

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: P529947

Luminaire Tested: **GALN-SA5A-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9827 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

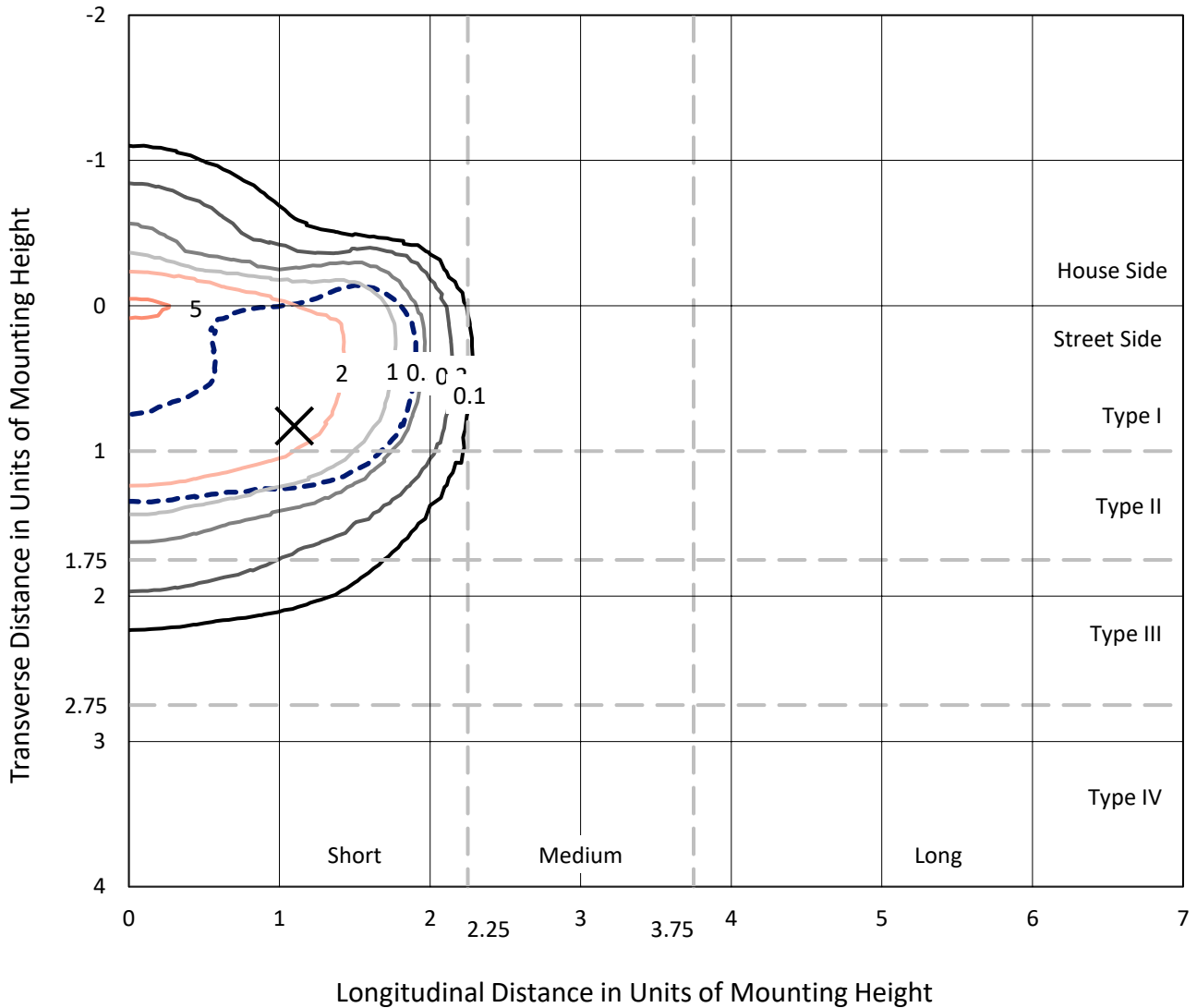
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

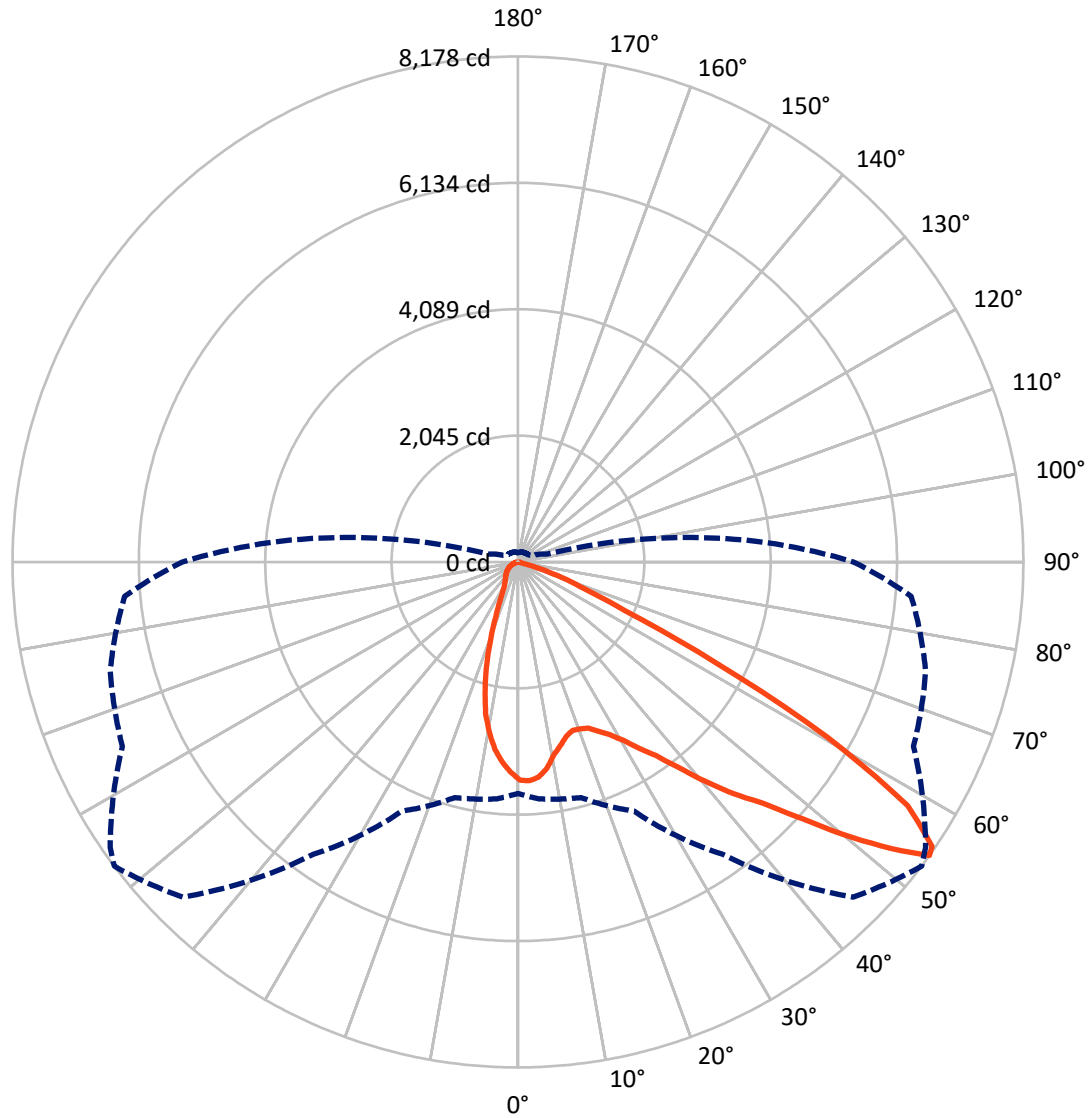
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1625.9	0.0	1625.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8201.1	0.0	8201.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	9827.0	0.0	9827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	3.1
10°-20°	694.3	7.1
20°-30°	986.8	10.0
30°-40°	1522.8	15.5
40°-50°	2387.7	24.3
50°-60°	2773.6	28.2
60°-70°	1048.0	10.7
70°-80°	99.7	1.0
80°-90°	11.2	0.1
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°	9827.0	100.0
0°-180°	9827.0	100.0

Coefficient of Utilization

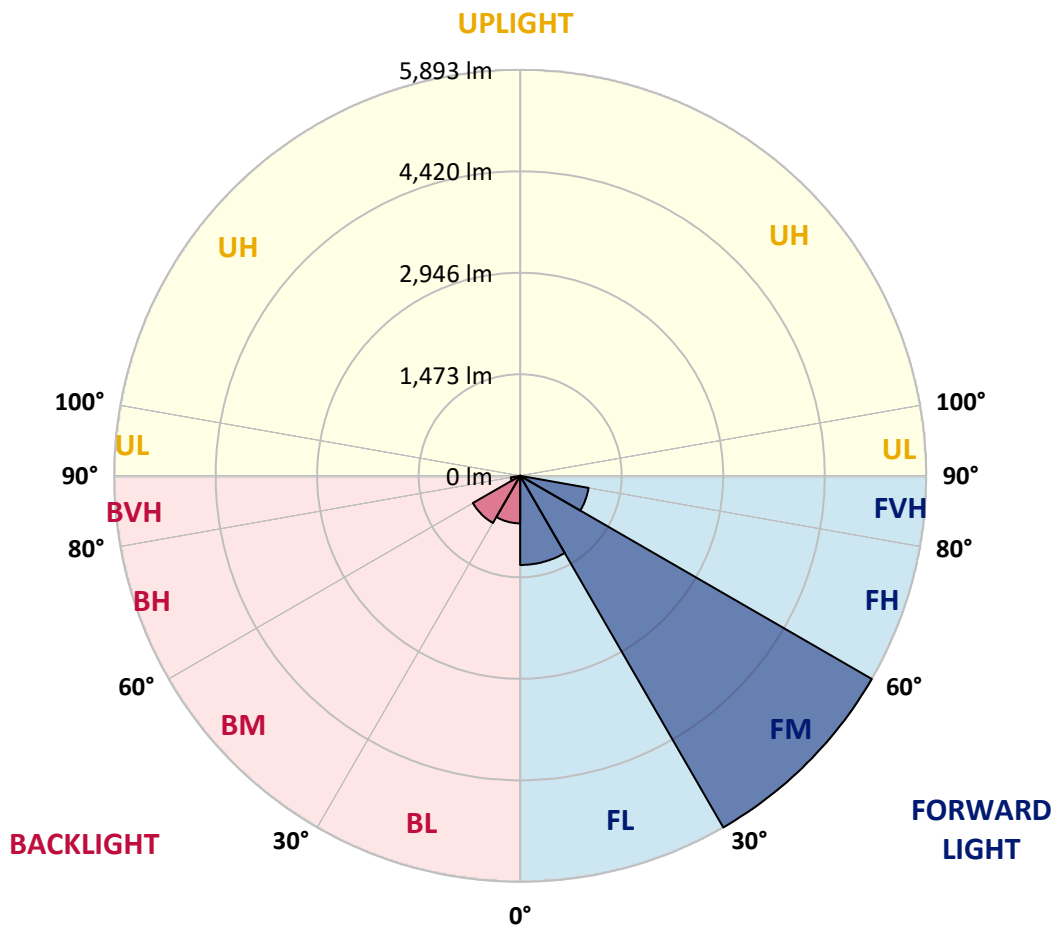


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.0	13.2			
FM (30°-60°)	5892.9	60.0			
FH (60°-80°)	1008.4	10.3			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	690.0	7.0	B2/1000		
BM (30°-60°)	791.2	8.1	B1/1000		
BH (60°-80°)	139.3	1.4	B1/500		G1/500
BVH (80°-90°)	5.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7
2.5°	3511.4	3480.3	3511.4	3515.0	3537.0	3557.2	3544.3	3573.6	3557.2	3538.8	3533.4
