

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: P458867

Luminaire Tested: **GALN-SA4A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458867
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-SA4A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 13792 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

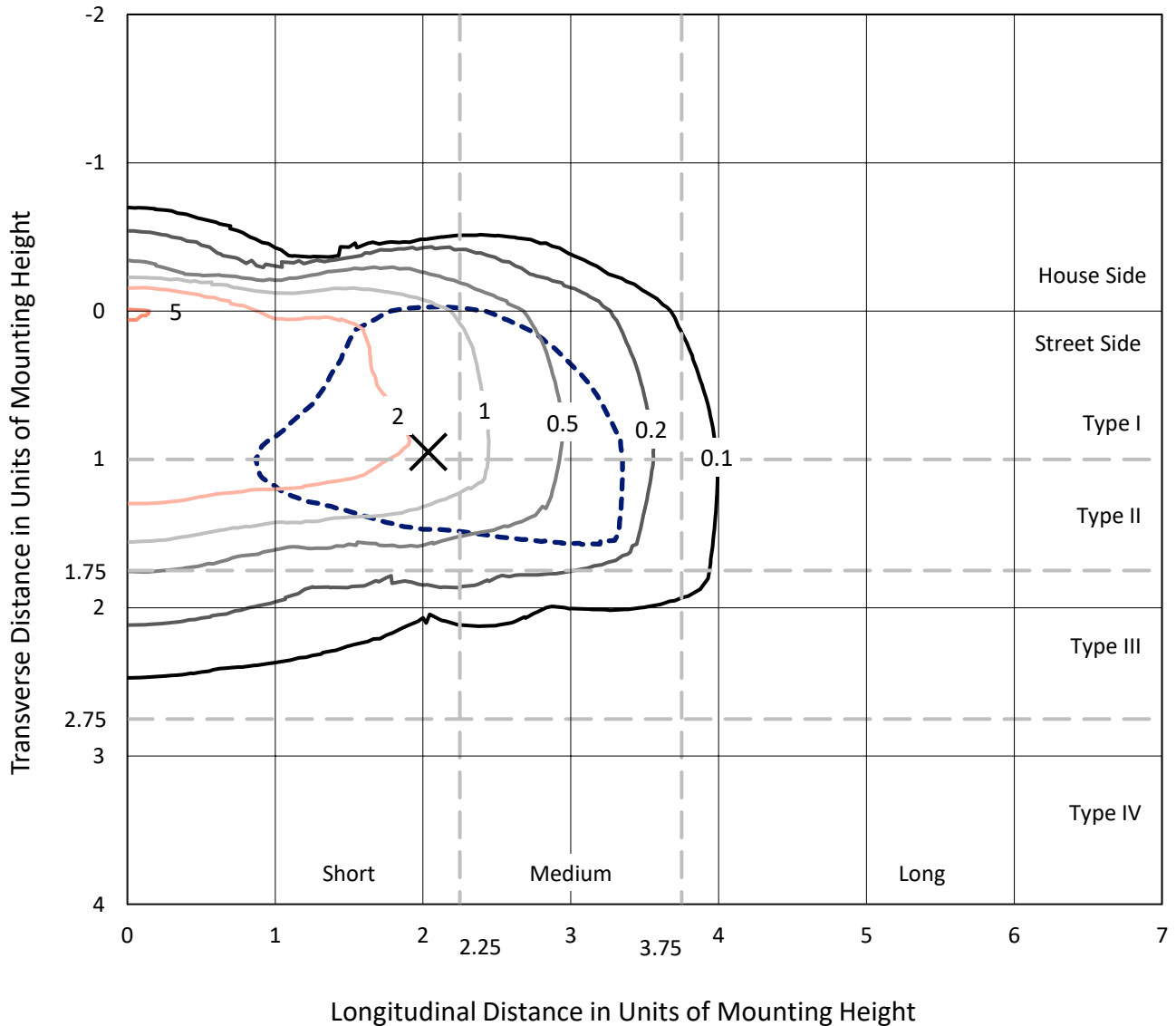
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

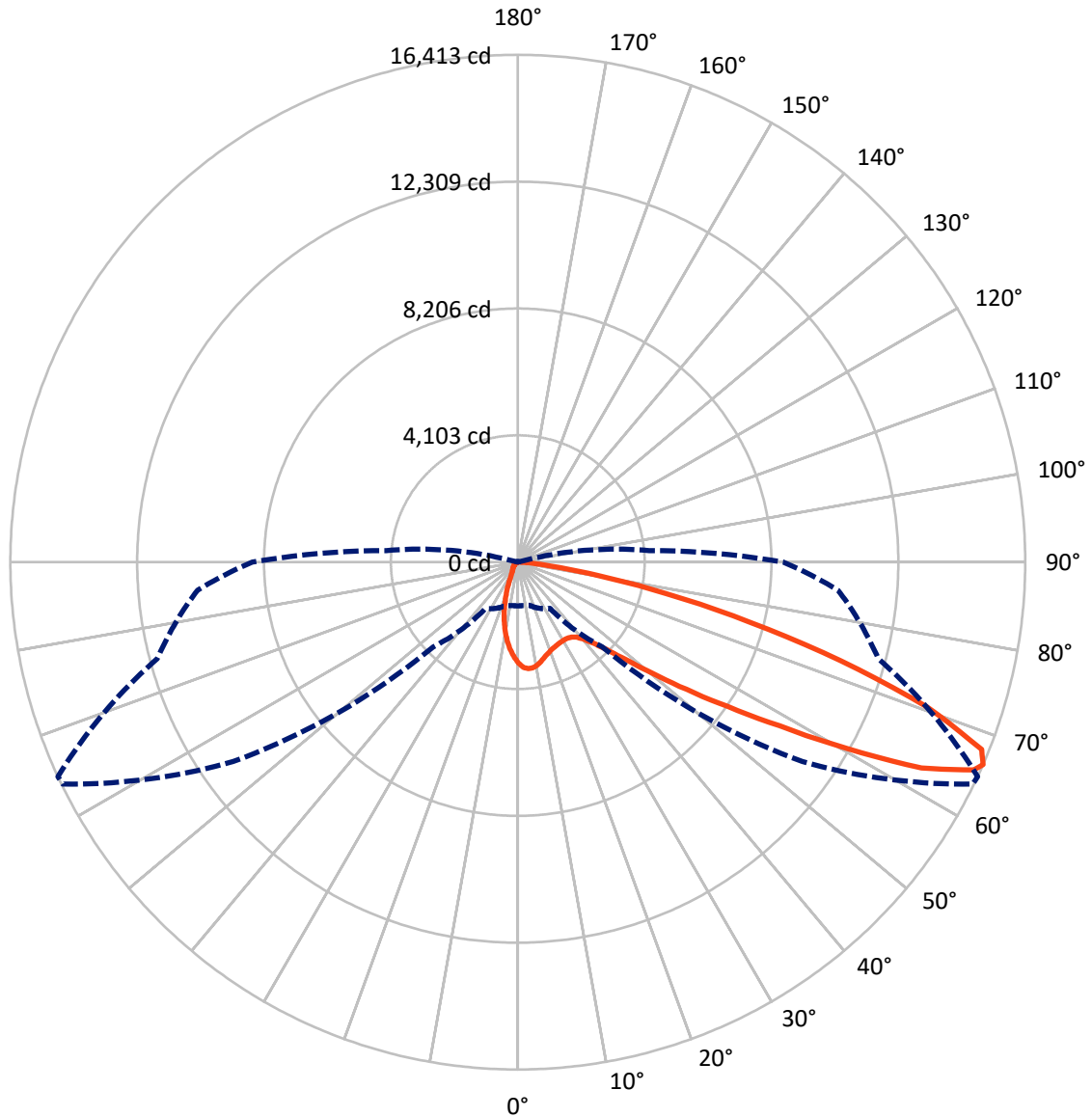
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1426.3	0.0	1426.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12365.7	0.0	12365.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	13792.0	0.0	13792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	1.9
10°-20°	582.8	4.2
20°-30°	834.9	6.1
30°-40°	1219.4	8.8
40°-50°	2044.7	14.8
50°-60°	3412.3	24.7
60°-70°	3622.1	26.3
70°-80°	1640.4	11.9
80°-90°	167.9	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°	13792.0	100.0
0°-180°	13792.0	100.0

Coefficient of Utilization

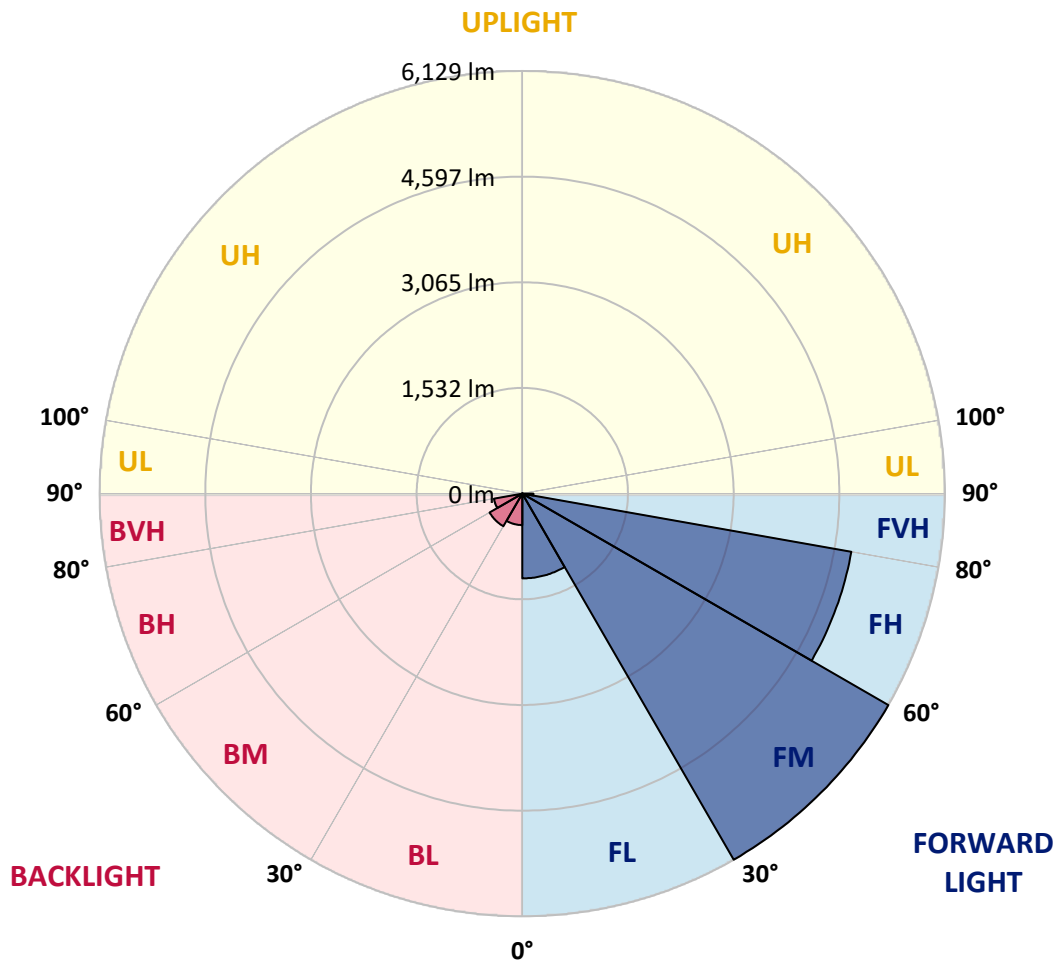


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.9	8.9			
FM (30°-60°)	6129.5	44.4			
FH (60°-80°)	4844.8	35.1			G2/5000
FVH (80°-90°)	162.5	1.2			G2/225
BL (0°-30°)	456.3	3.3	B1/500		
BM (30°-60°)	547.0	4.0	B1/1000		
BH (60°-80°)	417.7	3.0	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6
