

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: P455445

Luminaire Tested: **GALN-SA6C-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455445
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-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 25082 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

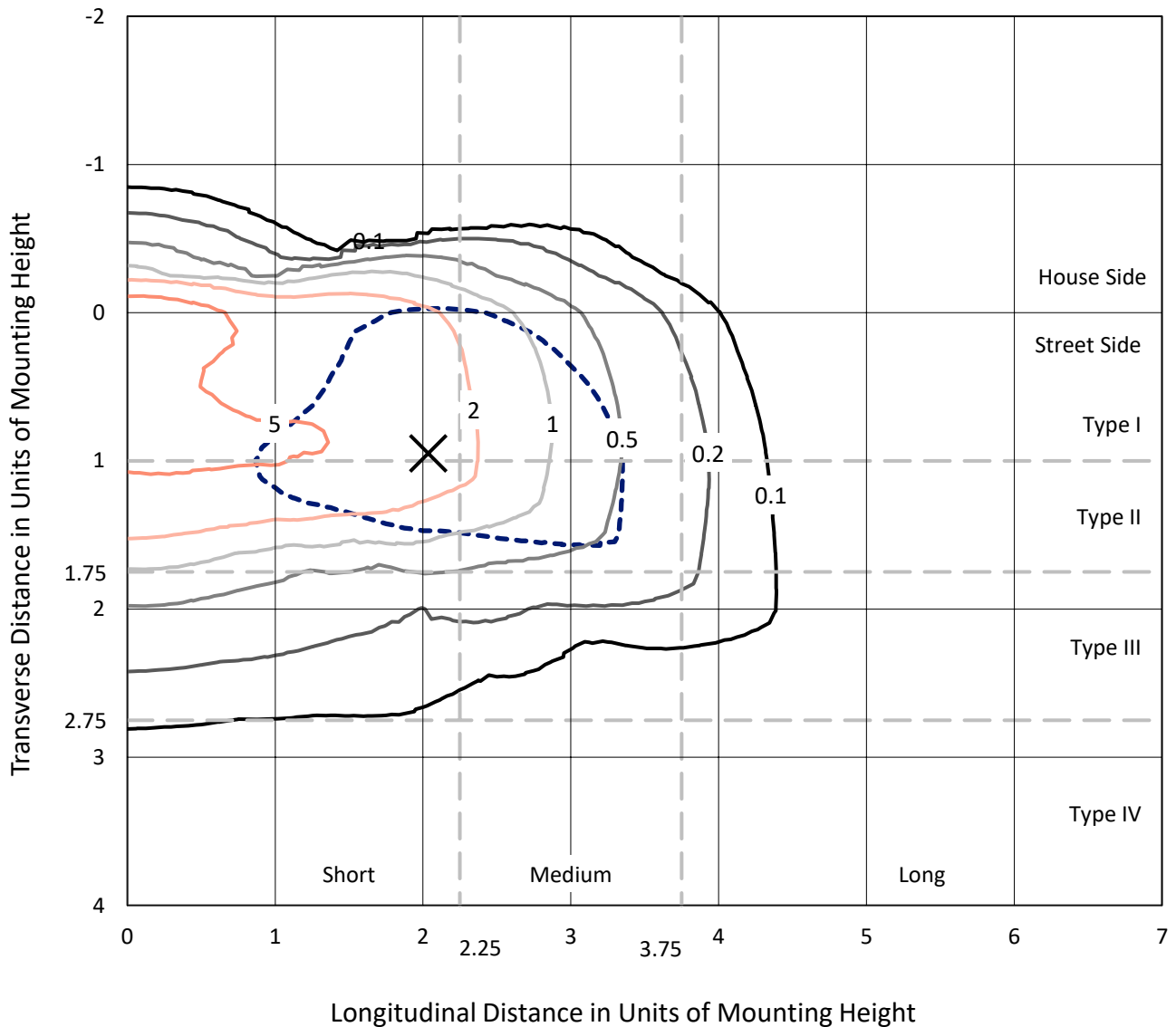
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

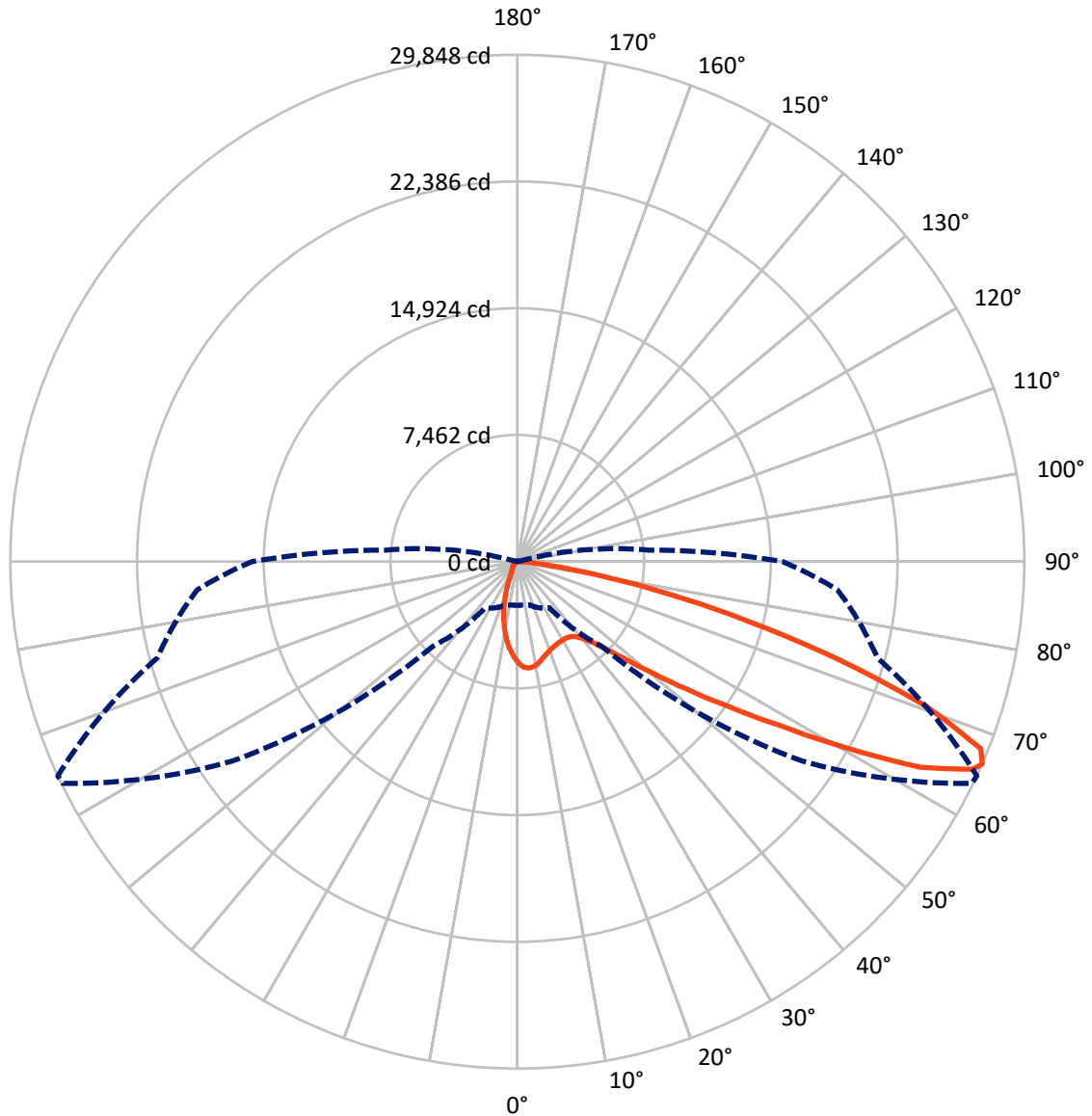
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	2593.8	0.0	2593.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22488.2	0.0	22488.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	25082.0	0.0	25082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.4	1.9
10°-20°	1059.9	4.2
20°-30°	1518.3	6.1
30°-40°	2217.6	8.8
40°-50°	3718.5	14.8
50°-60°	6205.6	24.7
60°-70°	6587.1	26.3
70°-80°	2983.3	11.9
80°-90°	305.2	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°	25082.0	100.0
0°-180°	25082.0	100.0

Coefficient of Utilization

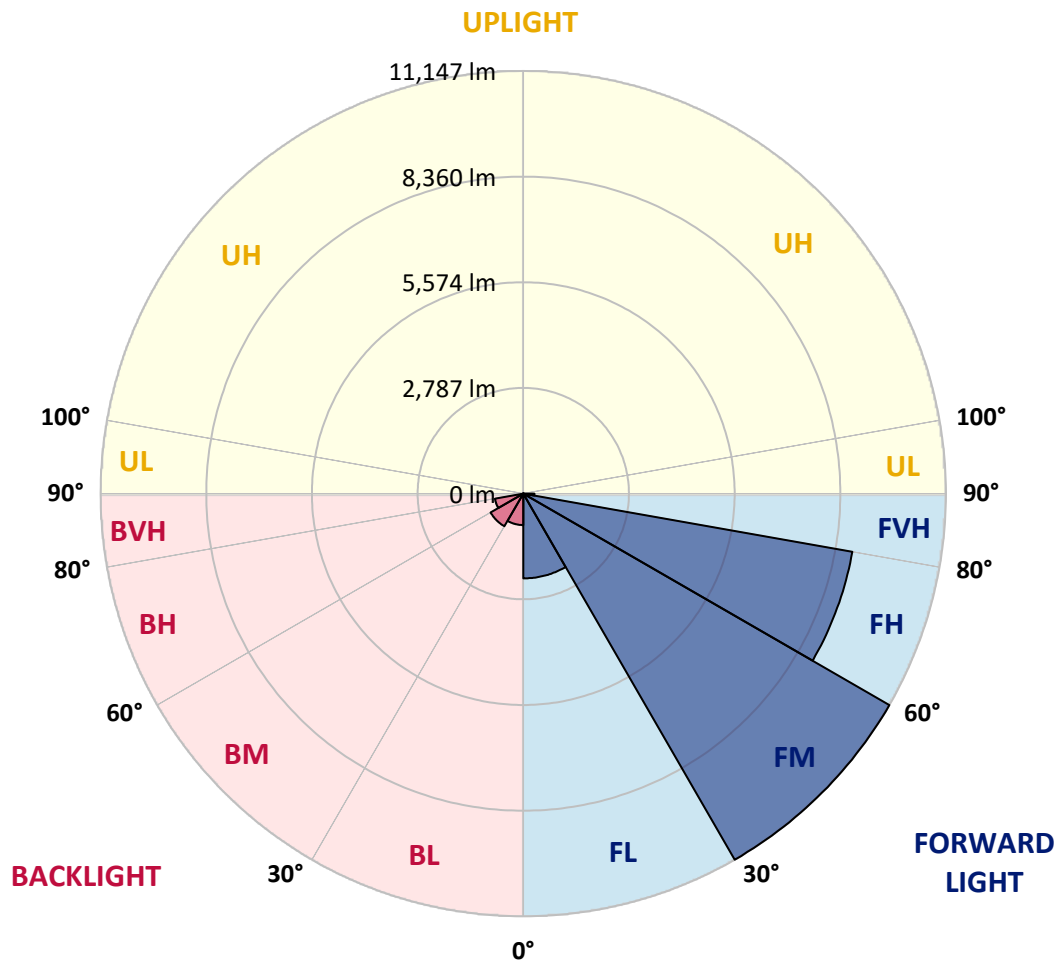


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2234.9	8.9			
FM (30°-60°)	11147.0	44.4			
FH (60°-80°)	8810.7	35.1			G4/12000
FVH (80°-90°)	295.5	1.2			G3/500
BL (0°-30°)	829.7	3.3	B2/1000		
BM (30°-60°)	994.8	4.0	B1/1000		
BH (60°-80°)	759.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.7	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9
