

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: P200130

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL3-1200-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11909.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

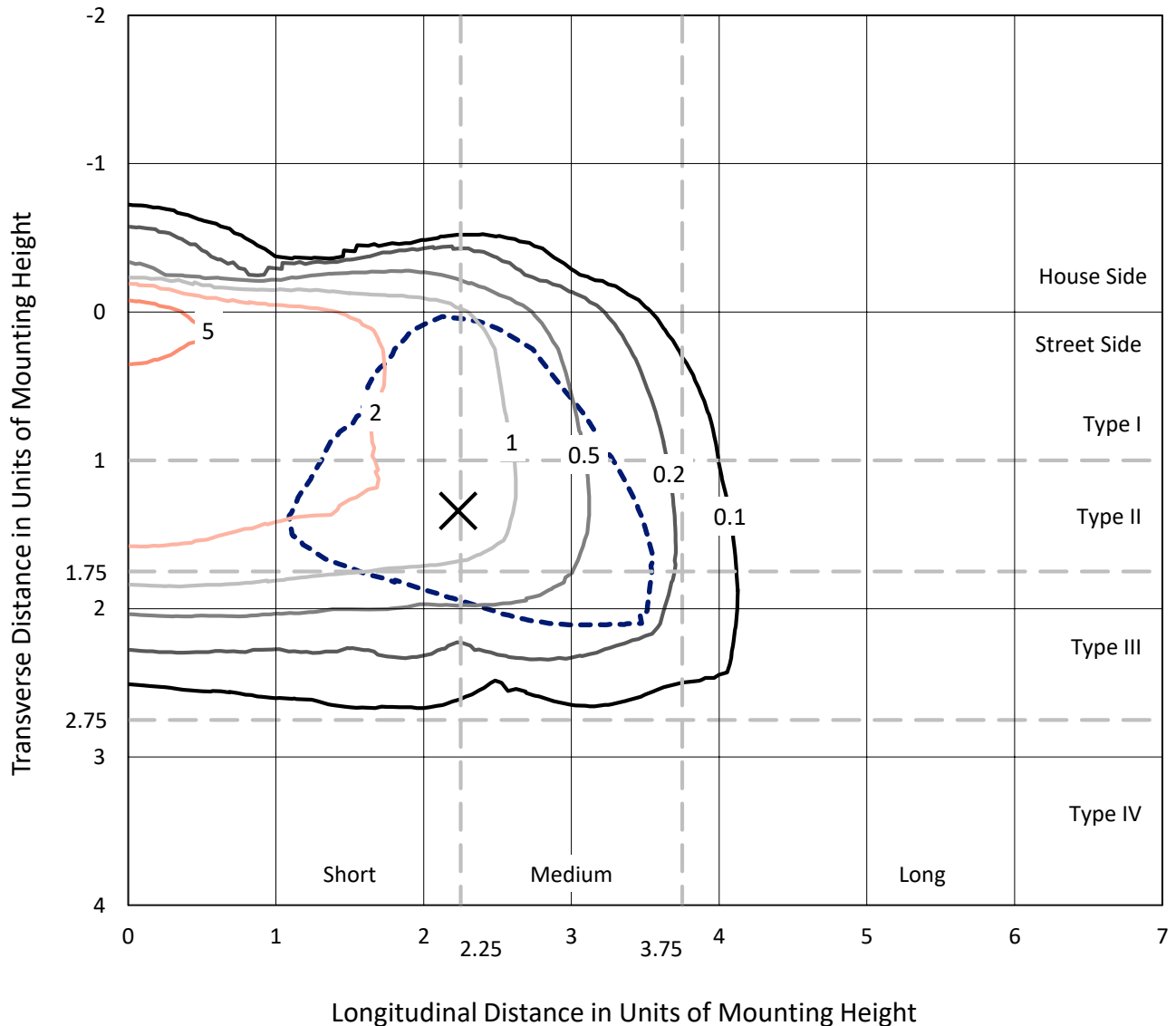
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

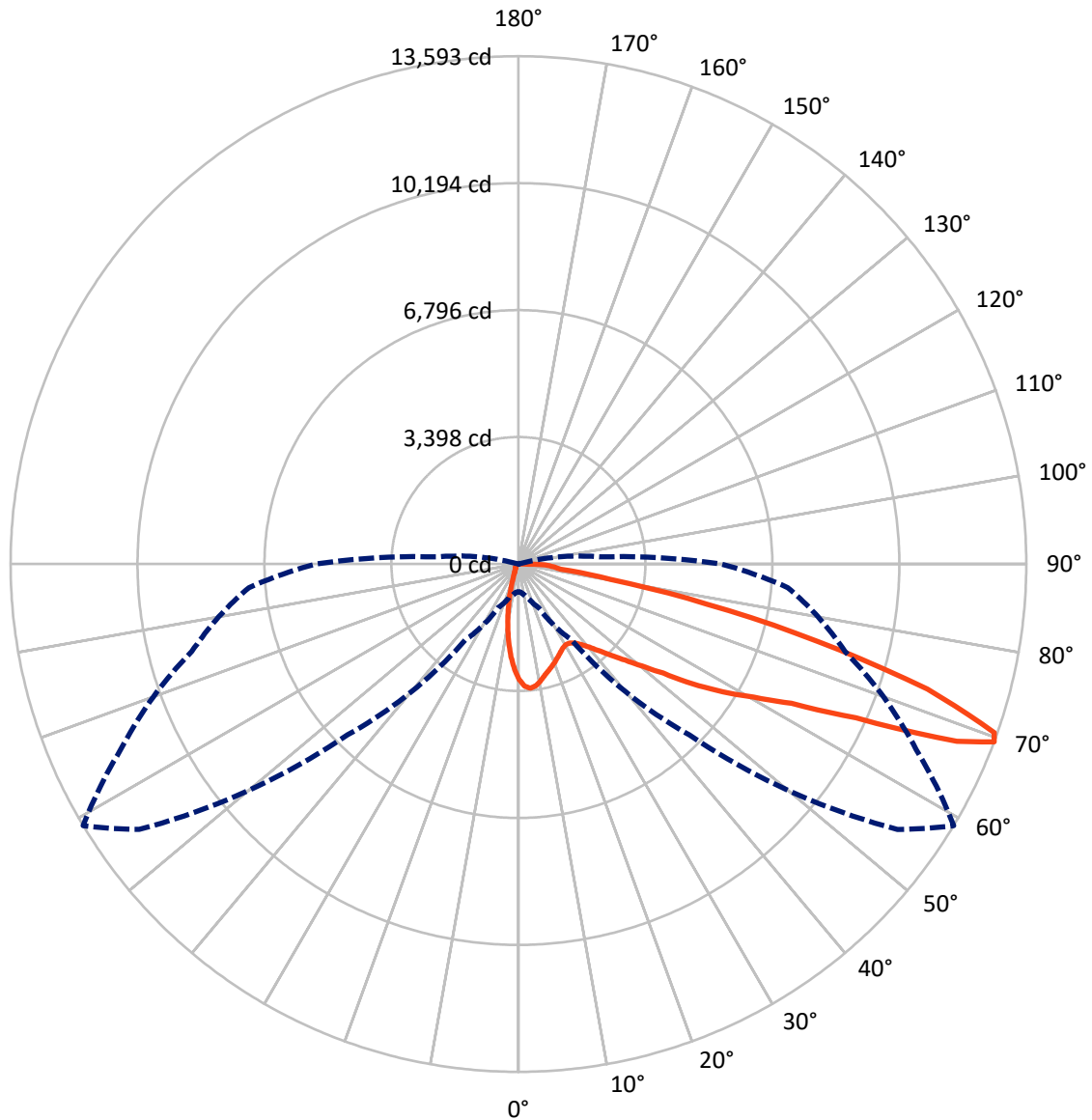
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	969.9	0.0	969.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	10939.3	0.0	10939.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	11909.2	0.0	11909.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	2.1
10°-20°	519.9	4.4
20°-30°	699.6	5.9
30°-40°	1015.8	8.5
40°-50°	1691.3	14.2
50°-60°	2638.4	22.2
60°-70°	3264.9	27.4
70°-80°	1654.6	13.9
80°-90°	173.1	1.5
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°	11909.2	100.0
0°-180°	11909.2	100.0



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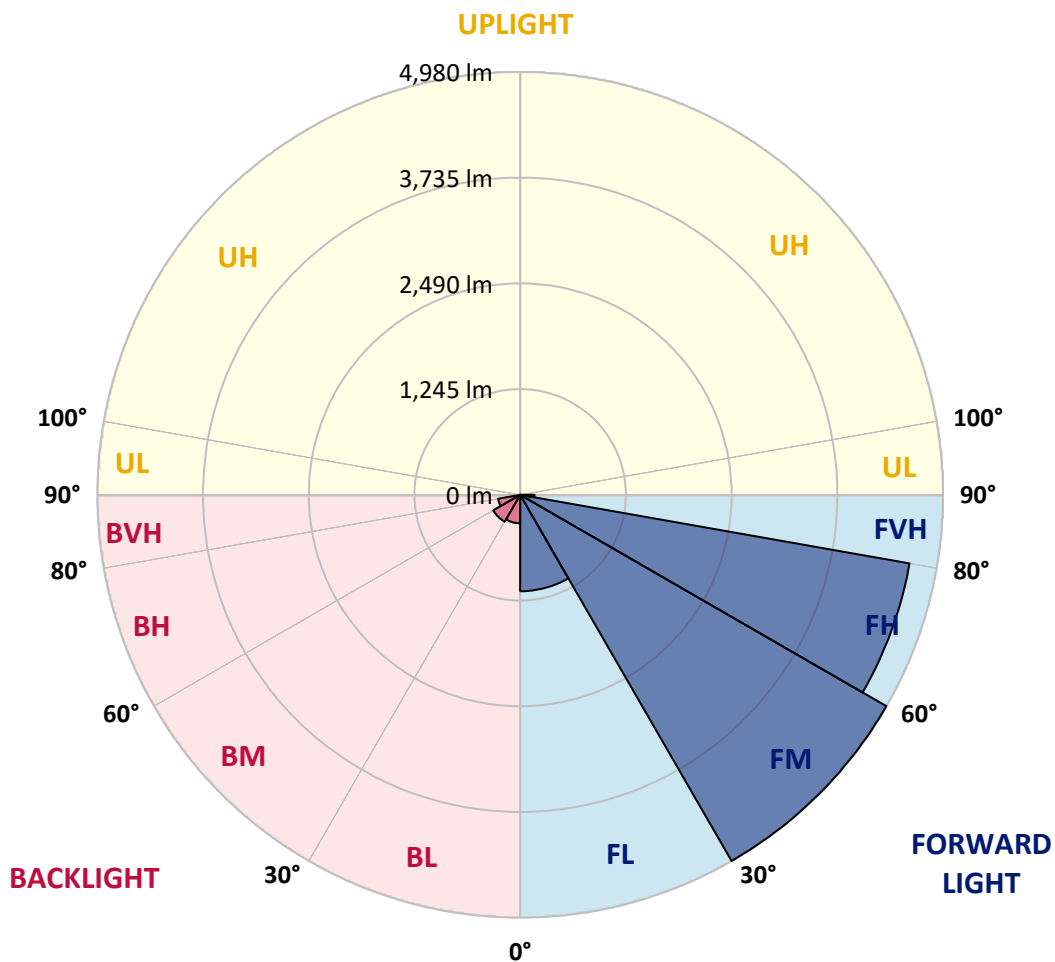
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1135.4	9.5			
FM	(30°-60°)	4980.1	41.8			
FH	(60°-80°)	4656.1	39.1			G2/5000
FVH	(80°-90°)	167.8	1.4			G2/225
BL	(0°-30°)	335.7	2.8	B1/500		
BM	(30°-60°)	365.4	3.1	B1/1000		
BH	(60°-80°)	263.4	2.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8
2.5°	3397.4	3396.1	3381.3	3374.5	3362.4	3336.9	3297.1	3276.2	3242.5	3183.9	3105.2
