

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: P269229

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 13959.6 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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

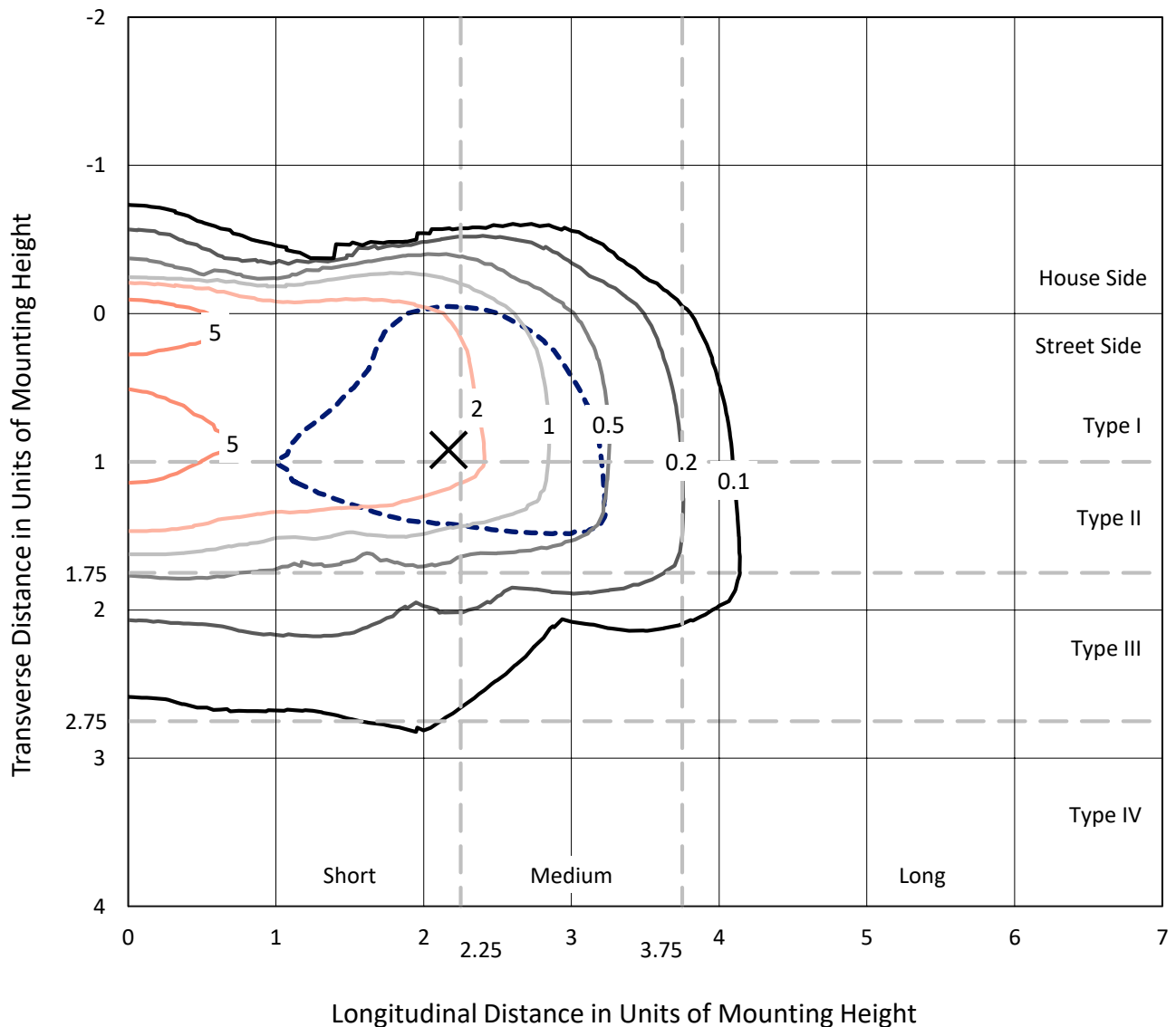


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

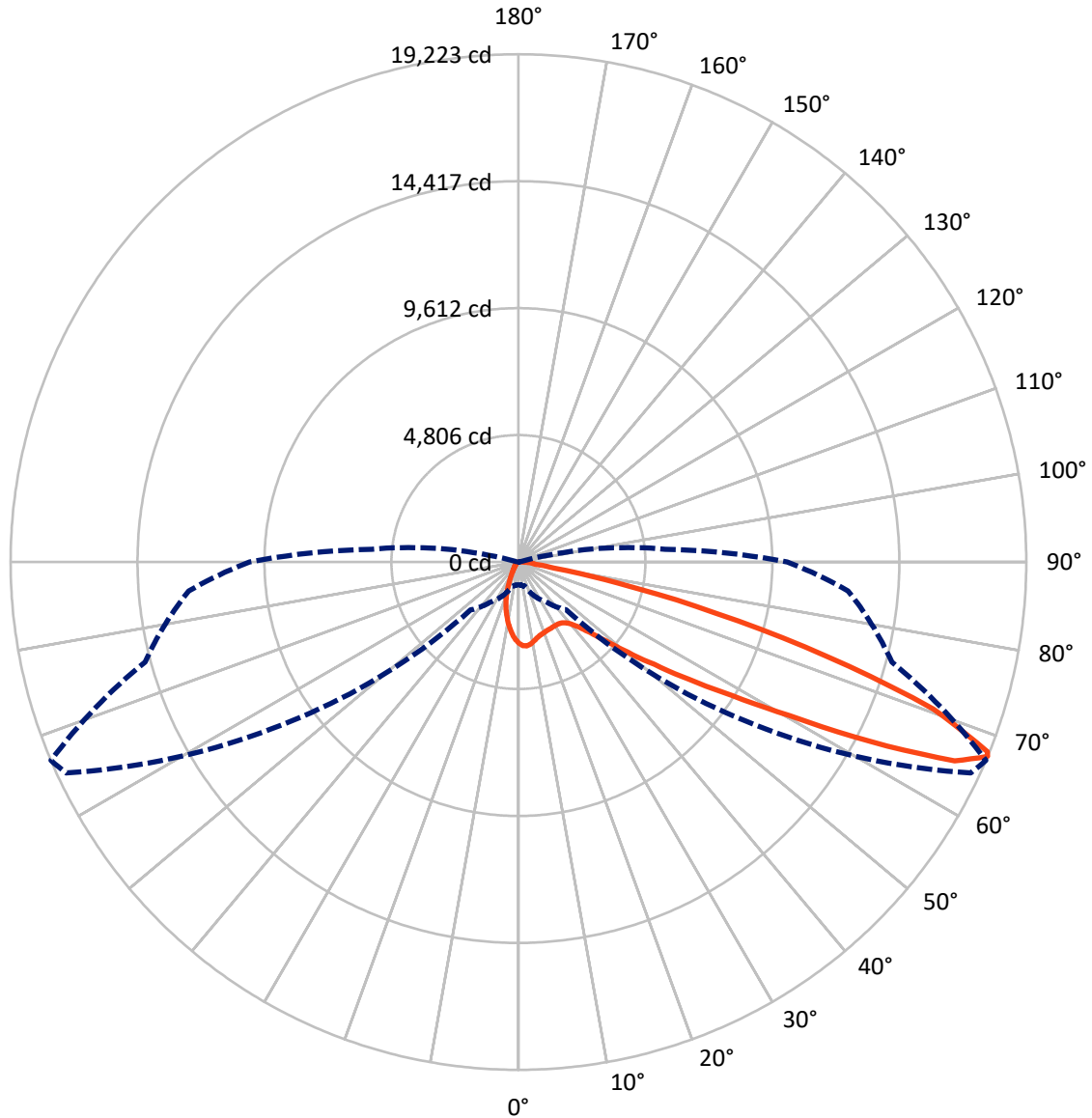


Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1449.4	0.0	1449.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12510.2	0.0	12510.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	13959.6	0.0	13959.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.8
10°-20°	533.2	3.8
20°-30°	775.2	5.6
30°-40°	1209.3	8.7
40°-50°	2142.2	15.3
50°-60°	3389.8	24.3
60°-70°	3882.6	27.8
70°-80°	1610.5	11.5
80°-90°	166.4	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°	13959.6	100.0
0°-180°	13959.6	100.0

Coefficient of Utilization



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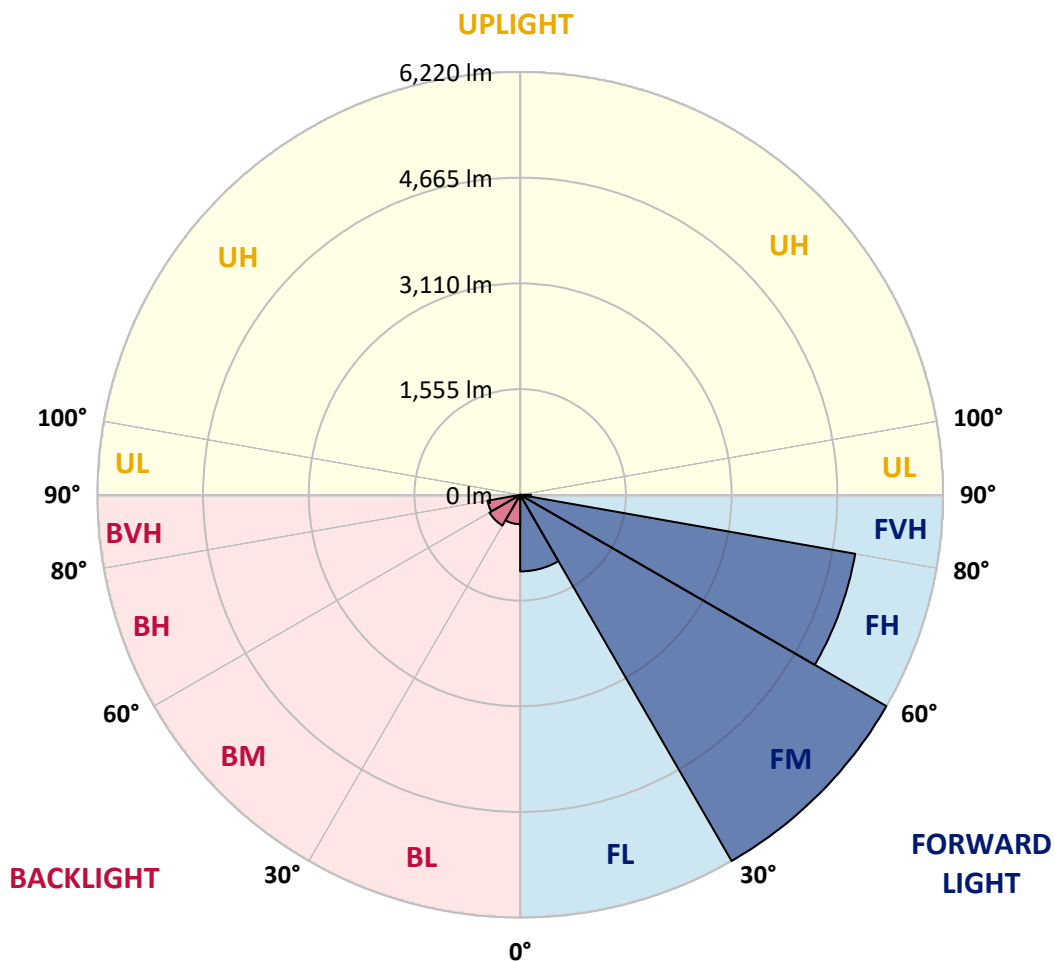
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1126.3	8.1			
FM	(30°-60°)	6220.4	44.6			
FH	(60°-80°)	5004.6	35.9			G3/7500
FVH	(80°-90°)	158.9	1.1			G2/225
BL	(0°-30°)	432.5	3.1	B1/500		
BM	(30°-60°)	520.9	3.7	B1/1000		
BH	(60°-80°)	488.5	3.5	B1/500		G1/500
BVH	(80°-90°)	7.5	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6
