

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: P647381

Luminaire Tested: **GALN-SA4D-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647381
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-SA4D-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA 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: 19611 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

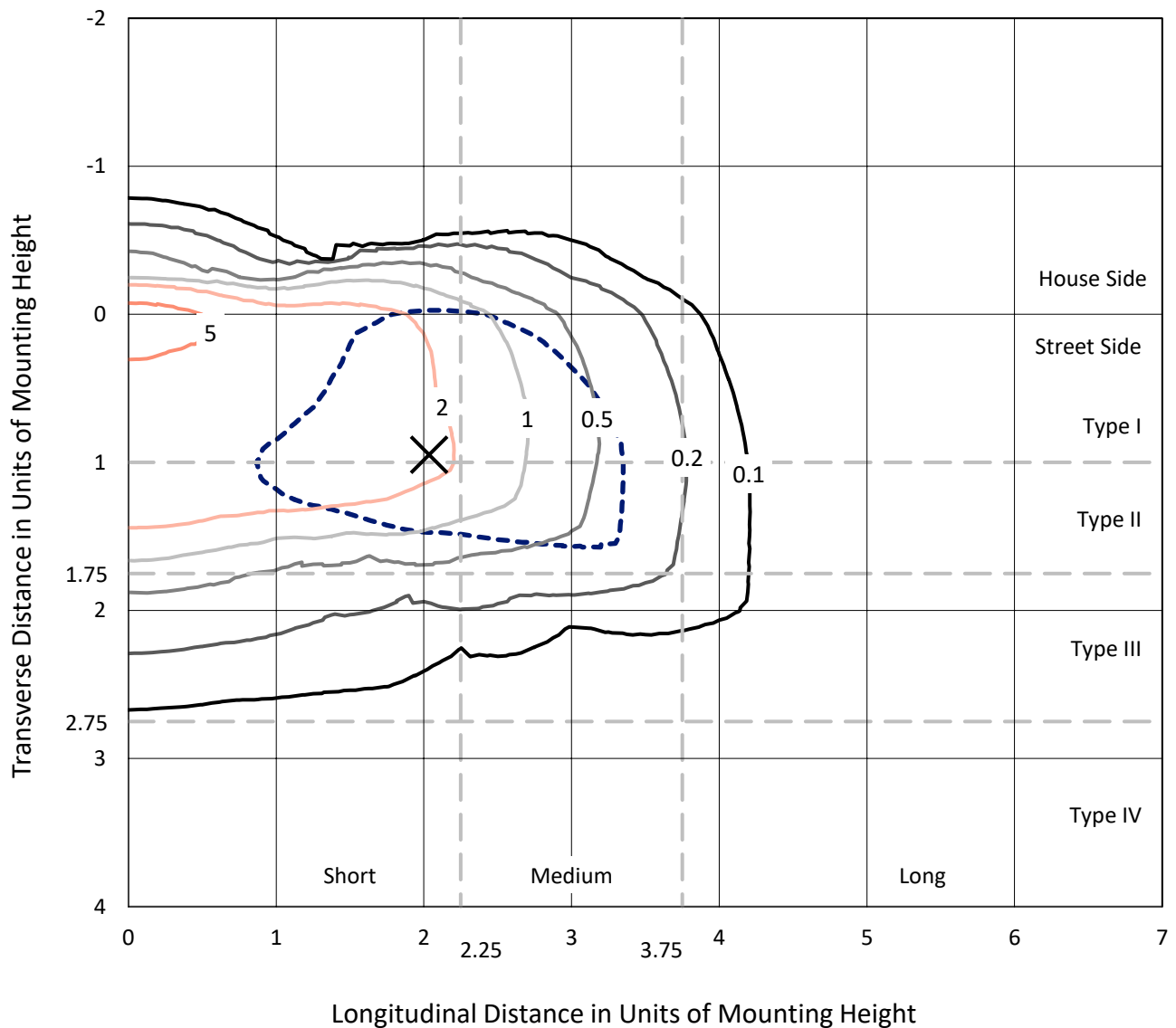
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

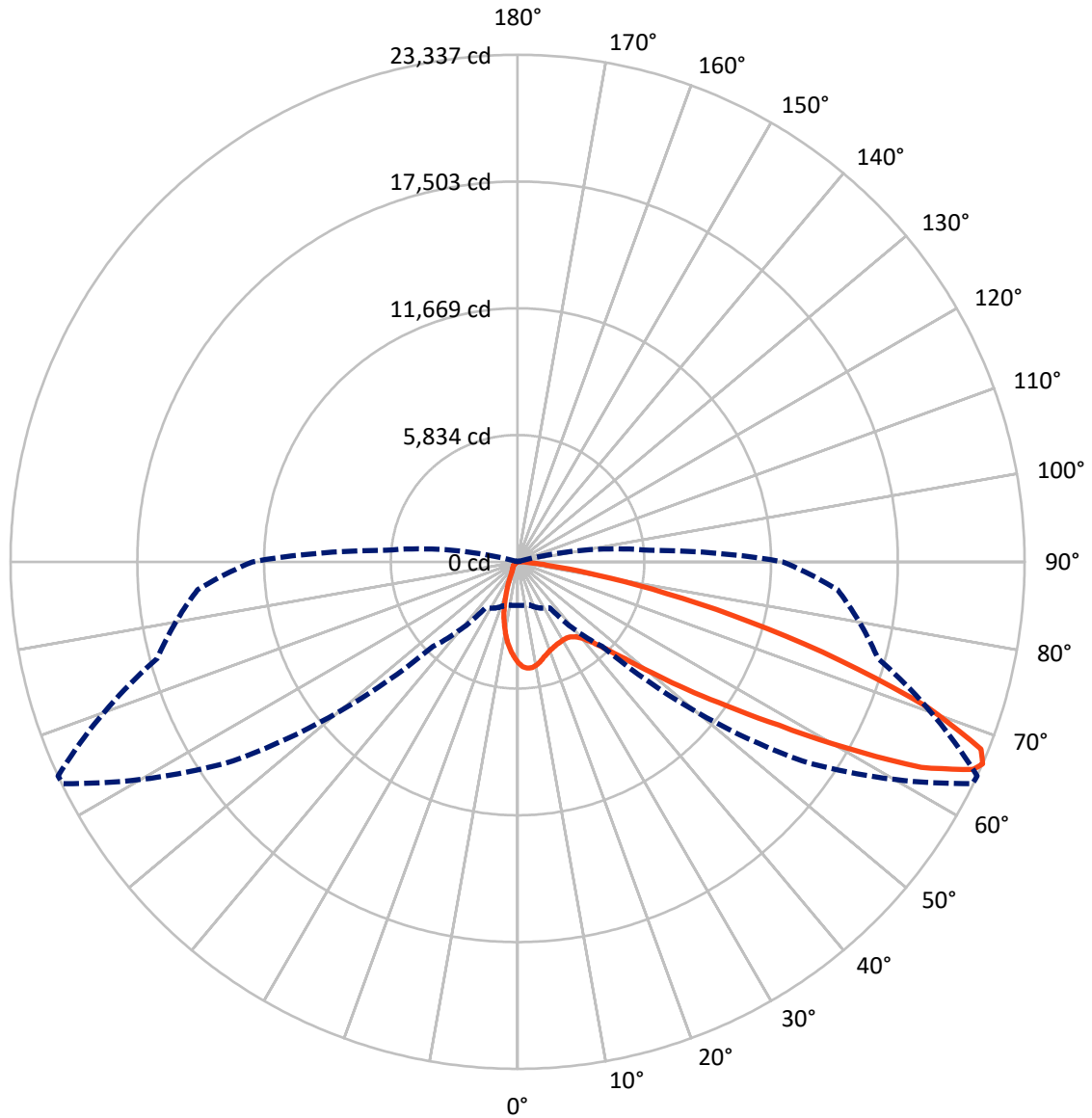
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	2028.1	0.0	2028.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17583.0	0.0	17583.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	19611.0	0.0	19611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.3	1.9
10°-20°	828.7	4.2
20°-30°	1187.1	6.1
30°-40°	1733.9	8.8
40°-50°	2907.4	14.8
50°-60°	4852.0	24.7
60°-70°	5150.3	26.3
70°-80°	2332.6	11.9
80°-90°	238.7	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°	19611.0	100.0
0°-180°	19611.0	100.0

Coefficient of Utilization



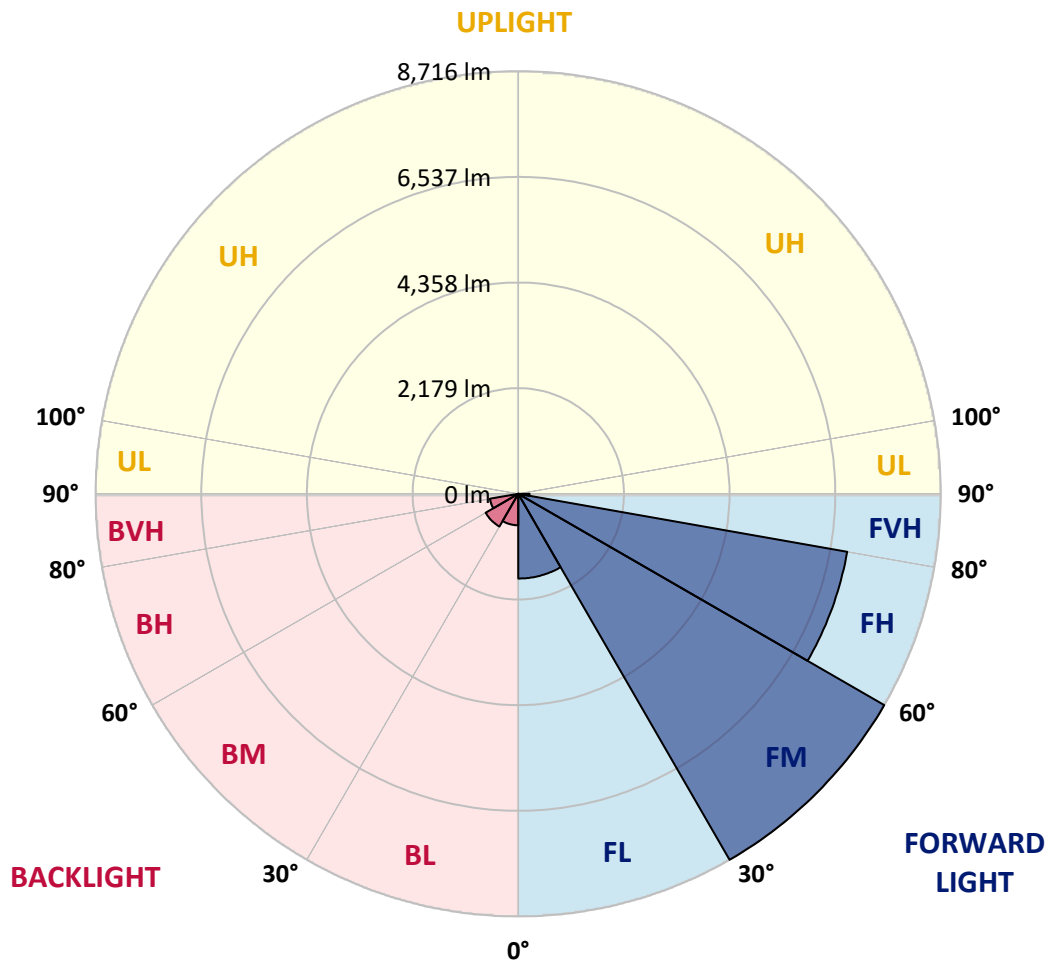
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.4	8.9			
FM (30°-60°)	8715.6	44.4			
FH (60°-80°)	6888.9	35.1			G3/7500
FVH (80°-90°)	231.1	1.2			G3/500
BL (0°-30°)	648.8	3.3	B2/1000		
BM (30°-60°)	777.8	4.0	B1/1000		
BH (60°-80°)	593.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5