5°	3366.4	3382.6	3391.4	3392.1	3400.8	3391.4	3355.7	3338.2	3291.8	3197.4	3056.1
7.5°	3156.4	3162.5	3187.3	3208.9	3250.6	3290.4	3303.2	3295.7	3268.1	3167.2	2979.2
10°	2931.5	2937.5	2967.2	2995.4	3052.0	3113.2	3177.9	3191.4	3202.9	3124.1	2905.2
12.5°	2737.5	2743.6	2773.8	2810.9	2876.8	2952.3	3052.7	3074.9	3125.4	3083.0	2846.0
15°	2570.5	2573.1	2602.8	2648.6	2727.4	2824.4	2938.2	2973.8	3051.4	3054.0	2794.1
17.5°	2428.4	2435.1	2453.3	2497.1	2583.3	2703.1	2835.8	2887.0	2977.9	3029.8	2743.6
20°	2341.5	2348.3	2347.6	2371.8	2449.3	2577.2	2733.4	2794.7	2905.2	3004.8	2698.4
22.5°	2324.7	2324.7	2307.2	2303.8	2349.6	2456.7	2627.0	2701.8	2839.8	2994.1	2666.8
25°	2384.6	2381.9	2338.2	2302.5	2304.5	2368.4	2524.0	2612.9	2784.7	3001.4	2650.0
27.5°	2511.2	2507.9	2452.6	2384.6	2330.1	2329.4	2445.9	2541.5	2740.9	3036.5	2656.7
30°	2686.3	2684.9	2625.0	2539.5	2440.6	2349.6	2419.0	2505.8	2712.6	3099.8	2672.2
32.5°	2877.6	2875.5	2830.4	2740.2	2615.0	2440.6	2447.2	2519.9	2720.6	3183.9	2709.9
35°	3080.3	3076.9	3057.4	2978.6	2840.5	2608.2	2540.2	2596.8	2771.8	3309.9	2784.0
37.5°	3299.8	3303.2	3317.3	3241.9	3097.1	2843.2	2695.8	2734.1	2874.9	3481.0	2904.5
40°	3623.7	3623.1	3627.8	3528.8	3389.3	3130.7	2913.3	2925.3	3047.3	3707.9	3087.7
42.5°	4211.6	4170.6	4046.0	3843.9	3703.9	3459.4	3187.3	3174.5	3258.1	3988.7	3344.2