2.5°	3182.9	3189.3	3188.5	3193.5	3204.9	3205.6	3194.3	3172.3	3167.3	3138.9	3089.2
5°	2935.3	2954.0	2965.5	3011.8	3063.9	3126.6	3173.9	3191.0	3188.5	3168.2	3093.3
7.5°	2652.8	2671.5	2684.6	2739.1	2808.3	2915.8	3038.6	3139.7	3148.6	3170.6	3090.0
10°	2464.7	2468.0	2485.9	2537.9	2610.5	2720.3	2866.9	3043.5	3070.4	3151.1	3081.8
12.5°	2310.0	2312.3	2336.0	2392.1	2469.6	2580.3	2734.3	2938.5	2980.0	3126.6	3080.3
15°	2200.0	2209.0	2230.2	2288.8	2371.0	2480.9	2639.0	2861.2	2910.9	3117.7	3094.9
17.5°	2163.4	2173.2	2179.6	2222.0	2297.0	2404.5	2566.5	2810.7	2866.9	3122.6	3123.3
20°	2201.7	2209.0	2194.4	2204.9	2251.3	2347.5	2505.5	2767.6	2834.3	3128.3	3160.1
22.5°	2344.1	2347.5	2307.6	2261.2	2252.9	2305.9	2457.4	2733.4	2805.0	3143.8	3203.1
25°	2588.5	2582.7	2517.6	2417.5	2322.9	2298.6	2428.8	2712.3	2790.3	3160.1	3248.0
27.5°	2883.2	2891.4	2801.8	2656.0	2476.1	2347.5	2424.7	2703.3	2783.8	3171.5	3287.1
30°	3241.4	3252.9	3150.3	2967.0	2709.0	2468.0	2462.3	2701.7	2779.7	3164.1	3290.3
32.5°	3607.1	3620.9	3540.3	3351.3	3020.0	2669.9	2547.0	2719.4	2787.9	3138.9	3271.5
35°	3989.7	4009.2	3955.5	3793.5	3441.8	2961.4	2696.0	2774.1	2826.2	3136.4	3252.9
37.5°	4518.1	4536.1	4435.1	4263.4	3952.4	3352.1	2935.3	2876.7	2916.5	3175.5	3257.8
40°	5307.1	5304.8	5044.2	4781.1	4513.3	3848.9	3271.5	3062.3	3082.7	3293.5	3318.0
42.5°	6167.0	6162.9	5777.8	5378.1	5136.1	4460.4	3713.8	3383.1	3369.4	3510.9	3474.4
