

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: P192852

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192852
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: GLEON-AF-04-LED-E1-SL3-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 13071.8 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

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

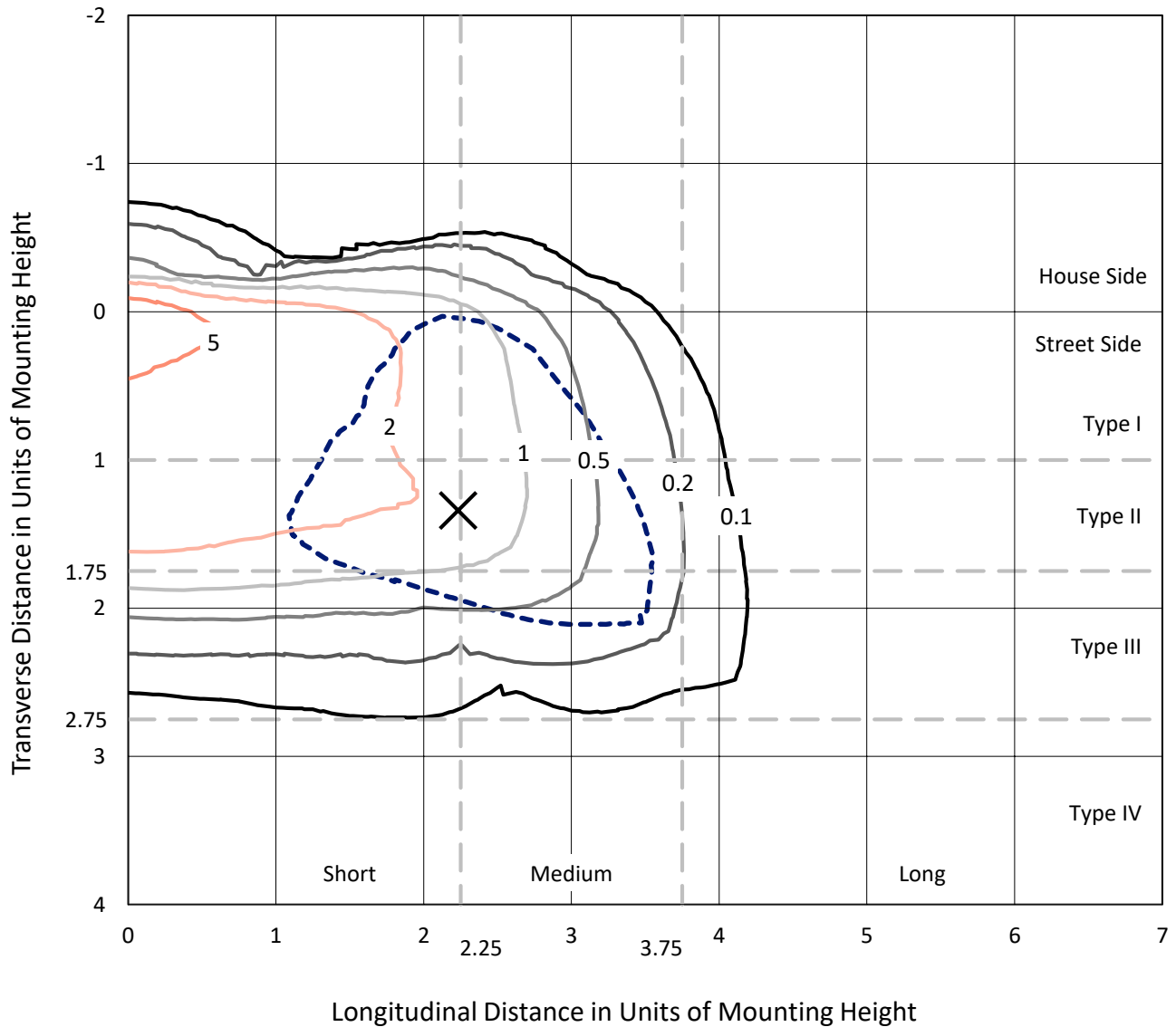


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

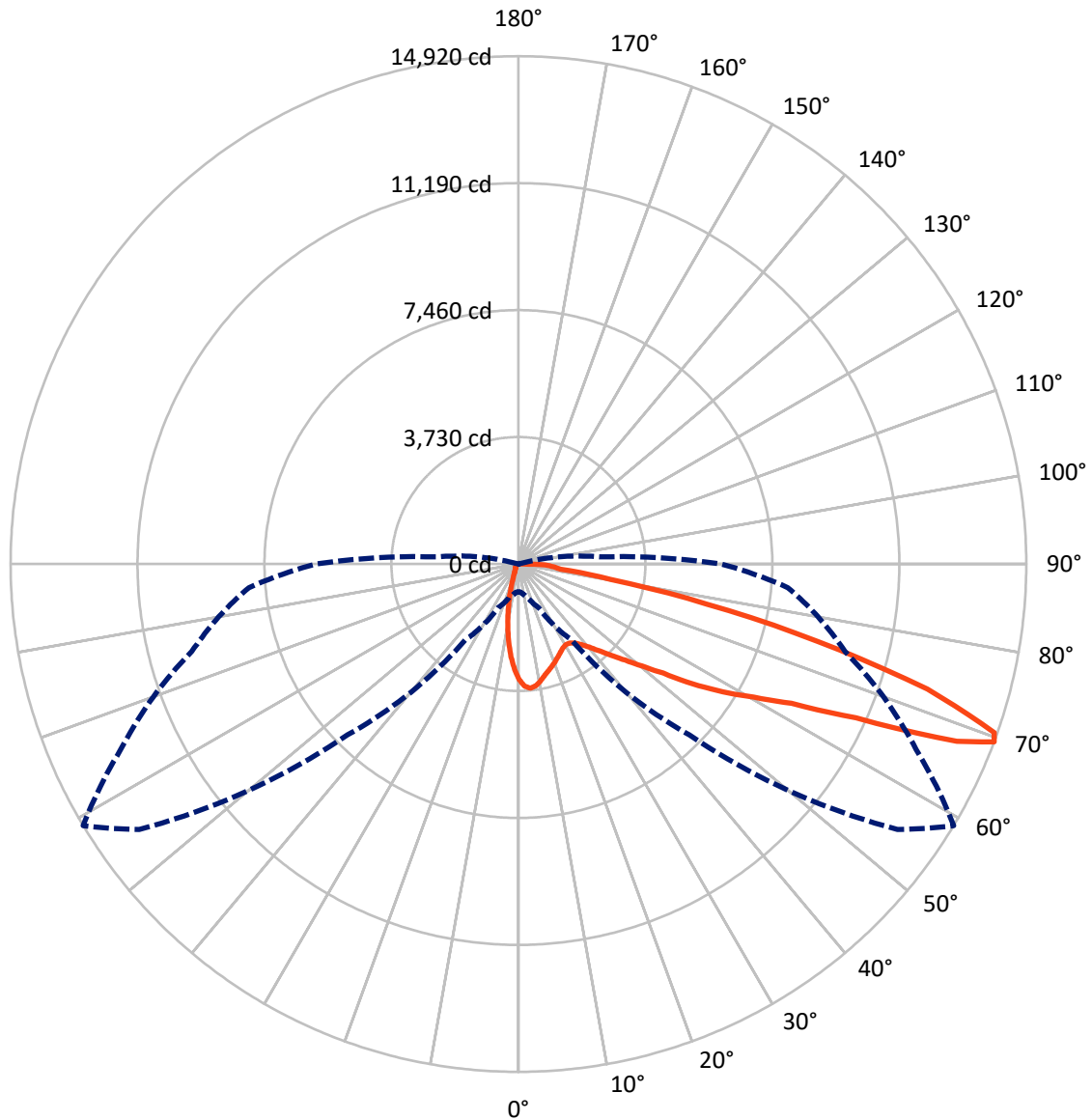


Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - Non-Cutoff

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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	1064.5	0.0	1064.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	12007.2	0.0	12007.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	13071.8	0.0	13071.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	2.1
10°-20°	570.7	4.4
20°-30°	767.9	5.9
30°-40°	1114.9	8.5
40°-50°	1856.4	14.2
50°-60°	2896.0	22.2
60°-70°	3583.6	27.4
70°-80°	1816.1	13.9
80°-90°	190.0	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°	13071.8	100.0
0°-180°	13071.8	100.0



