

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: P453589

Luminaire Tested: **GALN-SA4C-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453589
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-SA4C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16733 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

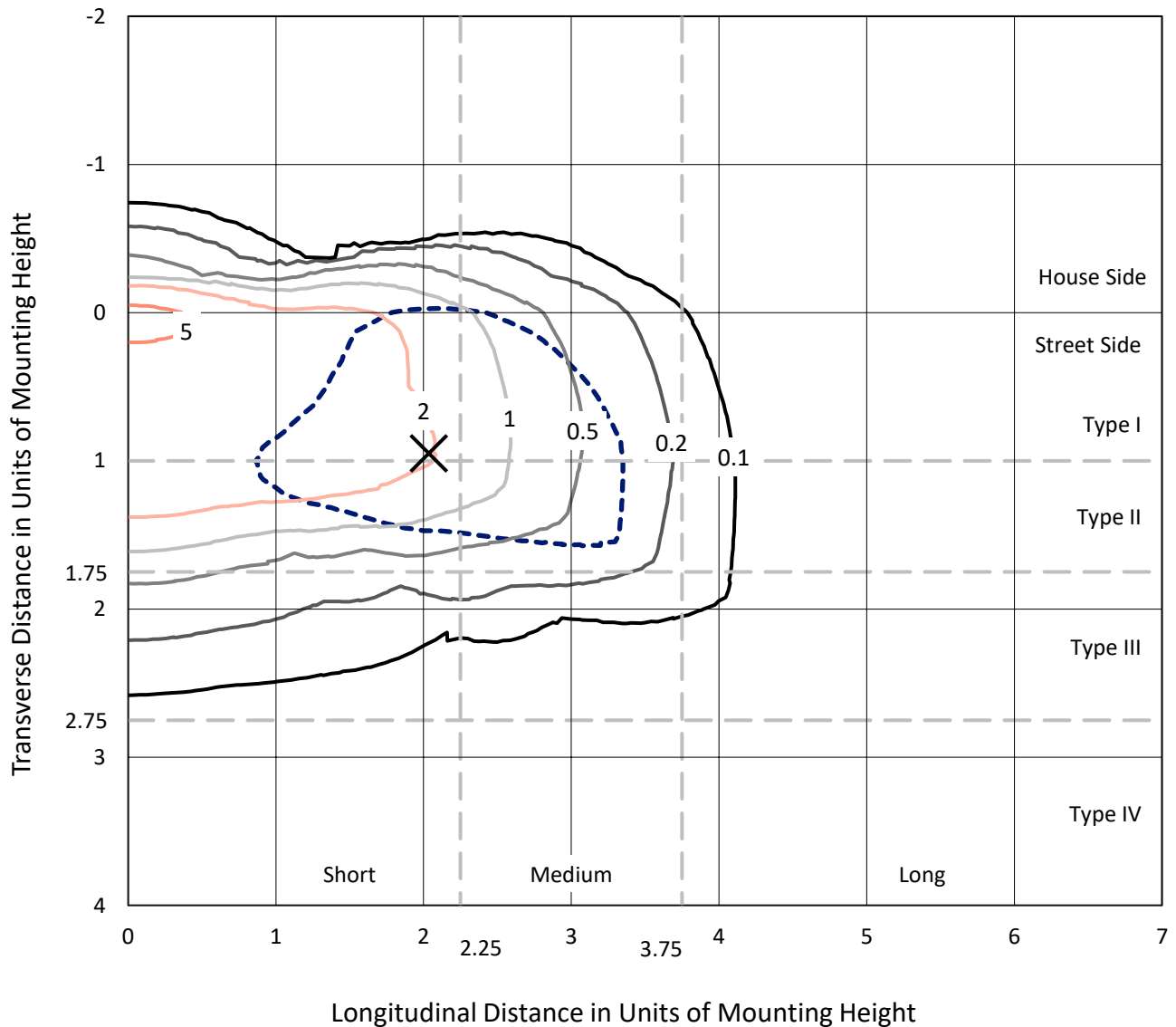
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

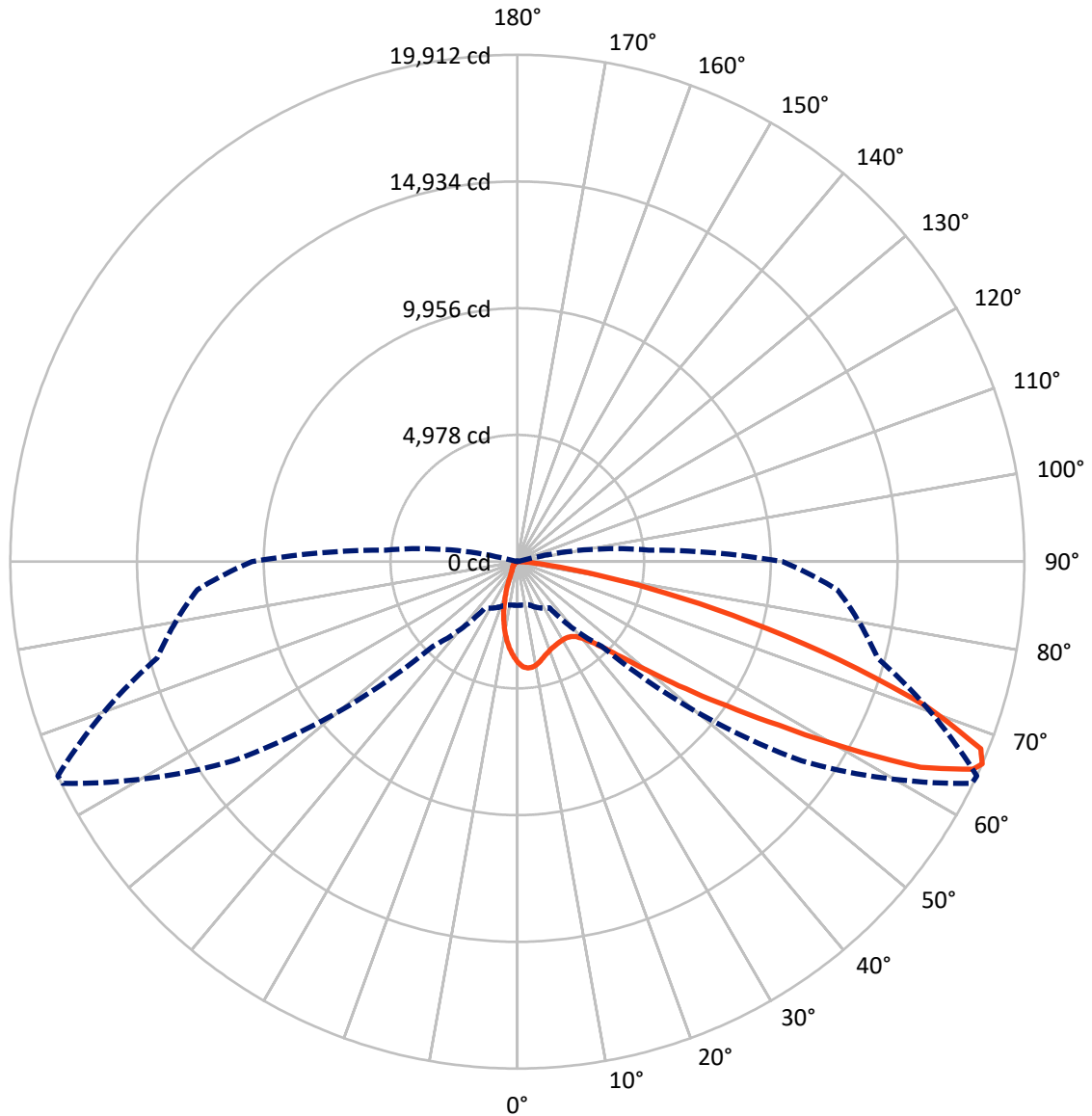
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1730.4	0.0	1730.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15002.6	0.0	15002.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	16733.0	0.0	16733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	1.9
10°-20°	707.1	4.2
20°-30°	1012.9	6.1
30°-40°	1479.4	8.8
40°-50°	2480.7	14.8
50°-60°	4140.0	24.7
60°-70°	4394.5	26.3
70°-80°	1990.2	11.9
80°-90°	203.6	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°	16733.0	100.0
0°-180°	16733.0	100.0

Coefficient of Utilization



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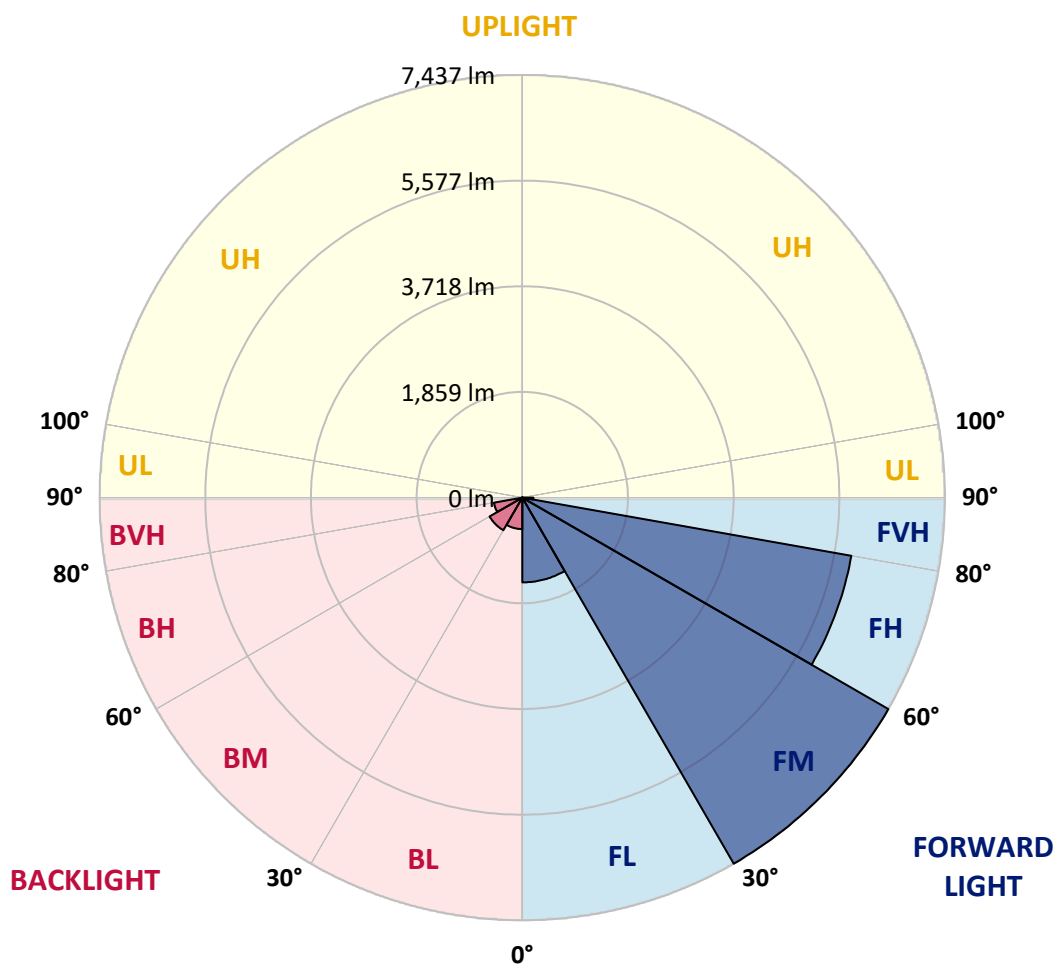
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.0	8.9			
FM (30°-60°)	7436.5	44.4			
FH (60°-80°)	5877.9	35.1			G3/7500
FVH (80°-90°)	197.2	1.2			G2/225
BL (0°-30°)	553.5	3.3	B2/1000		
BM (30°-60°)	663.6	4.0	B1/1000		