45°	6829.8	6828.9	6514.7	6064.4	5886.1	5162.2	4285.4	3829.4	3808.2	3864.4	3762.6
47.5°	7112.3	7117.2	6959.2	6642.4	6717.4	6111.6	5005.9	4475.9	4444.1	4421.3	4266.6
50°	6892.4	6902.2	6915.2	6853.3	7327.2	7387.5	5972.4	5387.0	5371.4	5269.6	5027.9
52.5°	6174.3	6223.9	6377.1	6573.3	7538.9	8612.1	7487.7	6518.7	6435.6	6327.4	6061.1
55°	4964.4	5018.9	5309.6	5786.0	7223.9	9416.7	9611.1	7977.8	7839.4	7516.2	7131.9
57.5°	3285.5	3370.1	3791.8	4397.7	6308.6	9546.1	11729.8	10002.8	9520.7	8635.8	8202.6
60°	1810.1	1891.4	2349.1	2897.8	4556.5	8906.1	13154.7	12639.3	11787.6	9887.3	9502.9
62.5°	1114.6	1158.6	1496.5	2007.2	2732.6	7029.2	13449.5	15952.5	14966.4	11498.6	11073.5
65°	887.5	906.2	1071.5	1640.7	1959.1	4181.2	12497.6	18478.1	18149.3	13449.5	12479.8
67°	861.5	868.8	947.0	1408.6	1846.6	2563.3	10470.3	18889.4	19223.2	14630.2	12523.7
67.5°	867.1	875.3	949.4	1344.4	1843.4	2355.5	9771.7	18727.3	19149.1	14723.8	12329.1
70°	836.2	861.5	1086.9	1343.4	1753.0	1957.3	5851.9	16226.1	16664.8	13680.6	10461.2
72.5°	296.4	298.0	469.9	1086.9	1906.2	1978.5	2938.5	11895.0	12220.1	10465.3	7542.2
75°	175.9	149.7	156.3	309.3	1821.5	1921.6	1695.2	7600.9	7722.2	5996.8	3819.6
77.5°	121.4	105.8	109.1	136.8	693.8	1894.7	1346.6	3963.7	3834.2	2103.1	813.4
80°	69.2	61.1	65.1	119.7	252.5	1767.7	1270.3	1607.2	1370.4	356.6	224.8
82.5°	36.7	30.9	37.5	98.5	175.9	1101.6	1272.7	776.8	615.6	120.6	153.2