2.5°	3446.7	3450.4	3455.0	3461.6	3466.2	3452.2	3432.7	3410.3	3405.7	3358.2	3300.4
5°	3262.2	3267.8	3308.8	3331.1	3381.4	3427.1	3456.0	3459.7	3457.8	3413.1	3320.9
7.5°	2999.5	3015.4	3055.4	3094.5	3188.6	3275.2	3377.7	3449.4	3454.1	3442.0	3327.4
10°	2786.2	2796.4	2816.9	2894.3	2972.5	3104.8	3248.2	3383.3	3394.5	3442.9	3321.8
12.5°	2619.5	2634.4	2659.5	2719.1	2813.2	2938.0	3101.1	3282.7	3306.0	3425.2	3306.0
15°	2503.0	2510.5	2535.6	2594.3	2685.6	2801.1	2966.0	3177.4	3197.9	3401.9	3303.2
17.5°	2448.1	2456.4	2474.1	2520.7	2596.2	2703.3	2864.4	3092.7	3118.8	3387.0	3313.4
20°	2463.0	2470.4	2471.3	2495.6	2546.8	2637.2	2789.9	3013.5	3047.0	3377.7	3330.2
22.5°	2547.7	2548.7	2537.5	2526.3	2544.0	2609.2	2744.3	2963.2	2997.7	3375.9	3349.8
25°	2674.4	2677.2	2658.6	2619.5	2584.1	2617.6	2734.0	2930.6	2961.3	3371.2	3361.9
27.5°	2849.5	2848.6	2843.0	2777.8	2677.2	2654.9	2742.4	2912.9	2939.0	3358.2	3366.5
30°	3094.5	3087.1	3075.0	3001.4	2847.7	2745.2	2777.8	2901.7	2925.9	3339.5	3354.4
32.5°	3335.8	3363.7	3361.9	3292.0	3100.1	2906.4	2851.4	2916.6	2934.3	3327.4	3336.7
35°	3617.1	3616.2	3687.9	3661.8	3437.3	3112.2	2977.2	2966.0	2980.0	3335.8	3328.3
37.5°	3877.9	3902.2	4014.0	4041.0	3836.0	3402.9	3155.1	3072.2	3076.8	3392.6	3348.8
40°	4203.1	4249.6	4416.4	4506.7	4326.0	3834.2	3417.8	3266.9	3267.8	3532.4	3426.2
42.5°	4622.2	4695.8	4851.4	5002.3	4905.4	4344.6	3811.8	3575.2	3573.3	3778.3	3603.1
