

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: P191842

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191842
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-SL2-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 16068 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - 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

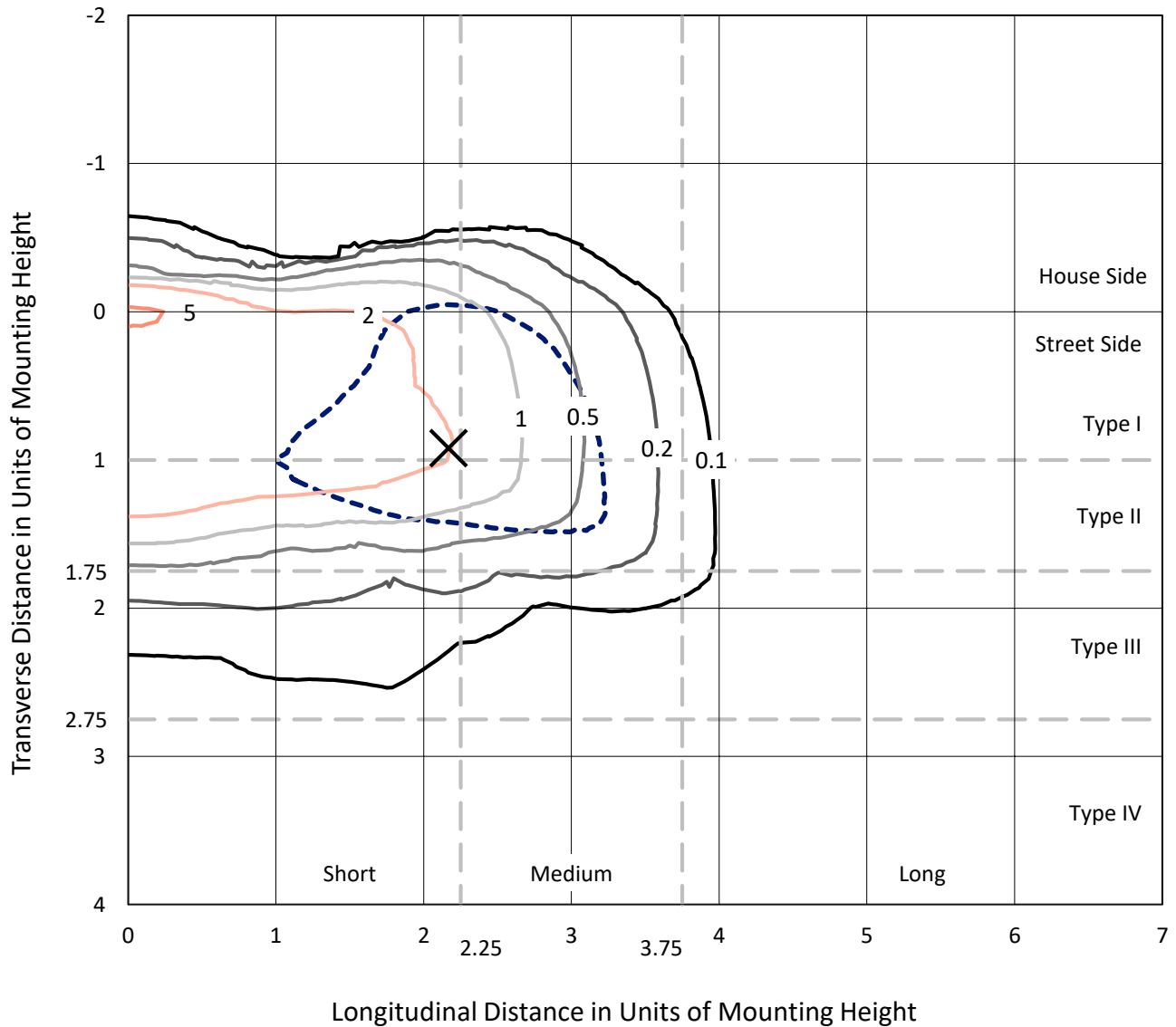


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

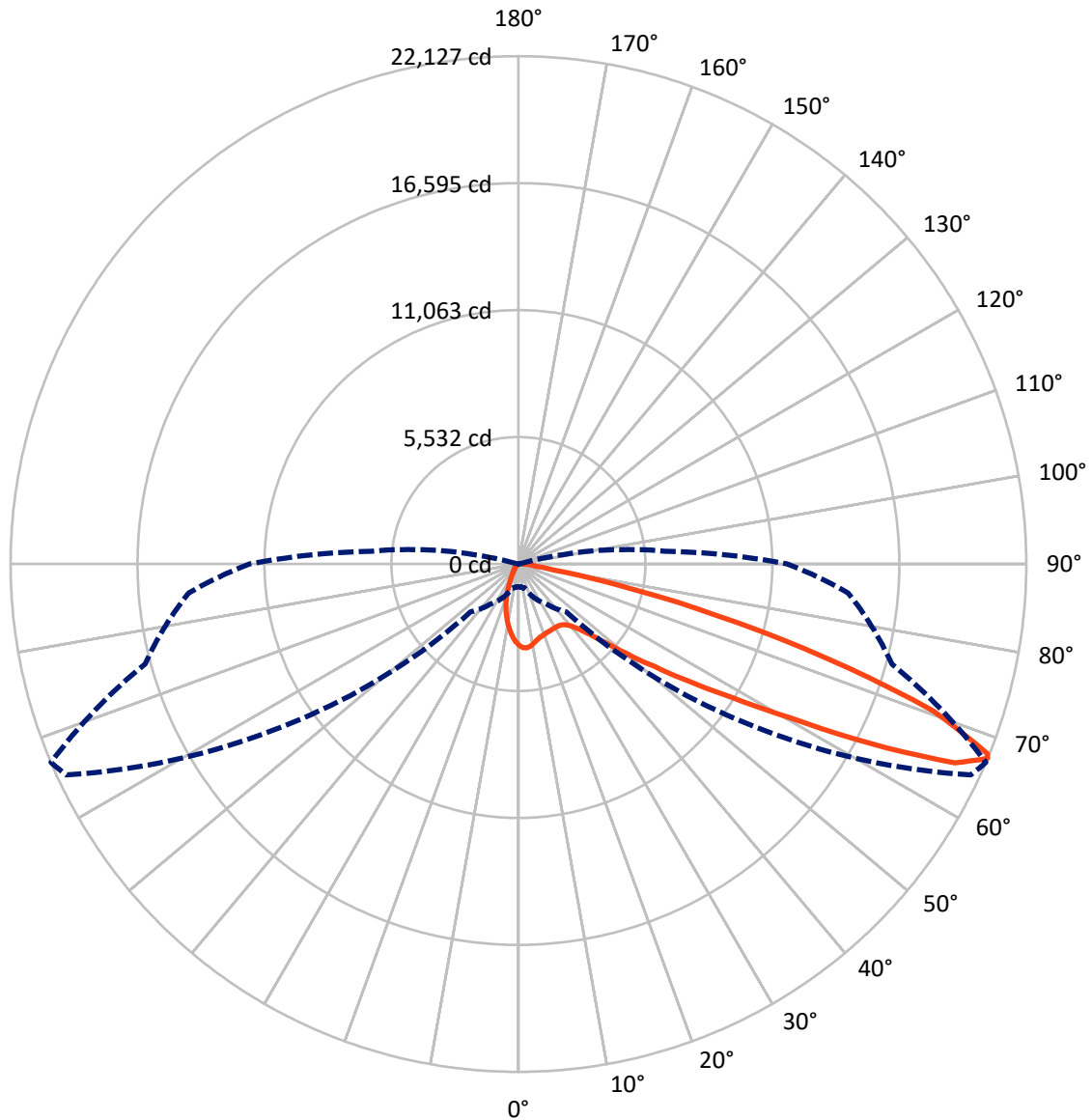


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Semi-Cutoff

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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	1668.3	0.0	1668.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14399.7	0.0	14399.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	16068.0	0.0	16068.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	1.8
10°-20°	613.7	3.8
20°-30°	892.3	5.6
30°-40°	1391.9	8.7
40°-50°	2465.8	15.3
50°-60°	3901.8	24.3
60°-70°	4469.0	27.8
70°-80°	1853.7	11.5
80°-90°	191.5	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°	16068.0	100.0
0°-180°	16068.0	100.0



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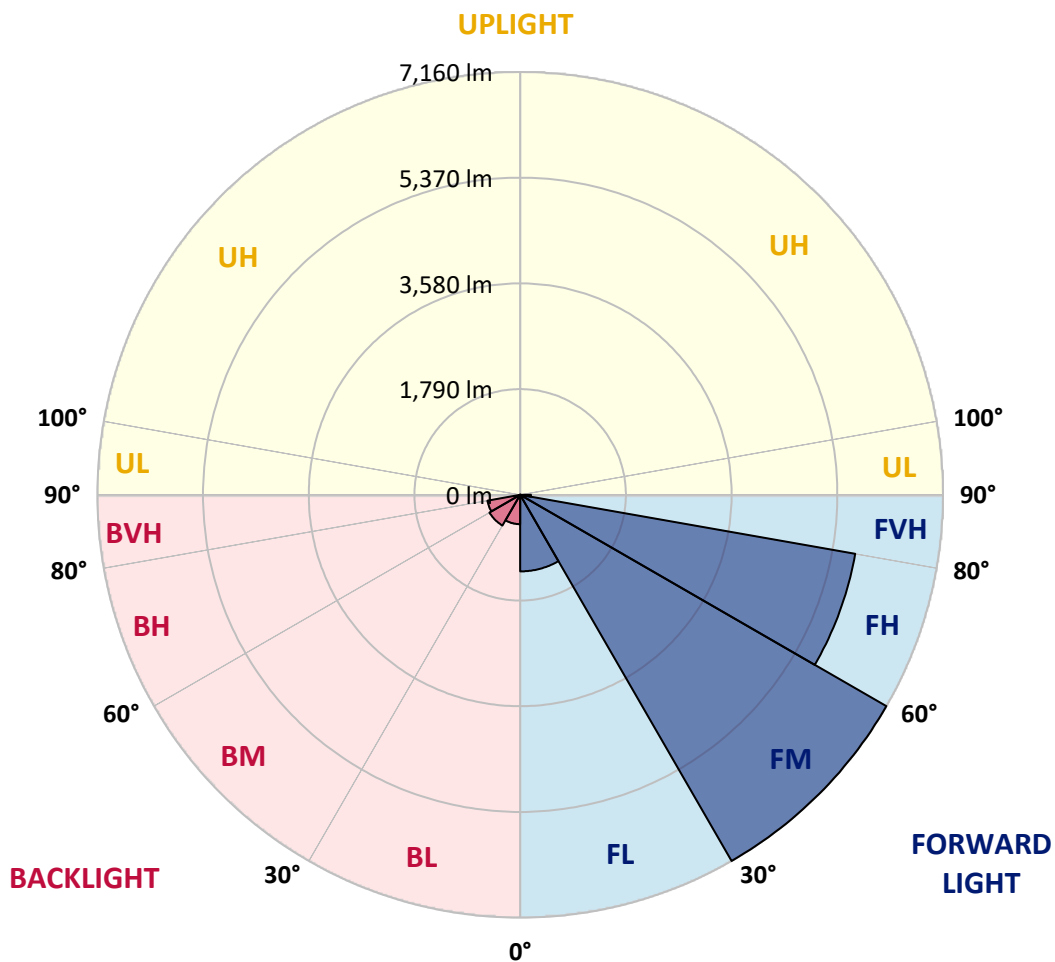
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.4	8.1			
FM (30°-60°)	7159.9	44.6			
FH (60°-80°)	5760.4	35.9			G3/7500
FVH (80°-90°)	182.9	1.1			G2/225