85°	13.0	10.6	18.0	67.6	117.3	337.9	1179.8	653.0	512.9	58.6	116.4
87.5°	2.4	2.4	7.4	27.7	47.3	103.5	697.9	387.6	259.7	35.0	79.8
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°	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6	3078.6
2.5°	3068.8	3033.8	2986.7	2928.8	2860.5	2800.1	2755.3	2709.0	2699.1	2682.9	2680.5
5°	3048.5	2988.2	2871.1	2736.6	2593.3	2464.0	2358.8	2265.2	2223.7	2187.8	2183.8
7.5°	3018.3	2927.9	2728.5	2511.9	2288.1	2084.4	1911.9	1789.7	1677.3	1623.5	1615.4
10°	2983.4	2853.8	2568.1	2267.6	1958.2	1670.8	1414.3	1199.3	1069.2	991.6	981.9
12.5°	2950.8	2781.4	2404.5	2014.4	1603.2	1218.9	889.1	684.0	547.2	491.8	485.3
15°	2935.3	2722.9	2251.3	1755.5	1231.9	776.0	486.2	376.2	331.4	318.4	317.6
17.5°	2933.7	2673.1	2101.6	1487.7	863.1	451.0	316.7	289.1	280.1	276.9	276.9
20°	2932.8	2625.8	1951.7	1209.9	548.0	300.5	263.8	257.4	250.7	246.8	246.8
22.5°	2941.8	2583.5	1795.4	926.6	345.2	243.4	232.0	225.6	217.4	211.7	210.9
25°	2950.8	2550.9	1635.9	659.5	250.0	211.7	200.3	191.3	179.9	172.7	171.8
27.5°	2952.4	2510.3	1464.7	441.2	209.2	184.8	170.1	156.3	143.3	136.0	135.1
30°	2927.9	2442.0	1275.1	298.0	184.8	160.3	140.9	126.2	113.9	108.2	108.2
32.5°	2880.0	2357.2	1066.6	224.8	164.5	137.6	116.4	102.5	94.4	91.9	91.2
35°	2836.8	2266.1	852.5	190.5	147.4	116.4	95.3	86.2	81.4	80.6	79.8
37.5°	2811.5	2192.8	651.5	172.7	131.2	97.7	80.6	74.1	71.7	70.0	70.8
