

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: P528855

Luminaire Tested: **GALN-SA4A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528855
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-SA4A-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 8831 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

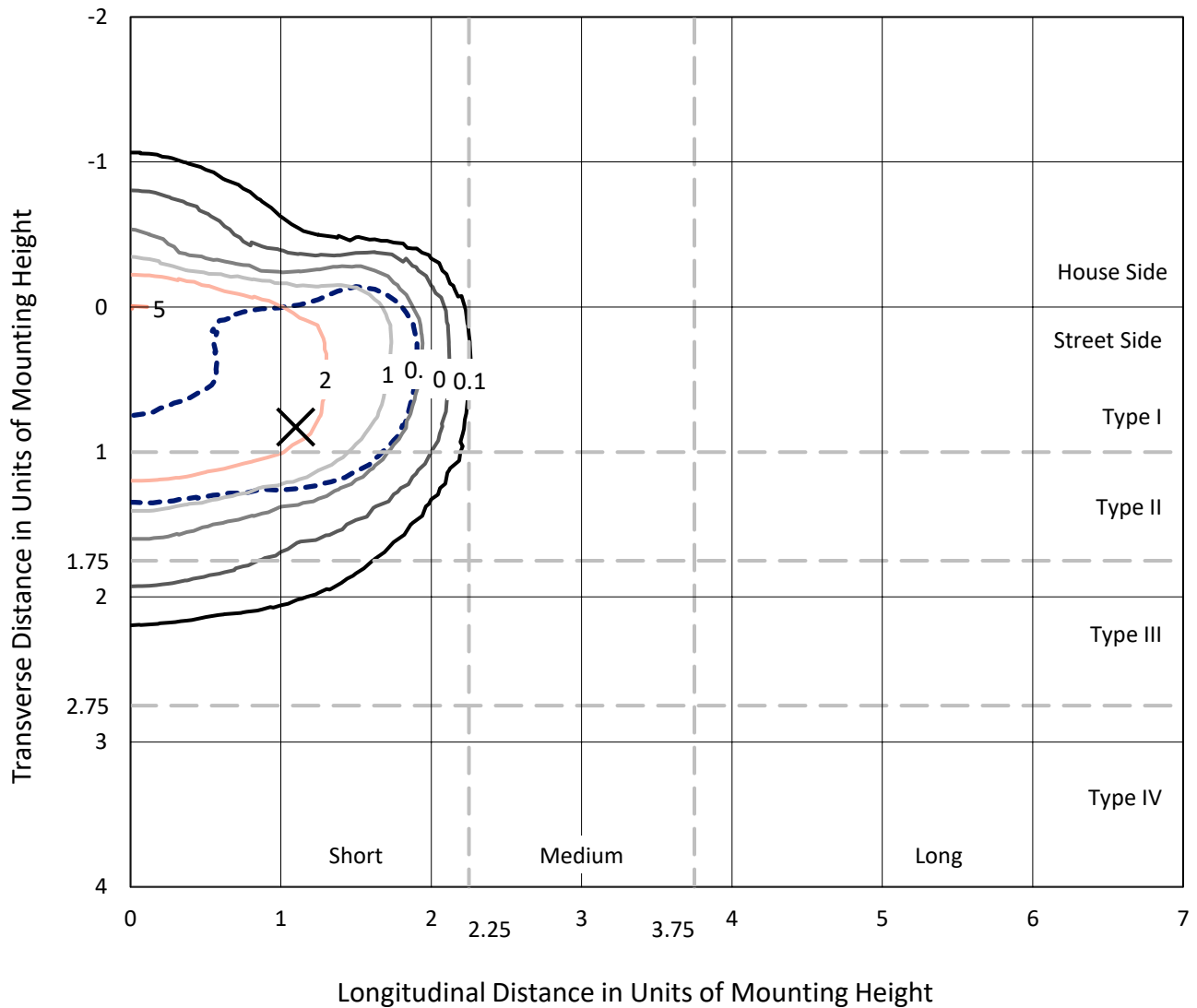
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

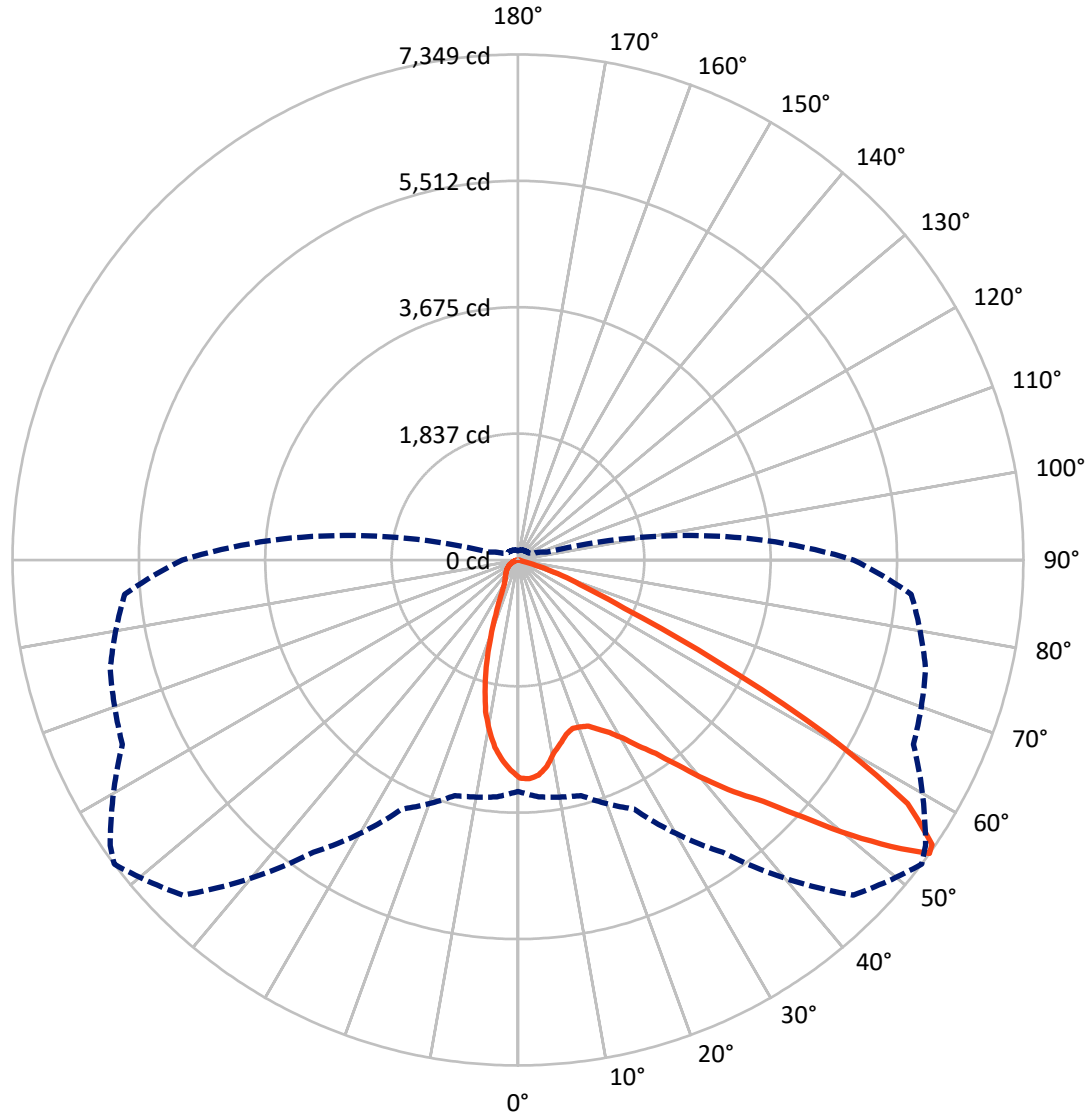
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1461.1	0.0	1461.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7369.9	0.0	7369.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	8831.0	0.0	8831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.1	3.1
10°-20°	623.9	7.1
20°-30°	886.8	10.0
30°-40°	1368.5	15.5
40°-50°	2145.7	24.3
50°-60°	2492.5	28.2
60°-70°	941.8	10.7
70°-80°	89.6	1.0
80°-90°	10.1	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°	8831.0	100.0
0°-180°	8831.0	100.0

Coefficient of Utilization

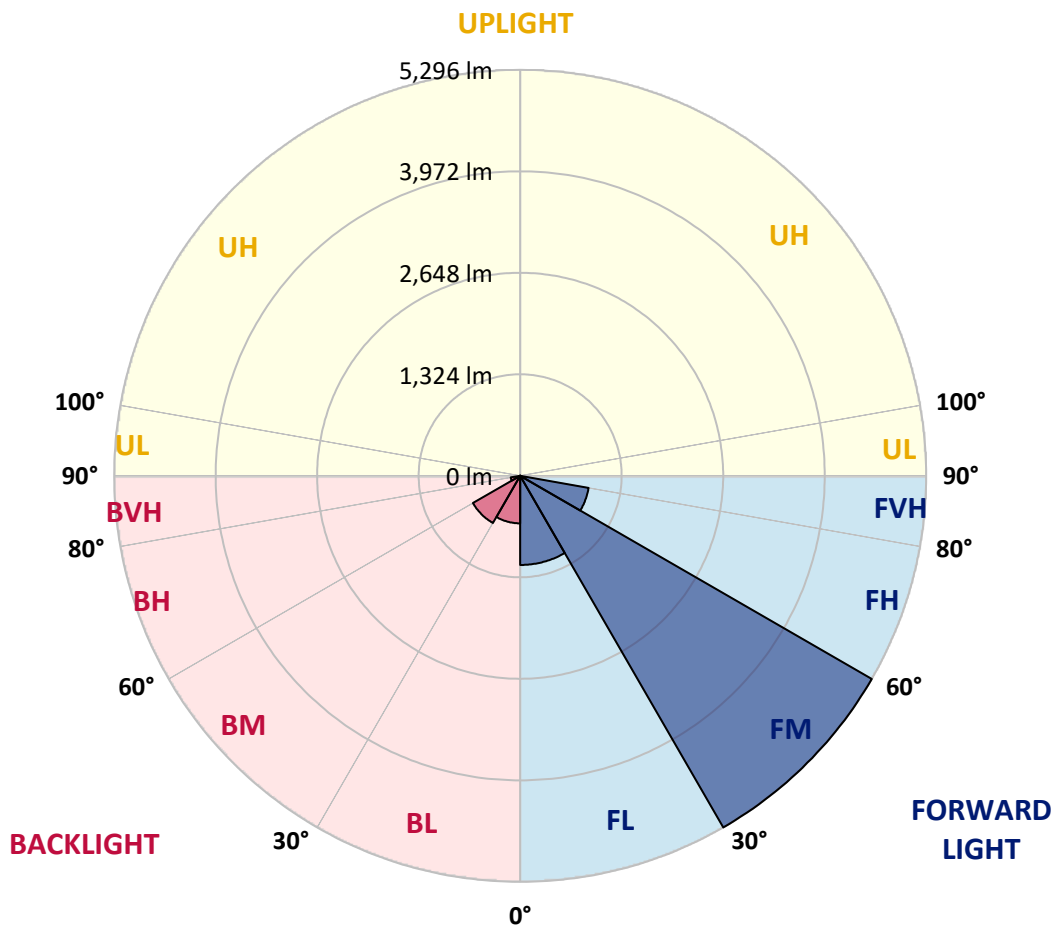


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1162.8	13.2			
FM (30°-60°)	5295.7	60.0			
FH (60°-80°)	906.2	10.3			G1/1800
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	620.0	7.0	B2/1000		
BM (30°-60°)	711.0	8.1	B1/1000		
BH (60°-80°)	125.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.9	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°	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9