5°	3227.6	3269.7	3271.6	3337.5	3322.8	3443.6	3496.7	3482.1	3571.8	3566.3	3553.5
7.5°	2973.1	2956.7	2978.6	3055.5	3152.6	3291.7	3368.6	3366.8	3494.9	3586.4	3577.3
10°	2737.0	2735.1	2780.9	2841.3	2923.7	3070.2	3176.4	3229.4	3429.0	3568.1	3588.3
12.5°	2577.7	2570.4	2619.8	2669.2	2799.2	2912.7	3048.2	3073.8	3302.7	3504.1	3537.0
15°	2473.3	2489.8	2493.5	2588.7	2671.1	2821.2	2927.4	2980.5	3244.1	3452.8	3579.1
17.5°	2455.0	2477.0	2478.8	2557.6	2645.4	2771.8	2865.1	2936.5	3194.7	3478.4	3581.0
20°	2491.7	2478.8	2489.8	2539.3	2625.3	2746.1	2881.6	2905.4	3178.2	3491.2	3601.1
22.5°	2596.0	2592.3	2564.9	2605.2	2665.6	2791.9	2920.1	2956.7	3225.8	3557.2	3617.6
25°	2711.3	2731.5	2705.9	2700.4	2742.5	2867.0	3037.2	3084.8	3385.1	3676.2	3668.8
27.5°	2927.4	2907.2	2907.2	2881.6	2870.6	2931.0	3163.5	3242.3	3562.6	3829.9	3727.4
30°	3134.2	3156.2	3139.7	3148.9	3075.7	3070.2	3343.0	3440.0	3877.5	4064.3	3851.9
32.5°	3462.0	3432.7	3460.1	3436.3	3339.3	3240.4	3586.4	3687.1	4258.3	4333.4	4038.6
35°	3734.7	3721.9	3839.1	3835.4	3678.0	3581.0	3844.6	3994.7	4523.8	4655.6	4258.3
37.5°	4122.9	4099.1	4232.7	4296.8	4155.8	4011.2	4214.4	4388.3	4770.9	4913.7	4483.5
40°	4522.0	4582.4	4761.8	4868.0	4717.9	4525.6	4666.6	4719.7	4935.7	5082.2	4637.3
42.5°	5027.2	5115.1	5298.2	5389.7	5376.9	5168.2	5126.1	5124.3	5054.7	5034.6	4750.8
45°	5512.4	5479.4	5761.4	5960.9	6122.0	6061.6	5569.2	5514.2	5243.3	5106.0	4780.1
