

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: P191033

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191033
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-05-LED-E1-SL2-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 16608.6 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

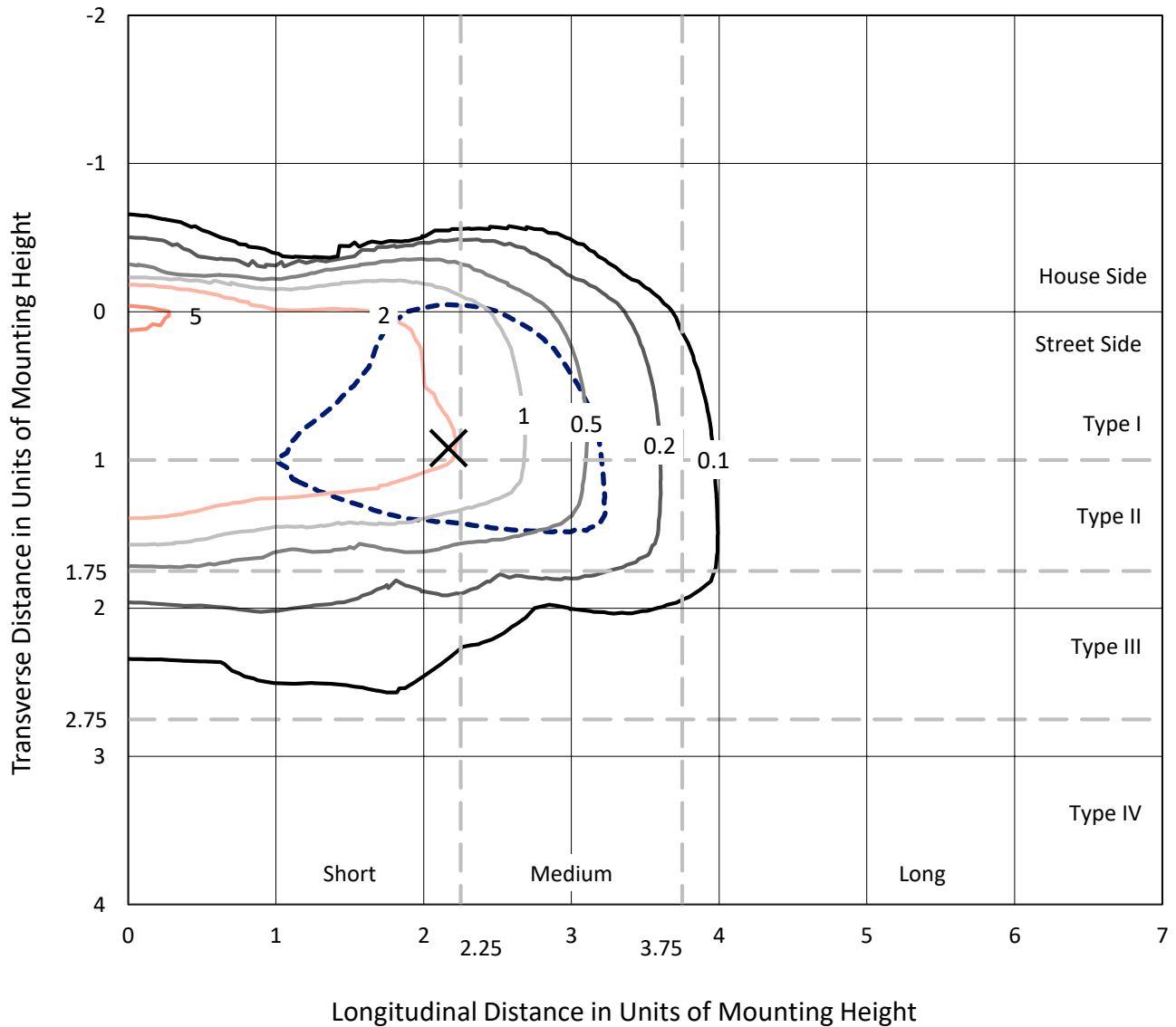


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Iso-Footcandle Lines of Horizontal Illumination

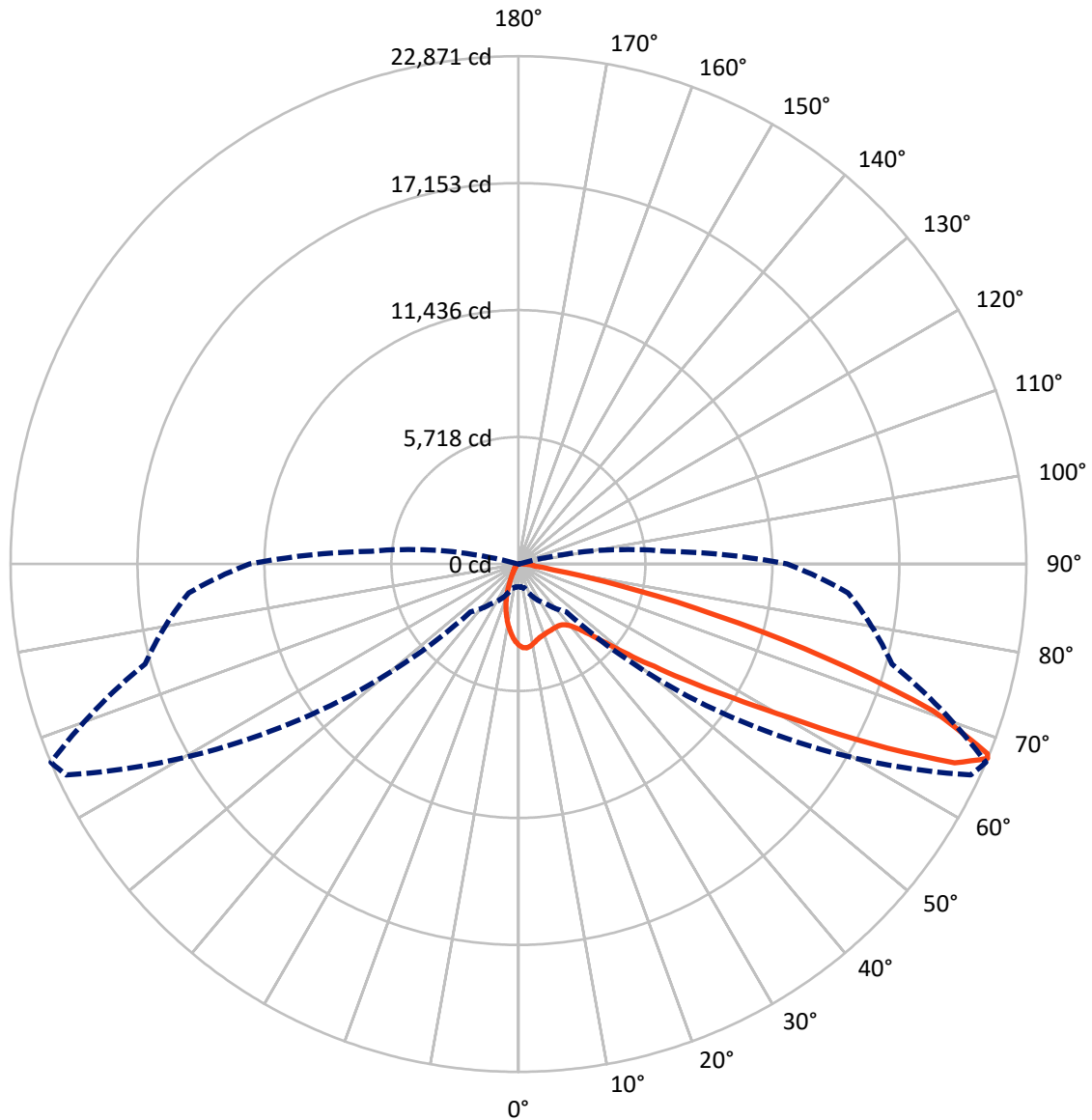
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1724.5	0.0	1724.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14884.2	0.0	14884.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	16608.6	0.0	16608.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	1.8
10°-20°	634.3	3.8
20°-30°	922.3	5.6
30°-40°	1438.8	8.7
40°-50°	2548.7	15.3
50°-60°	4033.1	24.3
60°-70°	4619.4	27.8
70°-80°	1916.1	11.5
80°-90°	197.9	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°	16608.6	100.0
0°-180°	16608.6	100.0

Coefficient of Utilization



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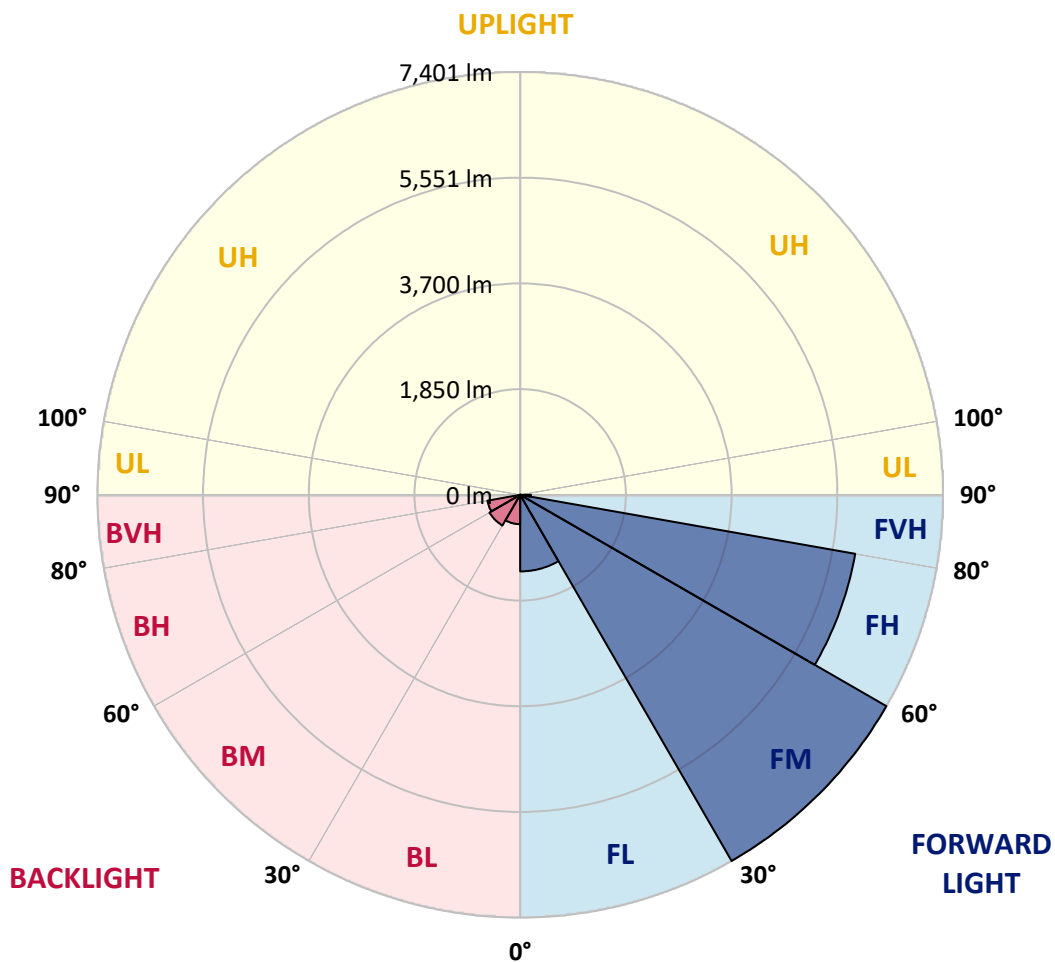
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1340.1	8.1			
FM (30°-60°)	7400.8	44.6			
FH (60°-80°)	5954.2	35.9			G3/7500
FVH (80°-90°)	189.0	1.1			G2/225
BL (0°-30°)	514.6	3.1	B2/1000		
BM (30°-60°)	619.8	3.7	B1/1000		
BH (60°-80°)	581.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8