2.5°	3155.5	3127.5	3155.5	3158.8	3178.5	3196.6	3185.1	3211.4	3196.6	3180.2	3175.2
5°	2900.5	2938.3	2940.0	2999.2	2986.0	3094.6	3142.3	3129.2	3209.8	3204.9	3193.3
7.5°	2671.8	2657.0	2676.7	2745.8	2833.0	2958.1	3027.2	3025.5	3140.7	3222.9	3214.7
10°	2459.6	2457.9	2499.1	2553.4	2627.4	2759.0	2854.4	2902.1	3081.5	3206.5	3224.6
12.5°	2316.4	2309.9	2354.3	2398.7	2515.5	2617.5	2739.3	2762.3	2967.9	3148.9	3178.5
15°	2222.7	2237.5	2240.8	2326.3	2400.3	2535.3	2630.7	2678.4	2915.3	3102.8	3216.4
17.5°	2206.2	2226.0	2227.6	2298.3	2377.3	2490.8	2574.7	2638.9	2870.9	3125.9	3218.0
20°	2239.1	2227.6	2237.5	2281.9	2359.2	2467.8	2589.5	2610.9	2856.1	3137.4	3236.1
22.5°	2332.9	2329.6	2304.9	2341.1	2395.4	2508.9	2624.1	2657.0	2898.8	3196.6	3250.9
25°	2436.5	2454.6	2431.6	2426.7	2464.5	2576.4	2729.4	2772.2	3042.0	3303.6	3297.0
27.5°	2630.7	2612.6	2612.6	2589.5	2579.7	2634.0	2842.9	2913.6	3201.6	3441.8	3349.6
30°	2816.6	2836.3	2821.5	2829.7	2763.9	2759.0	3004.1	3091.3	3484.5	3652.3	3461.5
32.5°	3111.1	3084.8	3109.4	3088.0	3000.8	2912.0	3222.9	3313.4	3826.7	3894.2	3629.3
35°	3356.2	3344.7	3450.0	3446.7	3305.2	3218.0	3454.9	3589.8	4065.3	4183.7	3826.7
37.5°	3705.0	3683.6	3803.7	3861.3	3734.6	3604.6	3787.3	3943.5	4287.4	4415.7	4029.1
40°	4063.6	4117.9	4279.2	4374.6	4239.7	4066.9	4193.6	4241.3	4435.5	4567.1	4167.3