2.5°	4900.8	4906.1	4912.8	4922.0	4928.7	4908.8	4881.0	4849.2	4842.5	4775.0	4692.9
5°	4638.6	4646.6	4704.8	4736.6	4808.1	4873.0	4914.1	4919.4	4916.7	4853.2	4722.0
7.5°	4265.1	4287.6	4344.6	4400.1	4534.0	4657.1	4802.8	4904.8	4911.4	4894.2	4731.3
10°	3961.7	3976.3	4005.4	4115.4	4226.6	4414.7	4618.7	4810.8	4826.6	4895.6	4723.4
12.5°	3724.7	3745.8	3781.6	3866.4	4000.1	4177.6	4409.5	4667.7	4700.8	4870.3	4700.8
15°	3559.0	3569.7	3605.4	3688.9	3818.7	3982.9	4217.4	4518.1	4547.2	4837.3	4696.8
17.5°	3480.9	3492.8	3518.0	3584.3	3691.5	3843.8	4073.0	4397.5	4434.6	4816.1	4711.4
20°	3502.1	3512.7	3514.0	3548.5	3621.3	3749.8	3967.0	4284.9	4332.6	4802.8	4735.3
22.5°	3622.6	3624.0	3608.1	3592.2	3617.4	3710.1	3902.2	4213.4	4262.4	4800.2	4763.1
25°	3802.8	3806.8	3780.2	3724.7	3674.3	3722.0	3887.5	4167.0	4210.7	4793.5	4780.3
27.5°	4051.8	4050.5	4042.6	3949.8	3806.8	3775.0	3899.5	4141.8	4178.9	4775.0	4786.9
30°	4400.1	4389.6	4372.4	4267.7	4049.1	3903.4	3949.8	4125.9	4160.4	4748.5	4769.7
32.5°	4743.2	4783.0	4780.3	4680.9	4408.1	4132.6	4054.5	4147.2	4172.4	4731.3	4744.5
35°	5143.2	5141.9	5243.9	5206.8	4887.6	4425.4	4233.3	4217.4	4237.2	4743.2	4732.6
37.5°	5514.1	5548.6	5707.5	5745.9	5454.5	4838.5	4486.3	4368.4	4375.0	4824.0	4761.7
40°	5976.4	6042.6	6279.7	6408.2	6151.2	5451.9	4859.8	4645.2	4646.6	5022.7	4871.7
42.5°	6572.4	6677.0	6898.2	7112.9	6975.0	6177.7	5420.1	5083.6	5081.0	5372.4	5123.3