BL (0°-30°)	497.8	3.1	B1/500		
BM (30°-60°)	599.6	3.7	B1/1000		
BH (60°-80°)	562.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.6	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°	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6
2.5°	3663.6	3671.0	3670.1	3675.7	3688.9	3689.8	3676.7	3651.4	3645.7	3612.9	3555.8
5°	3378.6	3400.2	3413.3	3466.7	3526.7	3598.9	3653.2	3672.9	3670.1	3646.7	3560.5
7.5°	3053.4	3075.0	3090.0	3152.8	3232.4	3356.1	3497.7	3613.9	3624.2	3649.5	3556.7
10°	2836.9	2840.7	2861.3	2921.3	3004.7	3131.2	3299.9	3503.3	3534.2	3627.0	3547.3
12.5°	2658.9	2661.7	2688.9	2753.5	2842.6	2970.0	3147.1	3382.4	3430.2	3598.9	3545.5
15°	2532.3	2542.6	2567.0	2634.5	2729.2	2855.7	3037.5	3293.4	3350.5	3588.6	3562.3
17.5°	2490.2	2501.4	2508.9	2557.6	2643.9	2767.6	2954.1	3235.2	3299.9	3594.2	3595.1
20°	2534.2	2542.6	2525.8	2538.0	2591.4	2702.0	2883.8	3185.6	3262.4	3600.8	3637.3
22.5°	2698.2	2702.0	2656.1	2602.6	2593.3	2654.2	2828.5	3146.2	3228.7	3618.6	3687.0
25°	2979.4	2972.8	2897.9	2782.6	2673.9	2645.7	2795.7	3121.8	3211.8	3637.3	3738.5
27.5°	3318.7	3328.0	3224.9	3057.2	2850.1	2702.0	2791.0	3111.5	3204.3	3650.4	3783.5
30°	3731.0	3744.2	3626.1	3415.2	3118.1	2840.7	2834.1	3109.7	3199.6	3642.0	3787.3
32.5°	4151.8	4167.8	4075.0	3857.6	3476.1	3073.1	2931.6	3130.3	3209.0	3612.9	3765.7
35°	4592.3	4614.8	4553.0	4366.5	3961.6	3408.6	3103.1	3193.1	3253.1	3610.1	3744.2