42.5°	4517.7	4596.7	4761.2	4843.5	4832.0	4644.4	4606.6	4604.9	4542.4	4524.3	4269.3
45°	4953.7	4924.1	5177.4	5356.8	5501.6	5447.3	5004.7	4955.3	4711.9	4588.5	4295.6
47.5°	5144.5	5134.7	5307.4	5626.6	6120.1	6187.6	5583.8	5393.0	4998.1	4858.3	4438.8
50°	4897.8	4948.8	5119.9	5473.6	6230.4	6745.3	6294.5	6037.9	5332.1	5187.3	4777.7
52.5°	4091.6	4126.2	4289.0	4738.2	5855.3	7074.4	6975.6	6827.6	5945.8	5705.6	5368.3
54°	3364.4	3456.6	3545.4	3996.2	5187.3	6891.7	7349.1	7235.6	6345.5	6136.6	5740.1
55°	2930.1	2984.4	3048.6	3497.7	4725.0	6582.4	7306.3	7316.2	6613.7	6271.5	5990.2
57.5°	2140.4	2178.2	2112.4	2311.5	3244.3	5345.3	6682.8	6949.3	6975.6	6473.9	6143.2
60°	1635.3	1651.8	1577.7	1609.0	2017.0	3668.8	5169.2	5490.0	6292.9	5657.8	5203.8
62.5°	1268.4	1271.7	1270.1	1324.4	1390.2	2158.5	3232.8	3517.4	4338.4	4017.6	3533.9
65°	934.5	919.7	946.0	1110.5	1186.2	1357.3	1702.8	1910.1	2357.6	1990.7	1423.1
67.5°	605.4	610.4	636.7	825.9	1016.7	1041.4	1048.0	1031.5	1033.2	569.2	357.0
70°	363.6	371.8	363.6	467.2	727.2	746.9	682.8	666.3	519.9	134.9	133.3
72.5°	215.5	204.0	182.6	200.7	302.7	361.9	325.7	324.1	204.0	79.0	79.0
75°	90.5	82.3	67.5	60.9	80.6	77.3	77.3	69.1	54.3	52.6	49.4
77.5°	18.1	18.1	13.2	14.8	19.7	23.0	28.0	28.0	32.9	32.9	31.3
80°	0.0	1.6	4.9	9.9	14.8	21.4	24.7	24.7	28.0	28.0	23.0
82.5°	0.0	1.6	4.9	9.9	13.2	19.7	24.7	24.7	28.0	29.6	24.7
85°	0.0	1.6	4.9	8.2	13.2	16.5	16.5	14.8	11.5	9.9	6.6