47.5°	5724.8	5713.8	5906.0	6261.2	6810.4	6885.5	6213.6	6001.2	5561.8	5406.2	4939.4
50°	5450.2	5506.9	5697.3	6090.9	6933.1	7506.1	7004.5	6718.9	5933.5	5772.4	5316.5
52.5°	4553.1	4591.5	4772.8	5272.6	6515.7	7872.2	7762.4	7597.6	6616.3	6349.1	5973.7
54°	3743.9	3846.4	3945.3	4446.9	5772.4	7669.0	8178.0	8051.7	7061.2	6828.7	6387.5
55°	3260.6	3321.0	3392.4	3892.2	5257.9	7324.8	8130.4	8141.4	7359.6	6978.8	6665.8
57.5°	2381.8	2423.9	2350.7	2572.2	3610.2	5948.1	7436.5	7733.1	7762.4	7204.0	6836.0
60°	1819.8	1838.1	1755.7	1790.5	2244.5	4082.6	5752.2	6109.2	7002.6	6296.0	5790.7
62.5°	1411.5	1415.2	1413.3	1473.8	1547.0	2401.9	3597.4	3914.2	4827.7	4470.7	3932.5
65°	1039.9	1023.4	1052.7	1235.8	1320.0	1510.4	1894.8	2125.5	2623.5	2215.2	1583.6
67.5°	673.7	679.2	708.5	919.0	1131.4	1158.9	1166.2	1147.9	1149.7	633.4	397.3
70°	404.6	413.8	404.6	519.9	809.2	831.2	759.8	741.5	578.5	150.1	148.3
72.5°	239.8	227.0	203.2	223.4	336.9	402.8	362.5	360.7	227.0	87.9	87.9
75°	100.7	91.5	75.1	67.7	89.7	86.0	86.0	76.9	60.4	58.6	54.9
77.5°	20.1	20.1	14.6	16.5	22.0	25.6	31.1	31.1	36.6	36.6	34.8
80°	0.0	1.8	5.5	11.0	16.5	23.8	27.5	27.5	31.1	31.1	25.6
82.5°	0.0	1.8	5.5	11.0	14.6	22.0	27.5	27.5	31.1	33.0	27.5
85°	0.0	1.8	5.5	9.2	14.6	18.3	18.3	16.5	12.8	11.0	7.3
87.5°	0.0	0.0	1.8	3.7	1.8	3.7	3.7	3.7	3.7	3.7	3.7