2.5°	6268.0	6274.8	6283.3	6295.2	6303.6	6278.2	6242.6	6202.0	6193.5	6107.1	6002.1
5°	5932.6	5942.8	6017.3	6058.0	6149.5	6232.5	6285.0	6291.8	6288.4	6207.1	6039.3
7.5°	5454.9	5483.7	5556.5	5627.7	5798.8	5956.3	6142.7	6273.1	6281.6	6259.6	6051.2
10°	5067.0	5085.6	5122.9	5263.5	5405.8	5646.3	5907.2	6152.8	6173.2	6261.3	6041.0
12.5°	4763.7	4790.8	4836.6	4945.0	5116.1	5343.1	5639.5	5969.9	6012.2	6229.1	6012.2
15°	4552.0	4565.5	4611.2	4718.0	4884.0	5094.1	5393.9	5778.5	5815.7	6186.7	6007.2
17.5°	4452.0	4467.3	4499.4	4584.1	4721.4	4916.2	5209.3	5624.3	5671.7	6159.6	6025.8
20°	4479.1	4492.7	4494.4	4538.4	4631.6	4795.9	5073.7	5480.3	5541.3	6142.7	6056.3
22.5°	4633.3	4635.0	4614.6	4594.3	4626.5	4745.1	4990.7	5388.8	5451.5	6139.3	6091.9
25°	4863.7	4868.7	4834.9	4763.7	4699.3	4760.3	4972.1	5329.5	5385.4	6130.8	6113.9
27.5°	5182.1	5180.5	5170.3	5051.7	4868.7	4828.1	4987.3	5297.3	5344.8	6107.1	6122.4
30°	5627.7	5614.1	5592.1	5458.3	5178.8	4992.4	5051.7	5277.0	5321.1	6073.2	6100.3
32.5°	6066.5	6117.3	6113.9	5986.8	5637.9	5285.5	5185.5	5304.1	5336.3	6051.2	6068.1
35°	6578.1	6576.4	6706.8	6659.4	6251.1	5659.9	5414.2	5393.9	5419.3	6066.5	6052.9
37.5°	7052.4	7096.4	7299.7	7348.9	6976.2	6188.4	5737.8	5587.0	5595.5	6169.8	6090.2
40°	7643.6	7728.3	8031.6	8195.9	7867.2	6972.8	6215.5	5941.1	5942.8	6423.9	6230.8
42.5°	8406.0	8539.8	8822.7	9097.1	8921.0	7901.1	6932.1	6501.8	6498.4	6871.1	6552.6