45°	7296.9	7369.8	7621.5	7961.9	7874.5	7191.0	6236.0	5763.1	5728.7	5945.9	5569.7
47.5°	7922.2	8021.4	8277.1	8665.2	9062.6	8428.1	7210.9	6696.9	6674.4	6858.5	6335.3
50°	8195.0	8282.4	8551.3	9095.7	10058.7	10052.0	8662.6	8059.9	8021.4	8120.8	7519.5
52.5°	7895.6	7977.8	8249.3	8927.5	10527.5	12030.9	10765.9	9769.9	9723.5	9596.4	8934.1
55°	6870.4	6938.0	7339.3	8118.1	10347.4	13350.2	13664.1	11882.6	11702.4	11208.3	10535.5
57.5°	5470.4	5436.0	5685.0	6589.6	9290.4	13792.5	16639.0	14514.4	14192.6	12601.8	11890.5
60°	3790.9	3896.8	3997.5	4593.5	6985.7	13025.6	18489.4	17823.1	17399.3	13972.7	13188.5
62.5°	2786.9	2857.1	2923.3	3198.8	4392.2	10400.4	18816.6	21222.0	20845.8	15428.4	14427.0
65°	2204.1	2209.3	2235.9	2507.4	2894.1	6763.2	17244.3	23138.6	23041.9	16829.7	14929.0
66°	2008.0	2009.3	2050.4	2341.8	2597.4	5507.5	15984.7	23284.3	23337.2	17166.2	14781.9
67.5°	1755.0	1749.7	1809.4	2104.7	2365.7	3971.0	13730.3	22693.5	23007.4	17424.5	14253.5
70°	1360.3	1353.7	1426.5	1765.6	2178.9	2649.1	9126.2	19485.4	19991.4	16896.0	12611.1
72.5°	906.0	911.3	1035.8	1393.4	2079.6	2332.6	5490.2	14823.1	15538.3	13952.8	9920.8
75°	528.5	537.8	679.5	1035.8	1805.4	2224.0	3107.4	10569.9	11026.9	9634.8	6180.4
77.5°	276.9	280.8	380.1	683.5	1384.2	2065.0	2070.3	6752.6	6967.1	4682.3	2446.4
80°	147.0	143.1	204.0	411.9	952.4	1813.3	1679.5	3574.9	3716.7	1390.8	618.6
82.5°	55.6	60.9	108.6	270.2	562.9	1302.1	1446.4	1580.2	1531.2	306.0	259.6
