

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: P452690

Luminaire Tested: **GALN-SA3C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452690
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-SA3C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 13649 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

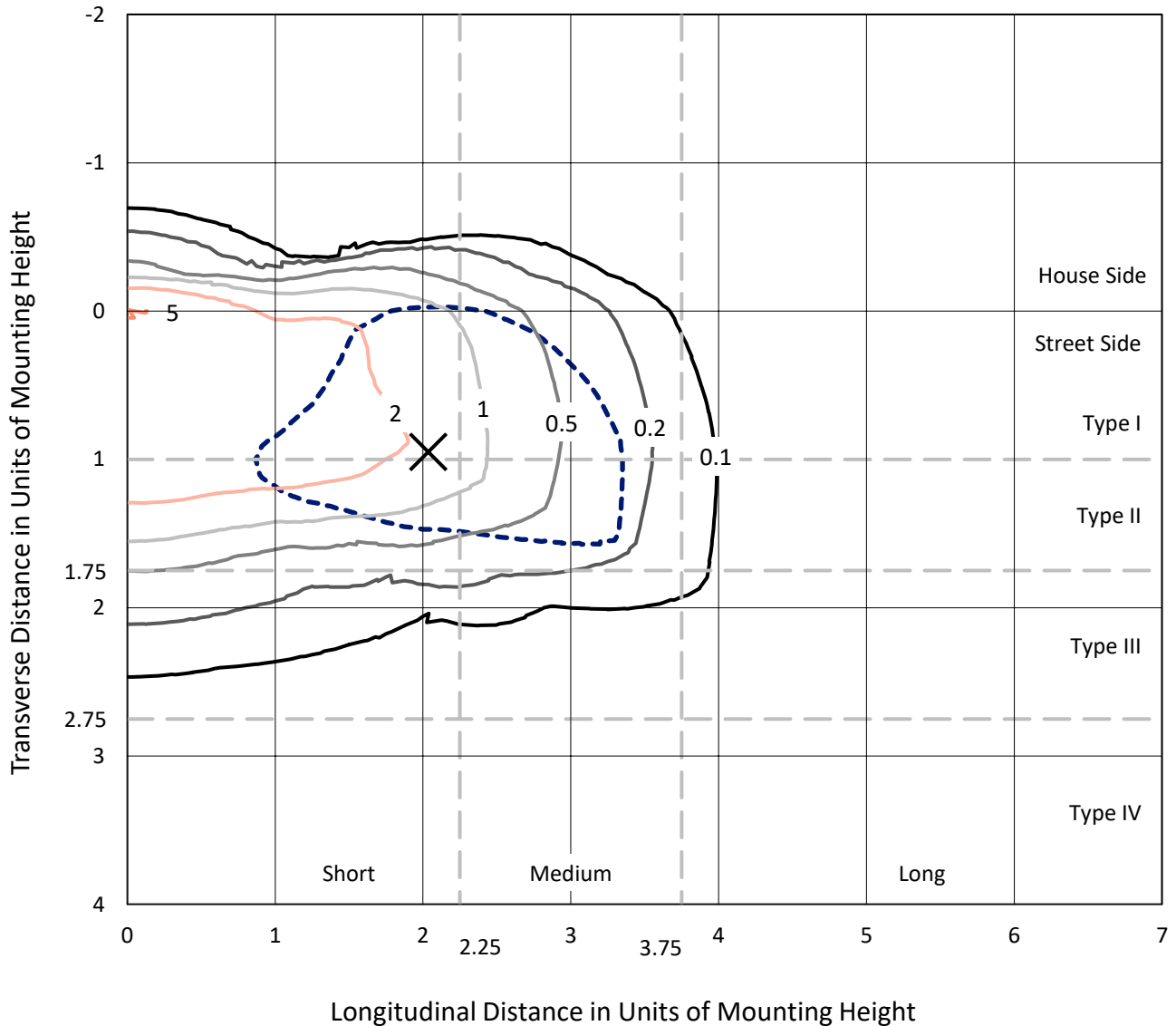
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

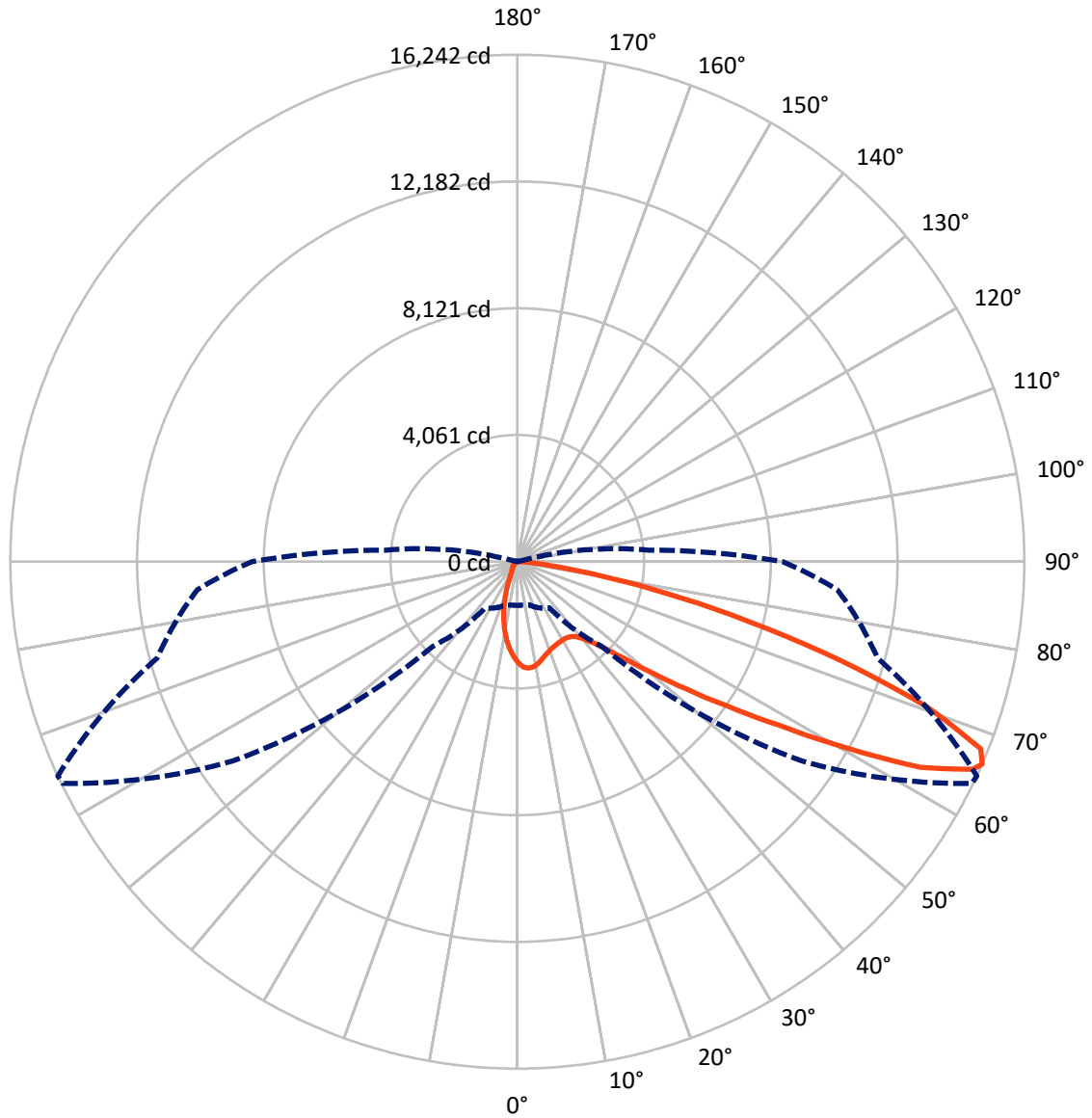
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1411.5	0.0	1411.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12237.5	0.0	12237.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	13649.0	0.0	13649.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	1.9
10°-20°	576.8	4.2
20°-30°	826.2	6.1
30°-40°	1206.8	8.8
40°-50°	2023.5	14.8
50°-60°	3376.9	24.7
60°-70°	3584.5	26.3
70°-80°	1623.4	11.9
80°-90°	166.1	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°	13649.0	100.0
0°-180°	13649.0	100.0

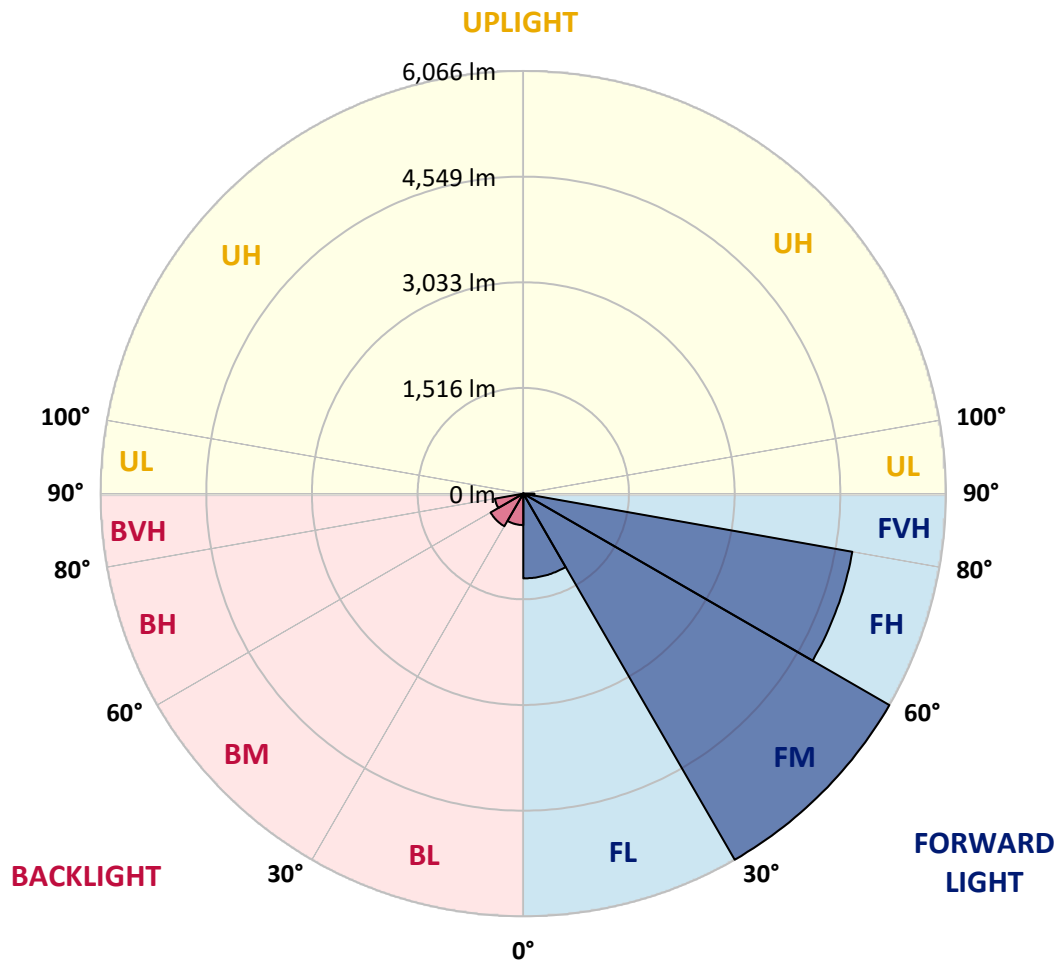


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.2	8.9			
FM (30°-60°)	6065.9	44.4			
FH (60°-80°)	4794.6	35.1			G2/5000
FVH (80°-90°)	160.8	1.2			G2/225
BL (0°-30°)	451.5	3.3	B1/500		
BM (30°-60°)	541.3	4.0	B1/1000		
BH (60°-80°)	413.4	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°	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7