45°	5131.8	5183.0	5360.0	5599.4	5537.9	5057.3	4385.6	4053.1	4028.9	4181.6	3917.1
47.5°	5571.5	5641.3	5821.1	6094.1	6373.5	5927.3	5071.2	4709.8	4694.0	4823.4	4455.5
50°	5763.4	5824.8	6013.9	6396.8	7074.0	7069.4	6092.2	5668.3	5641.3	5711.2	5288.3
52.5°	5552.8	5610.6	5801.6	6278.5	7403.8	8461.1	7571.5	6870.9	6838.3	6748.9	6283.2
55°	4831.8	4879.3	5161.6	5709.3	7277.1	9388.9	9609.6	8356.7	8230.0	7882.6	7409.4
57.5°	3847.2	3823.0	3998.1	4634.3	6533.7	9700.0	11701.8	10207.7	9981.3	8862.5	8362.3
60°	2666.0	2740.6	2811.3	3230.5	4912.9	9160.6	13003.2	12534.6	12236.5	9826.7	9275.2
62.5°	1959.9	2009.3	2055.9	2249.6	3088.9	7314.4	13233.3	14924.9	14660.4	10850.4	10146.2
65°	1550.1	1553.8	1572.4	1763.4	2035.4	4756.4	12127.6	16272.8	16204.8	11836.0	10499.2
66°	1412.2	1413.1	1442.0	1646.9	1826.7	3873.3	11241.7	16375.3	16412.6	12072.6	10395.8
67.5°	1234.3	1230.5	1272.5	1480.2	1663.7	2792.7	9656.2	15959.9	16180.6	12254.2	10024.2
70°	956.7	952.0	1003.3	1241.7	1532.4	1863.1	6418.2	13703.7	14059.5	11882.6	8869.1
72.5°	637.2	640.9	728.5	980.0	1462.5	1640.4	3861.2	10424.7	10927.7	9812.7	6977.1
75°	371.7	378.2	477.9	728.5	1269.7	1564.0	2185.4	7433.6	7755.0	6775.9	4346.5
77.5°	194.7	197.5	267.3	480.7	973.4	1452.3	1456.0	4748.9	4899.8	3292.9	1720.5
80°	103.4	100.6	143.5	289.7	669.8	1275.3	1181.2	2514.2	2613.9	978.1	435.0
82.5°	39.1	42.9	76.4	190.0	395.9	915.7	1017.2	1111.3	1076.8	215.2	182.6