2.5°	3786.9	3794.5	3793.6	3799.4	3812.9	3814.0	3800.4	3774.2	3768.4	3734.5	3675.4
5°	3492.4	3514.6	3528.2	3583.4	3645.4	3720.0	3776.1	3796.5	3793.6	3769.4	3680.3
7.5°	3156.2	3178.4	3194.0	3258.8	3341.2	3469.0	3615.3	3735.5	3746.1	3772.2	3676.4
10°	2932.4	2936.3	2957.6	3019.5	3105.8	3236.6	3410.9	3621.1	3653.2	3749.0	3666.7
12.5°	2748.4	2751.2	2779.4	2846.2	2938.2	3070.0	3253.1	3496.2	3545.5	3720.0	3664.7
15°	2617.5	2628.2	2653.4	2723.1	2821.0	2951.7	3139.7	3404.2	3463.3	3709.3	3682.2
17.5°	2573.9	2585.6	2593.3	2643.7	2732.8	2860.7	3053.5	3344.1	3410.9	3715.2	3716.1
20°	2619.5	2628.2	2610.8	2623.4	2678.6	2792.9	2980.8	3292.8	3372.2	3721.9	3759.7
22.5°	2789.0	2792.9	2745.4	2690.2	2680.5	2743.5	2923.7	3252.1	3337.3	3740.3	3811.0
25°	3079.6	3072.8	2995.3	2876.2	2763.8	2734.8	2889.7	3226.9	3319.9	3759.7	3864.3
27.5°	3430.4	3440.0	3333.5	3160.0	2946.0	2792.9	2884.9	3216.3	3312.1	3773.3	3910.8
30°	3856.5	3870.1	3748.1	3530.1	3223.0	2936.3	2929.5	3214.3	3307.3	3764.6	3914.7
32.5°	4291.5	4308.0	4212.1	3987.4	3593.1	3176.5	3030.2	3235.6	3317.0	3734.5	3892.4
35°	4746.8	4770.1	4706.2	4513.4	4094.9	3523.3	3207.5	3300.6	3362.5	3731.6	3870.1
37.5°	5375.5	5396.9	5276.8	5072.3	4702.3	3988.3	3492.4	3422.6	3470.1	3778.1	3876.0
40°	6314.3	6311.4	6001.3	5688.4	5369.8	4579.2	3892.4	3643.4	3667.7	3918.5	3947.7
42.5°	7337.2	7332.4	6874.2	6398.6	6110.8	5306.8	4418.4	4025.1	4008.6	4177.2	4133.6
