5°	147.9	58.4	21.4	15.6	9.7	5.8	1.9	0.0	3.9	3.9	3.9
85°	58.4	27.2	19.5	15.6	11.7	5.8	1.9	0.0	3.9	3.9	3.9
87.5°	27.2	19.5	19.5	17.5	13.6	5.8	1.9	0.0	3.9	1.9	3.9
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)