87.5°	0.0	0.0	1.6	3.3	1.6	3.3	3.3	3.3	3.3	3.3	3.3
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°	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9
2.5°	3186.8	3185.1	3145.6	3081.5	3066.7	3012.4	3005.8	2972.9	2991.0	2930.1	2923.5
5°	3160.4	3140.7	3093.0	3051.8	2931.7	2846.2	2778.7	2696.5	2648.8	2657.0	2625.7
7.5°	3198.3	3147.3	3063.4	2920.2	2773.8	2624.1	2543.5	2375.7	2314.8	2224.3	2211.1
10°	3158.8	3120.9	2991.0	2754.1	2551.7	2336.2	2147.0	1961.1	1819.6	1758.7	1745.6
12.5°	3155.5	3089.7	2872.5	2609.3	2316.4	2007.1	1732.4	1500.4	1360.6	1281.6	1263.5
15°	3104.5	3025.5	2739.3	2385.5	1980.8	1595.8	1296.4	1072.7	965.7	919.7	932.8
17.5°	3109.4	2991.0	2606.0	2148.6	1650.1	1171.4	885.1	770.0	742.0	753.5	753.5
20°	3104.5	2913.6	2444.8	1875.5	1263.5	812.7	649.9	608.7	626.8	663.0	654.8
22.5°	3078.2	2877.5	2296.7	1587.6	929.5	602.1	521.5	523.2	551.1	595.6	605.4
25°	3097.9	2796.8	2109.1	1296.4	677.8	480.4	452.4	463.9	493.6	526.5	533.0
27.5°	3083.1	2739.3	1913.4	1006.9	495.2	412.9	411.3	424.5	437.6	462.3	462.3
30°	3099.6	2686.6	1720.9	748.6	408.0	378.4	371.8	381.7	394.8	399.8	398.1
32.5°	3160.4	2647.1	1498.8	559.4	360.3	345.5	345.5	345.5	343.8	350.4	352.1
35°	3293.7	2653.7	1303.0	432.7	329.0	317.5	312.6	306.0	302.7	306.0	307.7
37.5°	3438.5	2650.4	1100.6	368.5	306.0	296.1	284.6	274.7	273.1	276.4	271.5
40°	3502.6	2681.7	913.1	330.7	284.6	273.1	255.0	246.8	248.4	251.7	248.4