2.5°	3410.9	3414.6	3419.2	3425.7	3430.3	3416.4	3397.1	3375.0	3370.4	3323.3	3266.2
5°	3228.4	3233.9	3274.5	3296.6	3346.4	3391.6	3420.1	3423.8	3422.0	3377.7	3286.5
7.5°	2968.4	2984.1	3023.7	3062.4	3155.6	3241.3	3342.7	3413.7	3418.3	3406.3	3292.9
10°	2757.3	2767.5	2787.7	2864.2	2941.7	3072.6	3214.6	3348.2	3359.3	3407.2	3287.4
12.5°	2592.3	2607.0	2631.9	2690.9	2784.0	2907.6	3068.9	3248.7	3271.7	3389.7	3271.7
15°	2477.1	2484.4	2509.3	2567.4	2657.7	2772.1	2935.2	3144.5	3164.8	3366.7	3268.9
17.5°	2422.7	2431.0	2448.5	2494.6	2569.2	2675.3	2834.7	3060.6	3086.4	3351.9	3279.1
20°	2437.4	2444.8	2445.7	2469.7	2520.4	2609.8	2761.0	2982.2	3015.4	3342.7	3295.7
22.5°	2521.3	2522.2	2511.2	2500.1	2517.6	2582.2	2715.8	2932.5	2966.6	3340.9	3315.0
25°	2646.7	2649.5	2631.0	2592.3	2557.3	2590.5	2705.7	2900.2	2930.6	3336.2	3327.0
27.5°	2820.0	2819.1	2813.5	2749.0	2649.5	2627.3	2714.0	2882.7	2908.5	3323.3	3331.6
30°	3062.4	3055.1	3043.1	2970.3	2818.2	2716.7	2749.0	2871.6	2895.6	3304.9	3319.6
32.5°	3301.2	3328.9	3327.0	3257.9	3068.0	2876.2	2821.8	2886.4	2903.9	3292.9	3302.1
35°	3579.6	3578.7	3649.7	3623.9	3401.7	3080.0	2946.3	2935.2	2949.1	3301.2	3293.8
37.5°	3837.7	3861.7	3972.3	3999.1	3796.3	3367.6	3122.4	3040.3	3044.9	3357.4	3314.1
40°	4159.5	4205.6	4370.6	4460.0	4281.2	3794.4	3382.3	3233.0	3233.9	3495.7	3390.6
42.5°	4574.3	4647.1	4801.1	4950.4	4854.6	4299.6	3772.3	3538.1	3536.3	3739.1	3565.8