45°	8125.8	8124.9	7750.9	7215.2	7003.0	6141.8	5098.5	4556.0	4530.9	4597.7	4476.5
47.5°	8462.0	8467.8	8279.9	7903.0	7992.1	7271.3	5955.8	5325.2	5287.4	5260.3	5076.2
50°	8200.4	8212.0	8227.5	8153.9	8717.7	8789.4	7105.7	6409.2	6390.8	6269.7	5982.0
52.5°	7346.0	7405.0	7587.2	7820.7	8969.5	10246.4	8908.6	7755.7	7657.0	7528.1	7211.3
55°	5906.4	5971.4	6317.1	6883.8	8594.7	11203.5	11435.1	9491.8	9327.1	8942.4	8485.2
57.5°	3908.9	4009.7	4511.4	5232.2	7505.8	11357.5	13955.7	11901.0	11327.5	10274.5	9759.2
60°	2153.5	2250.4	2794.8	3447.8	5421.1	10596.1	15651.0	15037.8	14024.5	11763.4	11306.2
62.5°	1326.3	1378.5	1780.5	2388.0	3251.1	8363.1	16001.7	18979.6	17806.5	13680.5	13174.9
65°	1055.9	1078.2	1274.9	1952.0	2330.8	4974.5	14869.2	21984.6	21593.3	16001.7	14847.9
67°	1024.9	1033.7	1126.7	1675.9	2197.1	3049.6	12457.1	22473.8	22871.0	17406.3	14900.2
67.5°	1031.7	1041.4	1129.5	1599.4	2193.2	2802.6	11625.8	22281.1	22782.9	17517.7	14668.7
70°	994.9	1024.9	1293.3	1598.5	2085.7	2328.8	6962.3	19305.1	19827.2	16276.8	12446.4
72.5°	352.6	354.6	558.9	1293.3	2267.8	2354.0	3496.2	14152.3	14538.9	12451.3	8973.4
75°	209.3	178.2	186.0	368.2	2167.1	2286.2	2017.0	9043.2	9187.5	7134.8	4544.4
77.5°	144.3	125.9	129.8	162.8	825.4	2254.3	1602.4	4715.8	4561.8	2502.2	967.8
80°	82.3	72.6	77.5	142.4	300.3	2103.2	1511.2	1912.3	1630.4	424.3	267.4
82.5°	43.6	36.8	44.6	117.2	209.3	1310.7	1514.2	924.1	732.3	143.4	182.1