45°	9332.6	9425.8	9747.7	10183.0	10071.2	9197.1	7975.7	7370.9	7326.8	7604.7	7123.5
47.5°	10132.2	10259.3	10586.2	11082.6	11590.8	10779.3	9222.5	8565.2	8536.4	8771.9	8102.7
50°	10481.2	10593.0	10936.9	11633.2	12864.7	12856.3	11079.2	10308.4	10259.3	10386.3	9617.2
52.5°	10098.3	10203.4	10550.6	11418.0	13464.4	15387.2	13769.4	12495.4	12436.1	12273.5	11426.5
55°	8787.1	8873.5	9386.8	10382.9	13234.0	17074.5	17476.0	15197.5	14967.1	14335.2	13474.6
57.5°	6996.5	6952.4	7270.9	8428.0	11882.2	17640.3	21280.9	18563.6	18151.9	16117.3	15207.6
60°	4848.4	4983.9	5112.7	5875.0	8934.5	16659.4	23647.5	22795.4	22253.3	17870.7	16867.8
62.5°	3564.3	3654.1	3738.8	4091.2	5617.5	13301.8	24065.9	27142.3	26661.2	19732.5	18451.8
65°	2818.9	2825.7	2859.6	3206.9	3701.5	8649.9	22055.1	29593.6	29470.0	21524.8	19093.8
66°	2568.2	2569.9	2622.4	2995.1	3322.1	7043.9	20444.0	29780.0	29847.8	21955.1	18905.8
67.5°	2244.6	2237.9	2314.1	2691.9	3025.6	5078.8	17560.7	29024.4	29425.9	22285.4	18229.8
70°	1739.8	1731.3	1824.5	2258.2	2786.7	3388.1	11672.1	24921.4	25568.5	21609.5	16129.2
72.5°	1158.7	1165.5	1324.8	1782.2	2659.7	2983.3	7021.9	18958.3	19873.1	17845.3	12688.6
75°	675.9	687.8	869.1	1324.8	2309.0	2844.3	3974.3	13518.7	14103.1	12322.6	7904.5
77.5°	354.1	359.1	486.2	874.1	1770.3	2641.0	2647.8	8636.4	8910.8	5988.5	3128.9
80°	188.0	183.0	260.9	526.9	1218.0	2319.2	2148.1	4572.3	4753.6	1778.8	791.1
82.5°	71.2	77.9	138.9	345.6	720.0	1665.3	1849.9	2021.0	1958.3	391.3	332.0