45°	5078.6	5129.3	5304.4	5541.4	5480.5	5004.8	4340.2	4011.1	3987.1	4138.3	3876.5
47.5°	5513.7	5582.8	5760.8	6030.9	6307.4	5865.9	5018.7	4661.0	4645.3	4773.4	4409.3
50°	5703.6	5764.4	5951.6	6330.5	7000.7	6996.1	6029.0	5609.6	5582.8	5652.0	5233.4
52.5°	5495.3	5552.4	5741.4	6213.4	7327.0	8373.3	7492.9	6799.7	6767.4	6678.9	6218.0
55°	4781.7	4828.7	5108.1	5650.1	7201.6	9291.5	9510.0	8270.1	8144.7	7800.9	7332.5
57.5°	3807.3	3783.3	3956.7	4586.3	6466.0	9599.4	11580.5	10101.8	9877.8	8770.7	8275.6
60°	2638.4	2712.1	2782.2	3197.0	4861.9	9065.7	12868.4	12404.7	12109.7	9724.8	9179.0
62.5°	1939.6	1988.5	2034.6	2226.3	3056.9	7238.5	13096.1	14770.2	14508.4	10737.9	10041.0
65°	1534.0	1537.7	1556.1	1745.1	2014.3	4707.1	12001.8	16104.1	16036.8	11713.3	10390.4
66°	1397.6	1398.5	1427.1	1629.9	1807.8	3833.1	11125.1	16205.5	16242.4	11947.4	10288.1
67.5°	1221.5	1217.8	1259.3	1464.8	1646.5	2763.8	9556.1	15794.4	16012.9	12127.2	9920.2
70°	946.8	942.1	992.9	1228.9	1516.5	1843.7	6351.7	13561.6	13913.8	11759.4	8777.1
72.5°	630.6	634.2	720.9	969.8	1447.3	1623.4	3821.1	10316.6	10814.4	9711.0	6904.8
75°	367.8	374.3	472.9	720.9	1256.5	1547.8	2162.7	7356.5	7674.6	6705.7	4301.4
77.5°	192.7	195.4	264.6	475.7	963.4	1437.2	1440.9	4699.7	4849.0	3258.8	1702.7
80°	102.3	99.6	142.0	286.7	662.8	1262.0	1168.9	2488.1	2586.8	968.0	430.5