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°	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7
2.5°	3546.2	3544.3	3500.4	3429.0	3412.5	3352.1	3344.8	3308.2	3328.3	3260.6	3253.2
5°	3516.9	3494.9	3441.8	3396.0	3262.4	3167.2	3092.1	3000.6	2947.5	2956.7	2921.9
7.5°	3559.0	3502.2	3408.9	3249.6	3086.7	2920.1	2830.3	2643.6	2575.9	2475.2	2460.5
10°	3515.0	3472.9	3328.3	3064.7	2839.5	2599.7	2389.1	2182.3	2024.8	1957.1	1942.4
12.5°	3511.4	3438.2	3196.5	2903.6	2577.7	2233.5	1927.8	1669.6	1514.0	1426.2	1406.0
15°	3454.6	3366.8	3048.2	2654.6	2204.2	1775.8	1442.6	1193.7	1074.7	1023.4	1038.0
17.5°	3460.1	3328.3	2899.9	2391.0	1836.2	1303.5	984.9	856.8	825.7	838.5	838.5
20°	3454.6	3242.3	2720.5	2087.1	1406.0	904.4	723.1	677.4	697.5	737.8	728.6
22.5°	3425.3	3202.0	2555.7	1766.7	1034.4	670.1	580.3	582.2	613.3	662.7	673.7
25°	3447.3	3112.3	2347.0	1442.6	754.3	534.6	503.5	516.3	549.2	585.8	593.2
27.5°	3430.8	3048.2	2129.2	1120.4	551.1	459.5	457.7	472.3	487.0	514.4	514.4
30°	3449.1	2989.6	1915.0	833.0	454.0	421.1	413.8	424.7	439.4	444.9	443.0
32.5°	3516.9	2945.7	1667.8	622.5	400.9	384.5	384.5	384.5	382.6	390.0	391.8
35°	3665.2	2953.0	1450.0	481.5	366.2	353.3	347.8	340.5	336.9	340.5	342.4
37.5°	3826.3	2949.3	1224.8	410.1	340.5	329.5	316.7	305.7	303.9	307.6	302.1
40°	3897.7	2984.1	1016.1	368.0	316.7	303.9	283.8	274.6	276.4	280.1	276.4