85°	7.5	9.3	32.6	112.7	199.3	382.9	749.9	544.9	504.9	81.0	105.3
87.5°	0.9	1.9	9.3	27.0	28.9	129.5	221.7	150.9	130.4	29.8	43.8
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°	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6
2.5°	3272.5	3247.3	3163.5	3080.6	2995.8	2919.4	2867.2	2782.5	2761.0	2730.3	2712.6
5°	3265.9	3207.2	3046.1	2870.0	2706.1	2529.1	2394.0	2263.6	2193.7	2158.3	2145.3
7.5°	3247.3	3154.2	2902.6	2626.9	2364.2	2099.7	1869.6	1694.4	1581.7	1504.4	1452.3
10°	3210.0	3081.5	2735.9	2356.8	1959.9	1610.6	1319.0	1097.3	925.9	871.9	873.8
12.5°	3171.8	3000.4	2549.6	2056.8	1565.0	1124.4	815.1	640.0	558.0	531.0	525.4
15°	3136.5	2923.1	2367.0	1766.2	1165.3	728.5	525.4	463.9	441.5	436.9	436.0
17.5°	3117.8	2851.4	2172.3	1433.6	813.2	494.6	421.1	404.3	397.8	393.1	391.2
20°	3102.0	2789.0	1986.0	1122.5	556.1	405.2	377.3	361.4	350.3	345.6	342.8
22.5°	3090.8	2724.7	1793.2	869.1	425.7	359.6	334.4	313.9	298.1	292.5	288.8
25°	3074.0	2653.9	1598.5	635.3	358.6	319.5	290.6	266.4	245.9	235.7	233.8
27.5°	3049.8	2573.8	1385.2	470.4	320.4	284.1	248.7	218.9	198.4	187.2	188.2
30°	3010.7	2490.0	1171.9	373.5	289.7	247.8	209.6	180.7	161.2	152.8	151.8
32.5°	2964.1	2388.4	976.2	320.4	261.8	215.2	175.1	150.0	135.1	128.6	127.6
35°	2920.3	2286.0	776.9	287.8	232.9	185.4	147.2	125.8	114.6	109.0	109.9