45°	5001.6	4914.1	4590.8	4203.5	4024.4	3829.8	3524.8	3483.7	3536.9	4326.2	3660.7
47.5°	5681.1	5590.1	5132.9	4578.0	4364.5	4181.3	3920.0	3846.0	3863.5	4703.9	4062.1
50°	5912.0	5867.6	5468.3	4903.9	4693.8	4623.7	4378.6	4288.4	4263.5	5140.9	4527.5
52.5°	5831.9	5828.6	5562.5	5115.4	4995.5	5081.7	4955.8	4851.3	4759.8	5601.6	5000.9
55°	5703.3	5720.1	5601.0	5300.5	5296.5	5499.9	5745.0	5658.1	5392.8	6101.9	5409.0
57.5°	5348.4	5420.4	5579.4	5650.8	5816.4	6024.5	6402.3	6453.5	6139.6	6485.1	5747.8
60°	4339.6	4497.8	5017.7	5701.2	6486.4	7005.1	7195.6	7239.4	6752.5	6803.6	6205.0
62.5°	3080.3	3241.9	3901.2	5057.5	6496.6	8293.3	8377.5	8205.7	7427.2	7275.7	6993.6
65°	1635.1	1759.7	2298.4	3650.7	5632.6	8592.3	10444.2	9932.4	8617.8	8204.4	8012.5
67.5°	836.4	874.1	1088.2	1786.6	3872.2	7632.0	12296.8	12657.1	10669.8	9125.6	7963.3
69°	740.1	762.3	904.4	1291.7	2479.5	6464.2	12387.1	13592.6	11744.0	9048.9	7236.7
70°	716.6	736.0	865.3	1169.0	1938.1	5421.1	12041.6	13510.3	12018.8	8756.6	6693.9
72.5°	608.1	624.9	770.4	1033.1	1575.1	2691.1	9781.6	11448.4	10785.0	7294.6	4845.3
75°	406.7	462.0	739.4	968.4	1465.4	1528.7	6448.8	8273.1	7685.2	4920.1	2524.0
77.5°	97.7	105.1	208.8	770.4	1340.2	1345.5	3316.6	5143.0	4194.8	1753.6	596.7
80°	52.5	50.5	58.6	152.8	1247.9	1262.7	1493.0	2496.4	1497.7	290.9	196.6
82.5°	37.0	35.0	37.7	63.9	392.6	1150.2	1080.1	1130.1	620.9	111.8	88.2