BH (60°-80°)	506.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.5	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°	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0
2.5°	4181.6	4186.1	4191.8	4199.7	4205.3	4188.4	4164.7	4137.5	4131.9	4074.2	4004.2
5°	3957.8	3964.6	4014.3	4041.5	4102.5	4157.9	4192.9	4197.4	4195.2	4140.9	4029.0
7.5°	3639.1	3658.3	3706.9	3754.4	3868.6	3973.7	4098.0	4185.0	4190.7	4176.0	4037.0
10°	3380.3	3392.8	3417.6	3511.4	3606.4	3766.8	3940.9	4104.8	4118.3	4177.1	4030.2
12.5°	3178.0	3196.1	3226.6	3299.0	3413.1	3564.5	3762.3	3982.7	4011.0	4155.6	4011.0
15°	3036.8	3045.8	3076.3	3147.5	3258.3	3398.4	3598.4	3855.0	3879.9	4127.4	4007.6
17.5°	2970.1	2980.2	3001.7	3058.2	3149.8	3279.7	3475.3	3752.1	3783.8	4109.3	4020.0
20°	2988.2	2997.2	2998.3	3027.7	3089.9	3199.5	3384.8	3656.1	3696.8	4098.0	4040.3
22.5°	3091.0	3092.1	3078.6	3065.0	3086.5	3165.6	3329.5	3595.1	3636.9	4095.7	4064.1
25°	3244.7	3248.1	3225.5	3178.0	3135.1	3175.8	3317.0	3555.5	3592.8	4090.1	4078.8
27.5°	3457.2	3456.0	3449.3	3370.2	3248.1	3221.0	3327.2	3534.0	3565.7	4074.2	4084.4
30°	3754.4	3745.4	3730.7	3641.4	3454.9	3330.6	3370.2	3520.5	3549.9	4051.6	4069.7
32.5°	4047.1	4081.0	4078.8	3994.0	3761.2	3526.1	3459.4	3538.5	3560.0	4037.0	4048.3
35°	4388.4	4387.3	4474.3	4442.7	4170.3	3775.9	3612.0	3598.4	3615.4	4047.1	4038.1
37.5°	4704.9	4734.3	4869.9	4902.7	4654.0	4128.5	3827.9	3727.3	3732.9	4116.1	4062.9
40°	5099.3	5155.8	5358.1	5467.7	5248.5	4651.8	4146.6	3963.5	3964.6	4285.6	4156.7