42.5°	3994.7	2995.1	880.6	335.0	294.8	274.6	261.8	250.8	249.0	254.5	252.6
45°	3992.9	2932.9	737.8	316.7	274.6	252.6	236.2	227.0	227.0	230.7	232.5
47.5°	4110.0	2923.7	633.4	300.2	260.0	238.0	217.9	210.5	208.7	208.7	205.0
50°	4382.8	3051.9	552.9	281.9	241.7	221.5	205.0	195.9	188.6	184.9	183.1
52.5°	4915.6	3451.0	490.6	260.0	221.5	205.0	190.4	183.1	173.9	164.8	162.9
54°	5431.8	3862.9	487.0	241.7	205.0	194.1	181.2	177.6	166.6	153.8	150.1
55°	5664.4	4102.7	499.8	227.0	194.1	186.7	175.8	172.1	161.1	146.5	144.6
57.5°	5856.6	4196.1	492.5	188.6	175.8	173.9	164.8	159.3	146.5	126.3	122.7
60°	4714.2	3172.7	353.3	166.6	161.1	157.4	150.1	146.5	130.0	108.0	106.2
62.5°	2978.6	1825.3	225.2	146.5	141.0	135.5	126.3	122.7	108.0	86.0	80.6
65°	1268.7	756.1	152.0	130.0	120.8	111.7	104.4	98.9	86.0	64.1	62.2
67.5°	329.5	269.1	126.3	113.5	100.7	87.9	82.4	73.2	58.6	43.9	42.1
70°	148.3	135.5	106.2	95.2	80.6	67.7	60.4	51.3	38.4	29.3	27.5
72.5°	87.9	86.0	80.6	71.4	60.4	51.3	43.9	34.8	25.6	16.5	16.5
75°	54.9	53.1	54.9	49.4	42.1	38.4	33.0	23.8	14.6	7.3	7.3
77.5°	33.0	33.0	33.0	31.1	29.3	29.3	23.8	14.6	7.3	1.8	1.8
80°	25.6	25.6	27.5	25.6	25.6	25.6	20.1	11.0	3.7	0.0	0.0
82.5°	25.6	27.5	31.1	29.3	25.6	22.0	18.3	11.0	3.7	0.0	0.0
85°	7.3	5.5	9.2	12.8	18.3	16.5	12.8	9.2	3.7	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8	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)