85°	13.5	12.8	20.9	57.9	123.3	661.3	1109.8	932.0	503.1	51.1	64.7
87.5°	4.7	4.0	8.1	31.6	37.7	281.5	684.9	704.4	197.9	31.0	30.3
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°	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8	3099.8
2.5°	3072.2	3030.4	2953.7	2874.9	2802.2	2714.6	2670.8	2627.8	2609.5	2602.8	2571.2
5°	2983.3	2912.5	2749.6	2586.0	2435.1	2274.8	2169.2	2084.3	2034.4	2010.2	1971.8
7.5°	2869.5	2753.7	2506.5	2254.0	2018.9	1787.3	1615.5	1483.6	1392.6	1348.9	1309.2
10°	2759.0	2604.8	2253.3	1909.1	1590.0	1282.9	1045.9	874.1	764.3	713.8	681.5
12.5°	2660.1	2460.0	2008.9	1573.1	1172.4	812.8	571.7	435.1	367.0	343.4	332.0
15°	2571.8	2326.7	1777.9	1253.9	794.0	464.6	312.5	266.0	255.2	255.2	253.9
17.5°	2488.3	2196.1	1555.0	954.2	498.4	284.2	237.7	231.7	231.7	234.4	234.4
20°	2408.2	2071.5	1339.5	684.9	313.8	225.6	214.8	213.5	214.8	218.2	218.2
22.5°	2339.5	1958.3	1138.1	470.0	233.0	203.4	197.9	196.0	196.6	198.7	200.0
25°	2288.3	1862.7	948.2	318.5	200.7	185.2	179.1	175.7	173.1	173.1	174.4
27.5°	2256.0	1781.9	764.3	231.7	180.4	168.4	159.0	153.5	147.5	144.1	145.5
30°	2232.4	1705.2	592.0	189.2	161.6	149.5	137.4	128.6	119.9	115.8	117.1
32.5°	2223.7	1643.2	442.4	167.0	144.7	131.3	116.5	105.1	95.6	92.3	92.9
35°	2247.2	1594.0	324.0	150.9	131.3	114.5	97.7	84.8	77.4	75.4	76.1
37.5°	2309.2	1567.8	242.4	137.4	119.2	100.4	81.5	69.4	64.7	64.7	65.4