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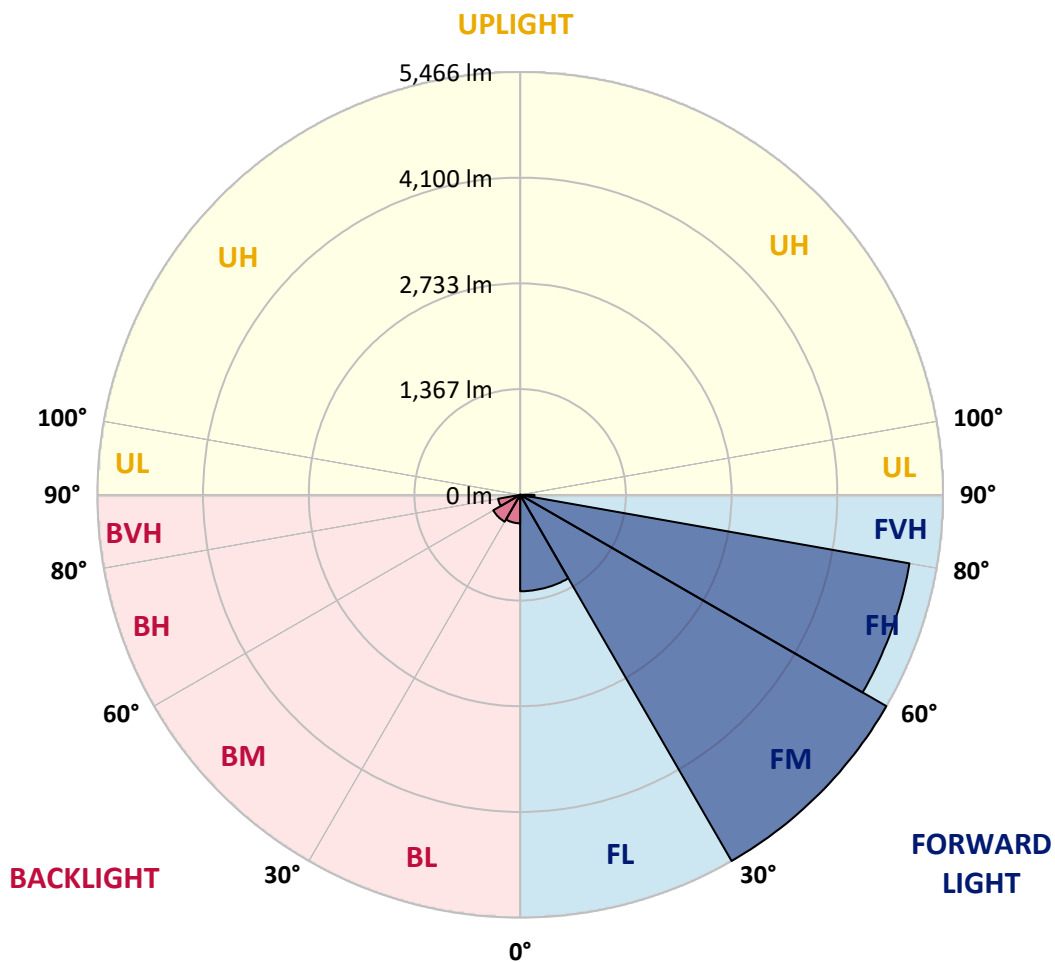
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1246.3	9.5			
FM	(30°-60°)	5466.2	41.8			
FH	(60°-80°)	5110.6	39.1			G3/7500
FVH	(80°-90°)	184.2	1.4			G2/225
BL	(0°-30°)	368.5	2.8	B1/500		
BM	(30°-60°)	401.1	3.1	B1/1000		
BH	(60°-80°)	289.1	2.2	B1/500		G1/500
BVH	(80°-90°)	5.8	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5
2.5°	3729.1	3727.6	3711.4	3704.0	3690.7	3662.6	3619.0	3596.0	3559.1	3494.7	3408.4
5°	3695.1	3712.8	3722.5	3723.2	3732.9	3722.5	3683.2	3664.1	3613.1	3509.6	3354.4
7.5°	3464.5	3471.1	3498.5	3522.2	3568.0	3611.6	3625.7	3617.5	3587.2	3476.3	3270.1
10°	3217.5	3224.2	3256.8	3287.8	3349.9	3417.2	3488.1	3503.0	3515.5	3429.0	3188.7
12.5°	3004.7	3011.4	3044.6	3085.3	3157.7	3240.5	3350.7	3375.0	3430.5	3384.0	3123.7
15°	2821.4	2824.4	2856.9	2907.2	2993.6	3100.1	3225.0	3264.2	3349.3	3352.2	3066.8
17.5°	2665.5	2672.8	2692.8	2740.9	2835.5	2967.1	3112.7	3168.8	3268.6	3325.6	3011.4
20°	2570.1	2577.5	2576.8	2603.3	2688.4	2828.8	3000.3	3067.6	3188.7	3298.2	2961.9
22.5°	2551.6	2551.6	2532.4	2528.7	2578.9	2696.5	2883.5	2965.6	3117.0	3286.3	2927.2
25°	2617.5	2614.5	2566.4	2527.2	2529.5	2599.8	2770.4	2867.9	3056.4	3294.5	2908.6
27.5°	2756.4	2752.7	2692.0	2617.5	2557.5	2556.7	2684.7	2789.6	3008.5	3333.0	2916.0
30°	2948.6	2947.0	2881.2	2787.4	2678.7	2578.9	2655.1	2750.5	2977.5	3402.5	2933.1
32.5°	3158.4	3156.3	3106.8	3007.7	2870.2	2678.7	2686.1	2766.0	2986.3	3494.7	2974.5
35°	3380.9	3377.3	3355.8	3269.4	3117.8	2862.8	2788.2	2850.2	3042.5	3633.0	3055.8
37.5°	3622.0	3625.7	3641.2	3558.3	3399.5	3120.8	2958.8	3001.1	3155.5	3820.8	3188.0
40°	3977.5	3976.7	3982.0	3873.2	3720.3	3436.4	3197.7	3210.9	3344.8	4069.9	3389.1
42.5°	4622.8	4577.6	4441.0	4219.1	4065.4	3797.1	3498.5	3484.5	3576.0	4378.1	3670.7
45°	5489.8	5393.7	5038.9	4613.9	4417.3	4203.6	3868.9	3823.7	3882.1	4748.4	4018.1
47.5°	6235.7	6135.9	5634.0	5024.9	4790.6	4589.6	4302.7	4221.4	4240.6	5163.1	4458.7