40°	2831.1	2131.7	481.2	157.9	114.9	81.4	68.5	65.1	62.7	61.9	61.9
42.5°	2916.5	2121.1	357.4	144.9	99.4	67.6	59.5	57.0	55.3	54.5	55.3
45°	3141.4	2186.3	277.7	132.7	83.8	57.0	50.5	49.6	48.9	48.9	48.9
47.5°	3479.2	2320.5	231.3	118.8	70.0	48.9	43.9	43.2	42.3	43.2	43.2
50°	4051.6	2566.5	206.8	105.0	57.9	41.5	37.5	37.5	37.5	37.5	38.3
52.5°	4922.1	3050.1	190.5	91.2	47.3	35.0	31.8	31.8	32.6	32.6	33.3
55°	5891.8	3691.8	175.9	77.3	40.0	29.4	26.1	26.9	27.7	28.4	28.4
57.5°	6943.8	4402.6	163.6	63.5	34.1	23.6	22.0	22.7	23.6	25.2	25.2
60°	8213.2	5172.0	145.7	49.6	28.4	18.8	17.1	18.8	21.2	22.7	23.6
62.5°	9607.2	5916.1	123.0	39.0	23.6	14.6	13.8	17.1	20.3	22.0	22.7
65°	10559.8	6149.8	94.4	31.8	18.0	10.6	11.4	15.5	19.6	22.0	22.0
67°	10173.8	5575.9	77.3	26.9	14.6	8.2	10.6	15.5	19.6	21.2	22.0
67.5°	9905.9	5351.2	74.1	26.1	13.8	8.2	10.6	15.5	19.6	22.0	22.0
70°	8060.1	4019.8	61.9	19.6	11.4	7.4	9.0	14.6	18.8	21.2	21.2
72.5°	5600.4	2478.6	55.3	13.8	9.8	6.5	8.2	13.8	18.0	20.3	21.2
75°	2662.5	897.2	47.3	10.6	9.0	5.7	7.4	13.8	18.0	20.3	20.3
77.5°	543.0	208.4	38.3	9.0	7.4	5.7	6.5	13.0	17.1	19.6	19.6
80°	178.4	80.6	28.4	8.2	7.4	5.7	6.5	12.1	17.1	18.8	19.6
82.5°	128.6	40.8	18.8	8.2	7.4	5.7	5.7	12.1	16.3	18.8	18.8
85°	98.5	28.4	12.1	8.2	7.4	5.7	5.7	11.4	15.5	18.0	18.0
87.5°	65.1	11.4	9.8	8.2	7.4	5.7	5.7	11.4	14.6	17.1	18.0
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)