82.5°	38.7	42.4	75.6	188.1	391.8	906.2	1006.7	1099.8	1065.7	213.0	180.7
85°	7.4	9.2	32.3	111.5	197.3	378.9	742.1	539.3	499.7	80.2	104.2
87.5°	0.9	1.8	9.2	26.7	28.6	128.1	219.4	149.3	129.1	29.5	43.3
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°	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7	3236.7
2.5°	3238.5	3213.6	3130.7	3048.6	2964.7	2889.1	2837.5	2753.6	2732.4	2702.0	2684.5
5°	3232.1	3174.0	3014.5	2840.3	2678.0	2502.9	2369.2	2240.1	2171.0	2136.0	2123.1
7.5°	3213.6	3121.4	2872.5	2599.7	2339.7	2077.9	1850.2	1676.9	1565.3	1488.8	1437.2
10°	3176.8	3049.5	2707.5	2332.3	1939.6	1593.9	1305.4	1086.0	916.3	862.9	864.7
12.5°	3139.0	2969.3	2523.2	2035.5	1548.7	1112.7	806.6	633.3	552.2	525.5	519.9
15°	3103.9	2892.8	2342.5	1747.9	1153.3	720.9	519.9	459.1	437.0	432.4	431.4
17.5°	3085.5	2821.8	2149.8	1418.8	804.8	489.5	416.7	400.1	393.6	389.0	387.2
20°	3069.8	2760.1	1965.4	1110.9	550.4	401.0	373.4	357.7	346.6	342.0	339.2
22.5°	3058.8	2696.5	1774.6	860.1	421.3	355.8	331.0	310.7	295.0	289.5	285.8
25°	3042.2	2626.4	1581.9	628.7	354.9	316.2	287.6	263.7	243.4	233.2	231.4
27.5°	3018.2	2547.1	1370.8	465.5	317.1	281.2	246.1	216.6	196.4	185.3	186.2
30°	2979.5	2464.2	1159.7	369.7	286.7	245.2	207.4	178.8	159.5	151.2	150.3
32.5°	2933.4	2363.7	966.1	317.1	259.0	213.0	173.3	148.4	133.7	127.2	126.3
35°	2890.1	2262.3	768.8	284.9	230.5	183.5	145.7	124.5	113.4	107.9	108.8