85°	10.6	13.2	46.4	160.3	283.4	544.4	1066.3	774.9	717.9	115.3	149.7
87.5°	1.3	2.7	13.2	38.4	41.0	184.1	315.2	214.5	185.4	42.4	62.2
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°	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5
2.5°	4653.1	4617.4	4498.2	4380.3	4259.8	4151.2	4077.0	3956.4	3926.0	3882.3	3857.1
5°	4643.9	4560.4	4331.2	4080.9	3847.8	3596.2	3404.1	3218.7	3119.3	3069.0	3050.4
7.5°	4617.4	4484.9	4127.3	3735.2	3361.7	2985.5	2658.4	2409.4	2249.1	2139.2	2065.0
10°	4564.4	4381.6	3890.2	3351.1	2786.9	2290.1	1875.6	1560.3	1316.6	1239.8	1242.5
12.5°	4510.1	4266.4	3625.3	2924.6	2225.2	1598.7	1159.0	910.0	793.4	755.0	747.1
15°	4459.7	4156.5	3365.6	2511.3	1657.0	1035.8	747.1	659.6	627.8	621.2	619.9
17.5°	4433.3	4054.5	3088.9	2038.5	1156.3	703.4	598.7	574.9	565.6	559.0	556.3
20°	4410.7	3965.7	2824.0	1596.1	790.8	576.2	536.4	514.0	498.1	491.4	487.4
22.5°	4394.8	3874.3	2549.8	1235.8	605.3	511.3	475.5	446.4	423.8	415.9	410.6
25°	4371.0	3773.7	2272.9	903.3	510.0	454.3	413.3	378.8	349.7	335.1	332.5
27.5°	4336.6	3659.7	1969.6	668.9	455.6	403.9	353.7	311.2	282.1	266.2	267.6
30°	4281.0	3540.5	1666.3	531.1	411.9	352.4	298.0	257.0	229.2	217.2	215.9
32.5°	4214.7	3396.2	1388.1	455.6	372.2	306.0	249.0	213.3	192.1	182.8	181.5
35°	4152.5	3250.5	1104.7	409.3	331.1	263.6	209.3	178.8	162.9	155.0	156.3
37.5°	4118.0	3120.6	861.0	372.2	298.0	226.5	180.2	153.6	139.1	132.5	131.2