37.5°	2896.1	2194.7	605.5	261.8	209.6	159.3	126.7	108.1	97.8	93.2	92.2
40°	2912.0	2120.2	481.6	238.5	183.5	136.9	109.0	93.2	82.9	76.4	76.4
42.5°	2986.5	2087.6	388.4	216.1	159.3	118.3	95.0	80.1	68.9	62.4	63.3
45°	3213.8	2122.0	325.1	195.6	136.9	102.5	82.0	66.1	55.9	51.2	50.3
47.5°	3591.0	2251.5	281.3	174.2	117.4	87.6	68.9	55.0	44.7	41.0	40.1
50°	4250.6	2518.8	248.7	152.8	99.7	74.5	56.8	43.8	35.4	31.7	31.7
52.5°	5157.9	3102.0	225.4	128.6	83.8	63.3	46.6	35.4	27.9	25.2	24.2
55°	6106.2	3716.8	213.3	108.1	69.9	52.2	37.3	27.9	21.4	18.6	17.7
57.5°	7018.1	4199.3	199.3	87.6	55.9	40.1	28.9	21.4	14.9	13.0	12.1
60°	7892.8	4589.6	169.5	69.9	43.8	28.9	21.4	14.9	10.2	8.4	8.4
62.5°	8675.3	4816.9	133.2	55.9	33.5	20.5	14.0	11.2	7.5	5.6	5.6
65°	8766.6	4521.6	100.6	42.9	24.2	13.0	8.4	8.4	5.6	3.7	3.7
66°	8583.1	4271.1	88.5	39.1	21.4	11.2	7.5	6.5	4.7	2.8	2.8
67.5°	8173.2	3843.5	76.4	33.5	17.7	8.4	5.6	5.6	3.7	1.9	1.9
70°	7061.9	3139.2	60.5	25.2	13.0	6.5	3.7	3.7	2.8	1.9	1.9
72.5°	5382.4	2343.7	49.4	18.6	9.3	4.7	2.8	2.8	2.8	1.9	1.9
75°	3246.4	1262.2	38.2	14.0	8.4	3.7	1.9	2.8	3.7	2.8	1.9
77.5°	1196.1	429.4	29.8	11.2	6.5	3.7	1.9	1.9	3.7	2.8	2.8
80°	293.4	111.8	21.4	9.3	6.5	3.7	1.9	1.9	3.7	3.7	3.7
82.5°	136.0	47.5	14.9	8.4	6.5	3.7	1.9	1.9	2.8	3.7	3.7
85°	78.2	22.4	12.1	9.3	6.5	3.7	1.9	1.9	2.8	3.7	3.7
87.5°	31.7	11.2	11.2	9.3	7.5	4.7	1.9	1.9	1.9	2.8	2.8
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)