85°	15.5	12.6	21.3	80.4	139.5	402.0	1403.7	776.9	610.3	69.8	138.5
87.5°	2.9	2.9	8.7	32.9	56.2	123.1	830.2	461.1	309.0	41.6	94.9
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°	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8	3662.8
2.5°	3651.2	3609.6	3553.3	3484.6	3403.2	3331.5	3278.3	3223.0	3211.3	3192.0	3189.2
5°	3627.0	3555.3	3415.8	3256.0	3085.4	2931.4	2806.5	2695.1	2645.7	2603.0	2598.2
7.5°	3591.2	3483.6	3246.2	2988.6	2722.2	2479.9	2274.6	2129.3	1995.6	1931.6	1922.0
10°	3549.4	3395.5	3055.5	2697.9	2329.9	1987.9	1682.8	1426.9	1271.9	1180.0	1168.3
12.5°	3510.8	3309.2	2860.7	2396.7	1907.5	1450.2	1057.8	813.8	651.0	585.1	577.4
15°	3492.4	3239.5	2678.6	2088.6	1465.7	923.2	578.4	447.5	394.2	378.8	377.8
17.5°	3490.4	3180.4	2500.3	1769.9	1026.8	536.6	376.9	343.9	333.3	329.4	329.4
20°	3489.4	3124.2	2322.1	1439.6	651.9	357.4	313.8	306.2	298.4	293.5	293.5
22.5°	3500.0	3073.9	2136.1	1102.4	410.7	289.7	276.1	268.3	258.7	251.9	250.9
25°	3510.8	3035.1	1946.2	784.7	297.4	251.9	238.3	227.6	214.1	205.4	204.4
27.5°	3512.7	2986.6	1742.8	525.1	249.0	219.9	202.4	186.0	170.5	161.8	160.8
30°	3483.6	2905.3	1517.0	354.6	219.9	190.9	167.6	150.2	135.6	128.9	128.9
32.5°	3426.5	2804.5	1269.1	267.4	195.7	163.7	138.5	122.0	112.4	109.5	108.5
35°	3375.1	2696.0	1014.3	226.7	175.3	138.5	113.3	102.7	96.9	96.0	94.9
37.5°	3345.0	2608.8	775.0	205.4	156.0	116.2	96.0	88.2	85.2	83.3	84.3