40°	2426.3	1567.1	194.7	128.0	108.4	86.8	67.3	58.6	55.9	57.3	57.9
42.5°	2597.4	1602.8	169.7	119.2	99.0	74.1	55.9	49.8	49.2	50.5	51.1
45°	2831.1	1668.1	156.2	111.8	88.9	62.0	47.2	43.1	43.1	45.1	45.8
47.5°	3117.3	1763.7	144.7	104.3	78.8	51.9	40.4	37.7	38.4	40.4	41.1
50°	3462.1	1884.3	133.3	96.3	71.4	43.1	35.0	33.0	33.7	36.3	37.0
52.5°	3854.7	2046.5	123.9	88.9	62.0	35.7	29.7	28.2	29.7	32.3	33.0
55°	4191.4	2192.0	112.4	82.9	49.8	29.7	24.2	24.2	25.6	28.9	29.7
57.5°	4515.3	2344.2	102.4	71.4	39.1	23.5	20.2	20.9	22.9	26.3	26.9
60°	4990.8	2602.2	90.2	59.9	29.7	18.8	16.9	17.5	20.2	23.5	24.2
62.5°	5798.2	2994.8	78.2	49.8	22.9	14.8	13.5	14.8	18.2	22.2	22.9
65°	6526.8	3154.4	63.9	41.7	17.5	11.5	11.5	13.5	17.5	21.6	22.2
67.5°	6120.8	2655.4	49.8	33.0	13.5	8.8	9.4	12.8	16.9	21.6	22.2
69°	5413.0	2171.1	42.5	26.3	11.5	8.1	8.8	12.8	16.9	20.9	21.6
70°	4861.5	1833.0	37.7	22.2	10.1	8.1	8.8	12.1	16.9	20.9	21.6
72.5°	3256.1	989.9	30.3	16.2	9.4	7.4	7.4	12.1	16.2	20.2	20.9
75°	1399.4	273.4	24.2	11.5	8.1	6.8	6.8	11.5	15.4	19.5	20.9
77.5°	255.9	69.4	19.5	10.1	8.1	6.8	6.0	10.7	14.8	18.8	19.5
80°	101.7	34.4	15.4	8.8	7.4	6.0	5.4	10.1	14.1	18.2	18.8
82.5°	61.3	19.5	12.8	8.1	7.4	5.4	4.7	8.8	13.5	17.5	18.2
85°	49.8	13.5	10.1	8.1	6.8	5.4	4.0	8.1	12.1	16.9	17.5
87.5°	24.2	9.4	9.4	7.4	6.8	5.4	4.0	7.4	11.5	16.2	16.9
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)