37.5°	2866.1	2171.9	599.2	259.0	207.4	157.6	125.4	106.9	96.8	92.2	91.3
40°	2881.8	2098.2	476.6	236.0	181.6	135.5	107.9	92.2	82.0	75.6	75.6
42.5°	2955.5	2065.9	384.4	213.9	157.6	117.1	94.0	79.3	68.2	61.8	62.7
45°	3180.4	2100.0	321.7	193.6	135.5	101.4	81.1	65.5	55.3	50.7	49.8
47.5°	3553.8	2228.2	278.4	172.4	116.2	86.7	68.2	54.4	44.2	40.6	39.6
50°	4206.5	2492.7	246.1	151.2	98.6	73.7	56.2	43.3	35.0	31.3	31.3
52.5°	5104.4	3069.8	223.1	127.2	83.0	62.7	46.1	35.0	27.7	24.9	24.0
55°	6042.8	3678.3	211.1	106.9	69.1	51.6	36.9	27.7	21.2	18.4	17.5
57.5°	6945.4	4155.8	197.3	86.7	55.3	39.6	28.6	21.2	14.7	12.9	12.0
60°	7811.0	4542.0	167.8	69.1	43.3	28.6	21.2	14.7	10.1	8.3	8.3
62.5°	8585.4	4767.0	131.8	55.3	33.2	20.3	13.8	11.1	7.4	5.5	5.5
65°	8675.7	4474.8	99.6	42.4	24.0	12.9	8.3	8.3	5.5	3.7	3.7
66°	8494.1	4226.8	87.6	38.7	21.2	11.1	7.4	6.5	4.6	2.8	2.8
67.5°	8088.5	3803.6	75.6	33.2	17.5	8.3	5.5	5.5	3.7	1.8	1.8
70°	6988.7	3106.7	59.9	24.9	12.9	6.5	3.7	3.7	2.8	1.8	1.8
72.5°	5326.6	2319.4	48.9	18.4	9.2	4.6	2.8	2.8	2.8	1.8	1.8
75°	3212.7	1249.1	37.8	13.8	8.3	3.7	1.8	2.8	3.7	2.8	1.8
77.5°	1183.7	425.0	29.5	11.1	6.5	3.7	1.8	1.8	3.7	2.8	2.8
80°	290.4	110.6	21.2	9.2	6.5	3.7	1.8	1.8	3.7	3.7	3.7
82.5°	134.6	47.0	14.7	8.3	6.5	3.7	1.8	1.8	2.8	3.7	3.7
85°	77.4	22.1	12.0	9.2	6.5	3.7	1.8	1.8	2.8	3.7	3.7
87.5°	31.3	11.1	11.1	9.2	7.4	4.6	1.8	1.8	1.8	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)