50°	6489.1	6440.4	6002.0	5382.6	5152.0	5075.1	4806.1	4707.0	4679.7	5642.8	4969.4
52.5°	6401.2	6397.5	6105.5	5614.8	5483.1	5577.8	5439.6	5325.0	5224.4	6148.4	5489.0
55°	6260.0	6278.5	6147.7	5818.0	5813.5	6036.8	6305.9	6210.6	5919.2	6697.6	5937.0
57.5°	5870.5	5949.6	6124.0	6202.4	6384.2	6612.6	7027.3	7083.5	6739.0	7118.2	6308.8
60°	4763.2	4936.9	5507.5	6257.9	7119.7	7688.9	7898.1	7946.1	7411.7	7467.9	6810.6
62.5°	3380.9	3558.3	4282.0	5551.1	7130.8	9102.9	9195.3	9006.8	8152.3	7986.0	7676.3
65°	1794.7	1931.4	2522.8	4007.1	6182.4	9431.0	11463.8	10902.0	9459.1	9005.3	8794.6
67.5°	918.0	959.4	1194.5	1960.9	4250.1	8377.0	13497.3	13892.8	11711.4	10016.5	8740.7
69°	812.4	836.7	992.7	1417.7	2721.6	7095.3	13596.3	14919.5	12890.4	9932.2	7943.1
70°	786.4	807.9	949.8	1283.2	2127.4	5950.4	13217.1	14829.2	13192.0	9611.4	7347.3
72.5°	667.5	685.9	845.5	1133.9	1728.9	2953.8	10736.5	12565.9	11837.8	8006.7	5318.3
75°	446.5	507.1	811.6	1062.9	1608.4	1677.9	7078.3	9080.7	8435.5	5400.3	2770.4
77.5°	107.2	115.3	229.1	845.5	1470.9	1476.8	3640.4	5645.1	4604.3	1924.8	654.9
80°	57.7	55.4	64.4	167.8	1369.7	1386.0	1638.8	2740.1	1644.0	319.4	215.8
82.5°	40.7	38.5	41.4	70.3	430.9	1262.5	1185.7	1240.3	681.6	122.7	96.8
85°	14.7	14.1	23.0	63.6	135.3	725.9	1218.1	1023.0	552.2	56.2	70.9
87.5°	5.1	4.5	8.8	34.8	41.4	308.9	751.7	773.1	217.3	34.0	33.3
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°	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5
2.5°	3372.1	3326.3	3242.0	3155.5	3075.6	2979.6	2931.5	2884.2	2864.3	2856.9	2822.1
5°	3274.5	3196.9	3018.1	2838.4	2672.8	2496.9	2380.9	2287.8	2233.0	2206.4	2164.3
7.5°	3149.6	3022.4	2751.1	2473.9	2216.0	1961.7	1773.3	1628.4	1528.6	1480.6	1437.0
10°	3028.3	2859.1	2473.3	2095.6	1745.2	1408.2	1147.9	959.4	839.0	783.5	748.0
12.5°	2919.7	2700.3	2205.0	1726.8	1286.8	892.2	627.5	477.5	402.8	377.0	364.4
15°	2822.9	2553.8	1951.4	1376.3	871.5	510.0	343.0	291.9	280.1	280.1	278.7
17.5°	2731.3	2410.5	1706.7	1047.4	547.0	311.9	260.9	254.2	254.2	257.2	257.2