42.5°	3589.8	2691.5	791.3	301.1	264.9	246.8	235.3	225.4	223.7	228.7	227.0
45°	3588.2	2635.6	663.0	284.6	246.8	227.0	212.2	204.0	204.0	207.3	208.9
47.5°	3693.5	2627.4	569.2	269.8	233.6	213.9	195.8	189.2	187.6	187.6	184.3
50°	3938.6	2742.5	496.9	253.4	217.2	199.1	184.3	176.0	169.5	166.2	164.5
52.5°	4417.4	3101.2	440.9	233.6	199.1	184.3	171.1	164.5	156.3	148.1	146.4
54°	4881.3	3471.4	437.6	217.2	184.3	174.4	162.9	159.6	149.7	138.2	134.9
55°	5090.2	3686.9	449.1	204.0	174.4	167.8	157.9	154.6	144.8	131.6	130.0
57.5°	5263.0	3770.8	442.6	169.5	157.9	156.3	148.1	143.1	131.6	113.5	110.2
60°	4236.4	2851.1	317.5	149.7	144.8	141.5	134.9	131.6	116.8	97.1	95.4
62.5°	2676.7	1640.3	202.4	131.6	126.7	121.7	113.5	110.2	97.1	77.3	72.4
65°	1140.1	679.5	136.6	116.8	108.6	100.4	93.8	88.8	77.3	57.6	55.9
67.5°	296.1	241.8	113.5	102.0	90.5	79.0	74.0	65.8	52.6	39.5	37.8
70°	133.3	121.7	95.4	85.6	72.4	60.9	54.3	46.1	34.5	26.3	24.7
72.5°	79.0	77.3	72.4	64.2	54.3	46.1	39.5	31.3	23.0	14.8	14.8
75°	49.4	47.7	49.4	44.4	37.8	34.5	29.6	21.4	13.2	6.6	6.6
77.5°	29.6	29.6	29.6	28.0	26.3	26.3	21.4	13.2	6.6	1.6	1.6
80°	23.0	23.0	24.7	23.0	23.0	23.0	18.1	9.9	3.3	0.0	0.0
82.5°	23.0	24.7	28.0	26.3	23.0	19.7	16.5	9.9	3.3	0.0	0.0
85°	6.6	4.9	8.2	11.5	16.5	14.8	11.5	8.2	3.3	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	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)