37.5°	5200.6	5221.2	5105.0	4907.2	4549.2	3858.5	3378.6	3311.2	3357.1	3655.1	3749.8
40°	6108.7	6105.9	5806.0	5503.3	5194.9	4430.2	3765.7	3524.8	3548.3	3791.0	3819.1
42.5°	7098.4	7093.7	6650.4	6190.3	5911.9	5134.0	4274.6	3894.1	3878.2	4041.2	3999.1
45°	7861.3	7860.4	7498.6	6980.3	6775.1	5941.9	4932.5	4407.7	4383.3	4448.0	4330.8
47.5°	8186.5	8192.1	8010.3	7645.8	7732.0	7034.7	5762.0	5151.8	5115.3	5089.0	4911.0
50°	7933.5	7944.7	7959.7	7888.5	8433.9	8503.3	6874.4	6200.6	6182.8	6065.6	5787.3
52.5°	7106.9	7164.0	7340.2	7566.1	8677.6	9912.9	8618.6	7503.3	7407.7	7283.1	6976.6
55°	5714.2	5777.0	6111.5	6659.8	8314.9	10838.8	11062.8	9182.8	9023.4	8651.4	8209.0
57.5°	3781.6	3879.1	4364.6	5061.9	7261.5	10987.8	13501.4	11513.6	10958.8	9940.0	9441.4
60°	2083.4	2177.1	2703.8	3335.5	5244.6	10251.2	15141.5	14548.3	13568.0	11380.5	10938.2
62.5°	1283.0	1333.6	1722.6	2310.2	3145.3	8090.9	15480.8	18361.8	17226.8	13235.3	12746.0
65°	1021.6	1043.1	1233.4	1888.5	2254.9	4812.6	14385.2	21269.0	20890.4	15480.8	14364.6
67°	991.6	1000.0	1090.0	1621.4	2125.6	2950.3	12051.6	21742.3	22126.6	16839.8	14415.2
67.5°	998.1	1007.5	1092.8	1547.3	2121.8	2711.3	11247.4	21555.8	22041.3	16947.6	14191.2
70°	962.5	991.6	1251.2	1546.4	2017.8	2253.1	6735.7	18676.7	19181.9	15747.0	12041.3
72.5°	341.1	343.0	540.8	1251.2	2194.0	2277.4	3382.4	13691.7	14065.6	12045.9	8681.4
75°	202.4	172.4	179.9	356.1	2096.5	2211.8	1951.3	8748.8	8888.5	6902.5	4396.4