40°	4140.6	3014.7	684.8	339.1	261.0	194.7	155.0	132.5	117.9	108.6	108.6
42.5°	4246.5	2968.4	552.3	307.3	226.5	168.2	135.1	113.9	98.0	88.7	90.0
45°	4569.7	3017.3	462.3	278.1	194.7	145.7	116.6	94.0	79.5	72.8	71.5
47.5°	5106.2	3201.5	400.0	247.7	166.9	124.5	98.0	78.1	63.6	58.3	56.9
50°	6043.9	3581.6	353.7	217.2	141.7	105.9	80.8	62.2	50.3	45.0	45.0
52.5°	7334.0	4410.7	320.6	182.8	119.2	90.0	66.2	50.3	39.7	35.8	34.5
55°	8682.5	5284.9	303.3	153.6	99.4	74.2	53.0	39.7	30.5	26.5	25.1
57.5°	9979.2	5971.1	283.4	124.5	79.5	56.9	41.0	30.5	21.2	18.6	17.2
60°	11222.9	6526.1	241.1	99.4	62.2	41.0	30.5	21.2	14.6	11.9	11.9
62.5°	12335.5	6849.2	189.4	79.5	47.7	29.1	19.9	15.9	10.6	7.9	7.9
65°	12465.4	6429.4	143.1	60.9	34.5	18.6	11.9	11.9	7.9	5.3	5.3
66°	12204.4	6073.0	125.8	55.6	30.5	15.9	10.6	9.2	6.7	4.0	4.0
67.5°	11621.6	5465.1	108.6	47.7	25.1	11.9	7.9	7.9	5.3	2.7	2.7
70°	10041.4	4463.7	86.1	35.8	18.6	9.2	5.3	5.3	4.0	2.7	2.7
72.5°	7653.3	3332.6	70.2	26.5	13.2	6.7	4.0	4.0	4.0	2.7	2.7
75°	4616.0	1794.8	54.3	19.9	11.9	5.3	2.7	4.0	5.3	4.0	2.7
77.5°	1700.8	610.6	42.4	15.9	9.2	5.3	2.7	2.7	5.3	4.0	4.0
80°	417.3	158.9	30.5	13.2	9.2	5.3	2.7	2.7	5.3	5.3	5.3
82.5°	193.4	67.6	21.2	11.9	9.2	5.3	2.7	2.7	4.0	5.3	5.3
85°	111.3	31.8	17.2	13.2	9.2	5.3	2.7	2.7	4.0	5.3	5.3
87.5°	45.0	15.9	15.9	13.2	10.6	6.7	2.7	2.7	2.7	4.0	4.0
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)