85°	13.6	16.9	59.3	205.0	362.5	696.3	1363.7	991.0	918.2	147.4	191.4
87.5°	1.7	3.4	16.9	49.1	52.5	235.5	403.2	274.4	237.2	54.2	79.6
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°	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9	5947.9
2.5°	5951.3	5905.5	5753.0	5602.3	5448.1	5309.2	5214.3	5060.2	5021.2	4965.3	4933.1
5°	5939.4	5832.7	5539.6	5219.4	4921.3	4599.4	4353.8	4116.6	3989.5	3925.2	3901.4
7.5°	5905.5	5736.1	5278.7	4777.3	4299.5	3818.4	3400.0	3081.5	2876.5	2735.9	2641.0
10°	5837.8	5604.0	4975.5	4286.0	3564.3	2929.0	2398.8	1995.6	1683.9	1585.6	1589.0
12.5°	5768.3	5456.6	4636.7	3740.5	2846.0	2044.7	1482.3	1163.8	1014.7	965.6	955.5
15°	5703.9	5316.0	4304.6	3211.9	2119.3	1324.8	955.5	843.6	803.0	794.5	792.8
17.5°	5670.0	5185.5	3950.6	2607.2	1478.9	899.5	765.7	735.2	723.4	714.9	711.5
20°	5641.2	5072.0	3611.7	2041.4	1011.4	736.9	686.1	657.3	637.0	628.5	623.4
22.5°	5620.9	4955.1	3261.1	1580.6	774.2	653.9	608.2	570.9	542.1	531.9	525.2
25°	5590.4	4826.4	2907.0	1155.4	652.2	581.1	528.5	484.5	447.2	428.6	425.2
27.5°	5546.4	4680.7	2519.1	855.5	582.8	516.7	452.3	398.1	360.8	340.5	342.2
30°	5475.2	4528.2	2131.1	679.3	526.9	450.6	381.2	328.6	293.1	277.8	276.1
32.5°	5390.5	4343.6	1775.4	582.8	476.0	391.3	318.5	272.7	245.6	233.8	232.1
35°	5310.9	4157.2	1412.9	523.5	423.5	337.1	267.7	228.7	208.4	198.2	199.9
37.5°	5266.9	3991.2	1101.1	476.0	381.2	289.7	230.4	196.5	177.9	169.4	167.7