42.5°	5607.9	5697.2	5885.9	6069.0	5951.5	5271.1	4624.6	4337.6	4335.3	4584.0	4371.5
45°	6226.1	6288.2	6503.0	6793.4	6718.8	6135.7	5320.8	4917.4	4888.0	5073.3	4752.3
47.5°	6759.5	6844.3	7062.4	7393.5	7732.6	7191.2	6152.6	5714.1	5694.9	5852.0	5405.6
50°	6992.3	7066.9	7296.3	7760.8	8582.5	8576.8	7391.3	6877.1	6844.3	6929.0	6416.0
52.5°	6736.9	6807.0	7038.7	7617.3	8982.6	10265.3	9186.0	8336.1	8296.5	8188.0	7623.0
55°	5862.2	5919.8	6262.2	6926.8	8828.9	11390.9	11658.8	10138.7	9985.0	9563.5	8989.3
57.5°	4667.6	4638.2	4850.7	5622.6	7927.0	11768.4	14197.1	12384.4	12109.7	10752.4	10145.5
60°	3234.5	3324.9	3410.8	3919.4	5960.5	11114.0	15776.0	15207.5	14845.9	11922.1	11253.1
62.5°	2377.9	2437.8	2494.3	2729.3	3747.6	8874.1	16055.1	18107.5	17786.5	13164.2	12309.8
65°	1880.6	1885.1	1907.7	2139.4	2469.4	5770.6	14713.6	19742.9	19660.4	14359.9	12738.1
66°	1713.3	1714.5	1749.5	1998.1	2216.3	4699.2	13638.8	19867.2	19912.4	14646.9	12612.6
67.5°	1497.5	1492.9	1543.8	1795.8	2018.5	3388.2	11715.3	19363.1	19631.0	14867.3	12161.7
70°	1160.7	1155.0	1217.2	1506.5	1859.1	2260.3	7786.8	16625.9	17057.6	14416.4	10760.3
72.5°	773.0	777.6	883.8	1188.9	1774.4	1990.2	4684.5	12647.7	13258.0	11905.2	8464.9
75°	450.9	458.8	579.8	883.8	1540.4	1897.5	2651.4	9018.7	9408.6	8220.8	5273.4
77.5°	236.2	239.6	324.4	583.2	1181.0	1761.9	1766.4	5761.6	5944.7	3995.1	2087.4
80°	125.4	122.1	174.0	351.5	812.6	1547.2	1433.0	3050.3	3171.2	1186.7	527.8