40°	3368.3	2536.2	572.5	187.9	136.6	96.9	81.3	77.5	74.6	73.7	73.7
42.5°	3470.1	2523.6	425.2	172.5	118.2	80.4	70.7	67.8	65.9	64.9	65.9
45°	3737.5	2601.1	330.3	157.9	99.7	67.8	60.0	59.1	58.1	58.1	58.1
47.5°	4139.5	2760.9	275.2	141.5	83.3	58.1	52.3	51.4	50.3	51.4	51.4
50°	4820.5	3053.5	246.0	125.0	68.7	49.4	44.6	44.6	44.6	44.6	45.5
52.5°	5856.1	3628.9	226.7	108.5	56.2	41.6	37.7	37.7	38.8	38.8	39.7
55°	7009.9	4392.2	209.3	92.1	47.5	34.9	31.0	32.0	32.9	33.9	33.9
57.5°	8261.5	5238.0	194.7	75.6	40.7	28.1	26.2	27.1	28.1	30.1	30.1
60°	9771.7	6153.5	173.4	59.1	33.9	22.3	20.4	22.3	25.2	27.1	28.1
62.5°	11430.1	7038.9	146.3	46.5	28.1	17.4	16.5	20.4	24.2	26.2	27.1
65°	12563.6	7317.0	112.4	37.7	21.3	12.6	13.6	18.4	23.2	26.2	26.2
67°	12104.5	6633.9	92.1	32.0	17.4	9.7	12.6	18.4	23.2	25.2	26.2
67.5°	11785.7	6366.5	88.2	31.0	16.5	9.7	12.6	18.4	23.2	26.2	26.2
70°	9589.6	4782.7	73.7	23.2	13.6	8.7	10.6	17.4	22.3	25.2	25.2
72.5°	6663.0	2948.9	65.9	16.5	11.7	7.8	9.7	16.5	21.3	24.2	25.2
75°	3167.8	1067.6	56.2	12.6	10.6	6.8	8.7	16.5	21.3	24.2	24.2
77.5°	646.2	248.0	45.5	10.6	8.7	6.8	7.8	15.5	20.4	23.2	23.2
80°	212.2	96.0	33.9	9.7	8.7	6.8	7.8	14.5	20.4	22.3	23.2
82.5°	153.0	48.5	22.3	9.7	8.7	6.8	6.8	14.5	19.3	22.3	22.3
85°	117.2	33.9	14.5	9.7	8.7	6.8	6.8	13.6	18.4	21.3	21.3
87.5°	77.5	13.6	11.7	9.7	8.7	6.8	6.8	13.6	17.4	20.4	21.3
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)