40°	5295.7	3855.7	875.8	433.7	333.7	249.0	198.2	169.4	150.8	138.9	138.9
42.5°	5431.2	3796.4	706.4	393.0	289.7	215.1	172.8	145.7	125.4	113.5	115.2
45°	5844.5	3859.1	591.2	355.8	249.0	186.3	149.1	120.3	101.6	93.2	91.5
47.5°	6530.6	4094.6	511.6	316.8	213.5	159.2	125.4	99.9	81.3	74.5	72.8
50°	7730.0	4580.8	452.3	277.8	181.3	135.5	103.3	79.6	64.4	57.6	57.6
52.5°	9380.0	5641.2	410.0	233.8	152.5	115.2	84.7	64.4	50.8	45.7	44.0
55°	11104.6	6759.3	387.9	196.5	127.1	94.9	67.8	50.8	39.0	33.9	32.2
57.5°	12763.1	7636.9	362.5	159.2	101.6	72.8	52.5	39.0	27.1	23.7	22.0
60°	14353.8	8346.7	308.3	127.1	79.6	52.5	39.0	27.1	18.6	15.2	15.2
62.5°	15776.8	8760.0	242.3	101.6	61.0	37.3	25.4	20.3	13.6	10.2	10.2
65°	15942.9	8223.0	183.0	77.9	44.0	23.7	15.2	15.2	10.2	6.8	6.8
66°	15609.1	7767.3	160.9	71.2	39.0	20.3	13.6	11.9	8.5	5.1	5.1
67.5°	14863.7	6989.7	138.9	61.0	32.2	15.2	10.2	10.2	6.8	3.4	3.4
70°	12842.7	5709.0	110.1	45.7	23.7	11.9	6.8	6.8	5.1	3.4	3.4
72.5°	9788.3	4262.3	89.8	33.9	16.9	8.5	5.1	5.1	5.1	3.4	3.4
75°	5903.8	2295.5	69.5	25.4	15.2	6.8	3.4	5.1	6.8	5.1	3.4
77.5°	2175.2	781.0	54.2	20.3	11.9	6.8	3.4	3.4	6.8	5.1	5.1
80°	533.6	203.3	39.0	16.9	11.9	6.8	3.4	3.4	6.8	6.8	6.8
82.5°	247.3	86.4	27.1	15.2	11.9	6.8	3.4	3.4	5.1	6.8	6.8
85°	142.3	40.7	22.0	16.9	11.9	6.8	3.4	3.4	5.1	6.8	6.8
87.5°	57.6	20.3	20.3	16.9	13.6	8.5	3.4	3.4	3.4	5.1	5.1
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)