82.5°	47.5	52.0	92.7	230.6	480.3	1111.0	1234.1	1348.3	1306.5	261.1	221.5
85°	9.0	11.3	39.6	136.8	241.9	464.5	909.8	661.1	612.5	98.3	127.7
87.5°	1.1	2.3	11.3	32.8	35.0	157.1	269.0	183.1	158.2	36.2	53.1
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°	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0	3968.0
2.5°	3970.3	3939.8	3838.0	3737.5	3634.6	3541.9	3478.6	3375.8	3349.8	3312.5	3291.0
5°	3962.4	3891.2	3695.6	3482.0	3283.1	3068.4	2904.5	2746.3	2661.5	2618.6	2602.8
7.5°	3939.8	3826.7	3521.6	3187.1	2868.4	2547.4	2268.2	2055.8	1919.0	1825.2	1761.9
10°	3894.6	3738.6	3319.3	2859.3	2377.9	1954.1	1600.3	1331.3	1123.4	1057.8	1060.1
12.5°	3848.2	3640.3	3093.3	2495.4	1898.7	1364.1	988.9	776.4	677.0	644.2	637.4
15°	3805.3	3546.5	2871.8	2142.8	1413.8	883.8	637.4	562.8	535.7	530.0	528.9
17.5°	3782.7	3459.4	2635.5	1739.3	986.6	600.1	510.8	490.5	482.6	476.9	474.7
20°	3763.5	3383.7	2409.5	1361.8	674.7	491.6	457.7	438.5	424.9	419.3	415.9
22.5°	3749.9	3305.7	2175.6	1054.4	516.5	436.2	405.7	380.9	361.7	354.9	350.4
25°	3729.5	3219.8	1939.4	770.8	435.1	387.6	352.6	323.2	298.4	285.9	283.7
27.5°	3700.2	3122.6	1680.6	570.7	388.8	344.7	301.8	265.6	240.7	227.2	228.3
30°	3652.7	3020.9	1421.7	453.2	351.5	300.6	254.3	219.3	195.5	185.3	184.2
32.5°	3596.2	2897.7	1184.4	388.8	317.6	261.1	212.5	182.0	163.9	156.0	154.8
35°	3543.1	2773.4	942.6	349.2	282.5	224.9	178.6	152.6	139.0	132.2	133.4