77.5°	139.6	121.8	125.6	157.5	798.5	2180.9	1550.1	4562.3	4413.3	2420.8	936.3
80°	79.7	70.3	75.0	137.8	290.5	2034.7	1462.0	1850.1	1577.3	410.5	258.7
82.5°	42.2	35.6	43.1	113.4	202.4	1268.0	1464.9	894.1	708.5	138.7	176.2
85°	15.0	12.2	20.6	77.8	135.0	388.9	1358.0	751.6	590.4	67.5	134.0
87.5°	2.8	2.8	8.4	31.9	54.4	119.0	803.2	446.1	299.0	40.3	91.8
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°	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6	3543.6
2.5°	3532.3	3492.0	3437.7	3371.1	3292.4	3223.1	3171.5	3118.1	3106.8	3088.1	3085.3
5°	3508.9	3439.6	3304.6	3150.0	2985.0	2836.0	2715.1	2607.3	2559.5	2518.3	2513.6
7.5°	3474.2	3370.2	3140.6	2891.3	2633.6	2399.3	2200.6	2060.0	1930.7	1868.8	1859.4
10°	3433.9	3284.9	2956.0	2610.1	2254.0	1923.2	1627.9	1380.5	1230.6	1141.5	1130.3
12.5°	3396.4	3201.5	2767.6	2318.7	1845.4	1403.0	1023.4	787.3	629.8	566.1	558.6
15°	3378.6	3134.0	2591.4	2020.6	1418.0	893.2	559.5	433.0	381.4	366.4	365.5
17.5°	3376.8	3076.9	2418.9	1712.3	993.4	519.2	364.6	332.7	322.4	318.7	318.7
20°	3375.8	3022.5	2246.5	1392.7	630.7	345.8	303.7	296.2	288.7	284.0	284.0
22.5°	3386.1	2973.8	2066.5	1066.5	397.4	280.2	267.1	259.6	250.2	243.7	242.7
25°	3396.4	2936.3	1882.9	759.1	287.7	243.7	230.6	220.2	207.1	198.7	197.8
27.5°	3398.3	2889.4	1686.0	508.0	240.9	212.7	195.9	179.9	164.9	156.5	155.6