20°	2643.3	2273.6	1470.2	751.7	344.5	247.6	235.8	234.4	235.8	239.5	239.5
22.5°	2567.9	2149.4	1249.2	515.9	255.7	223.2	217.3	215.1	215.8	218.1	219.5
25°	2511.7	2044.6	1040.8	349.6	220.2	203.2	196.6	193.0	190.0	190.0	191.4
27.5°	2476.3	1955.8	839.0	254.2	198.1	184.7	174.5	168.5	161.9	158.2	159.6
30°	2450.3	1871.6	649.8	207.7	177.4	164.1	150.8	141.2	131.5	127.2	128.6
32.5°	2440.8	1803.6	485.6	183.3	159.0	144.1	127.9	115.3	105.0	101.3	102.0
35°	2466.6	1749.6	355.5	165.5	144.1	125.6	107.2	93.1	85.0	82.8	83.5
37.5°	2534.6	1720.9	266.1	150.8	130.8	110.2	89.5	76.2	70.9	70.9	71.7
40°	2663.2	1720.1	213.6	140.4	119.0	95.4	74.0	64.4	61.4	62.9	63.6
42.5°	2851.0	1759.2	186.3	130.8	108.6	81.3	61.4	54.7	54.0	55.4	56.2
45°	3107.5	1830.9	171.5	122.7	97.6	68.0	51.8	47.3	47.3	49.5	50.3
47.5°	3421.7	1935.8	159.0	114.6	86.6	57.0	44.4	41.4	42.2	44.4	45.2
50°	3800.0	2068.2	146.4	105.7	78.3	47.3	38.5	36.2	36.9	39.9	40.7
52.5°	4231.1	2246.4	136.0	97.6	68.0	39.3	32.6	31.0	32.6	35.5	36.2
55°	4600.6	2406.0	123.5	90.9	54.7	32.6	26.7	26.7	28.1	31.8	32.6
57.5°	4956.1	2573.0	112.3	78.3	42.8	25.9	22.2	23.0	25.1	28.9	29.6
60°	5478.0	2856.1	99.1	65.8	32.6	20.6	18.5	19.2	22.2	25.9	26.7
62.5°	6364.3	3287.1	85.8	54.7	25.1	16.3	14.7	16.3	20.0	24.4	25.1
65°	7164.0	3462.3	70.3	45.8	19.2	12.6	12.6	14.7	19.2	23.6	24.4
67.5°	6718.4	2914.6	54.7	36.2	14.7	9.7	10.4	14.1	18.5	23.6	24.4
69°	5941.4	2383.1	46.6	28.9	12.6	8.8	9.7	14.1	18.5	23.0	23.6
70°	5336.1	2012.0	41.4	24.4	11.0	8.8	9.7	13.3	18.5	23.0	23.6
72.5°	3573.9	1086.6	33.3	17.7	10.4	8.0	8.0	13.3	17.7	22.2	23.0
75°	1535.9	300.1	26.7	12.6	8.8	7.4	7.4	12.6	17.1	21.5	23.0
77.5°	280.9	76.2	21.5	11.0	8.8	7.4	6.7	11.8	16.3	20.6	21.5
80°	111.7	37.7	17.1	9.7	8.0	6.7	5.9	11.0	15.6	20.0	20.6
82.5°	67.3	21.5	14.1	8.8	8.0	5.9	5.1	9.7	14.7	19.2	20.0
85°	54.7	14.7	11.0	8.8	7.4	5.9	4.5	8.8	13.3	18.5	19.2
87.5°	26.7	10.4	10.4	8.0	7.4	5.9	4.5	8.0	12.6	17.7	18.5
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)