37.5°	3513.7	2662.7	734.6	317.6	254.3	193.3	153.7	131.1	118.7	113.0	111.9
40°	3532.9	2572.3	584.3	289.3	222.6	166.1	132.2	113.0	100.6	92.7	92.7
42.5°	3623.3	2532.7	471.3	262.2	193.3	143.5	115.3	97.2	83.6	75.7	76.9
45°	3899.1	2574.5	394.4	237.3	166.1	124.3	99.5	80.2	67.8	62.2	61.0
47.5°	4356.8	2731.6	341.3	211.3	142.4	106.2	83.6	66.7	54.2	49.7	48.6
50°	5156.9	3056.0	301.8	185.3	120.9	90.4	68.9	53.1	42.9	38.4	38.4
52.5°	6257.7	3763.5	273.5	156.0	101.7	76.9	56.5	42.9	33.9	30.5	29.4
55°	7408.2	4509.4	258.8	131.1	84.8	63.3	45.2	33.9	26.0	22.6	21.5
57.5°	8514.7	5094.8	241.9	106.2	67.8	48.6	35.0	26.0	18.1	15.8	14.7
60°	9575.9	5568.3	205.7	84.8	53.1	35.0	26.0	18.1	12.4	10.2	10.2
62.5°	10525.2	5844.1	161.6	67.8	40.7	24.9	17.0	13.6	9.0	6.8	6.8
65°	10636.0	5485.8	122.1	52.0	29.4	15.8	10.2	10.2	6.8	4.5	4.5
66°	10413.3	5181.8	107.4	47.5	26.0	13.6	9.0	7.9	5.7	3.4	3.4
67.5°	9916.1	4663.1	92.7	40.7	21.5	10.2	6.8	6.8	4.5	2.3	2.3
70°	8567.8	3808.7	73.5	30.5	15.8	7.9	4.5	4.5	3.4	2.3	2.3
72.5°	6530.1	2843.5	59.9	22.6	11.3	5.7	3.4	3.4	3.4	2.3	2.3
75°	3938.6	1531.4	46.3	17.0	10.2	4.5	2.3	3.4	4.5	3.4	2.3
77.5°	1451.1	521.0	36.2	13.6	7.9	4.5	2.3	2.3	4.5	3.4	3.4
80°	356.0	135.6	26.0	11.3	7.9	4.5	2.3	2.3	4.5	4.5	4.5
82.5°	165.0	57.6	18.1	10.2	7.9	4.5	2.3	2.3	3.4	4.5	4.5
85°	94.9	27.1	14.7	11.3	7.9	4.5	2.3	2.3	3.4	4.5	4.5
87.5°	38.4	13.6	13.6	11.3	9.0	5.7	2.3	2.3	2.3	3.4	3.4
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)