30°	3370.2	2810.7	1467.7	343.0	212.7	184.6	162.1	145.3	131.2	124.6	124.6
32.5°	3314.9	2713.2	1227.7	258.7	189.3	158.4	134.0	118.1	108.7	105.9	105.0
35°	3265.2	2608.3	981.3	219.3	169.6	134.0	109.7	99.3	93.7	92.8	91.8
37.5°	3236.2	2523.9	749.8	198.7	150.9	112.5	92.8	85.3	82.5	80.6	81.5
40°	3258.7	2453.6	553.9	181.8	132.1	93.7	78.7	75.0	72.2	71.2	71.2
42.5°	3357.1	2441.4	411.4	166.8	114.3	77.8	68.4	65.6	63.7	62.8	63.7
45°	3615.8	2516.4	319.6	152.8	96.5	65.6	58.1	57.2	56.2	56.2	56.2
47.5°	4004.7	2671.0	266.2	136.8	80.6	56.2	50.6	49.7	48.7	49.7	49.7
50°	4663.6	2954.1	238.1	120.9	66.5	47.8	43.1	43.1	43.1	43.1	44.0
52.5°	5665.4	3510.8	219.3	105.0	54.4	40.3	36.6	36.6	37.5	37.5	38.4
55°	6781.6	4249.3	202.4	89.0	45.9	33.7	30.0	30.9	31.9	32.8	32.8
57.5°	7992.5	5067.5	188.4	73.1	39.4	27.2	25.3	26.2	27.2	29.1	29.1
60°	9453.6	5953.2	167.8	57.2	32.8	21.6	19.7	21.6	24.4	26.2	27.2
62.5°	11058.1	6809.8	141.5	45.0	27.2	16.9	15.9	19.7	23.4	25.3	26.2
65°	12154.7	7078.7	108.7	36.6	20.6	12.2	13.1	17.8	22.5	25.3	25.3
67°	11710.4	6418.0	89.0	30.9	16.9	9.4	12.2	17.8	22.5	24.4	25.3
67.5°	11402.1	6159.3	85.3	30.0	15.9	9.4	12.2	17.8	22.5	25.3	25.3
70°	9277.4	4627.0	71.2	22.5	13.1	8.4	10.3	16.9	21.6	24.4	24.4
72.5°	6446.1	2852.9	63.7	15.9	11.2	7.5	9.4	15.9	20.6	23.4	24.4
75°	3064.7	1032.8	54.4	12.2	10.3	6.6	8.4	15.9	20.6	23.4	23.4
77.5°	625.1	239.9	44.0	10.3	8.4	6.6	7.5	15.0	19.7	22.5	22.5
80°	205.2	92.8	32.8	9.4	8.4	6.6	7.5	14.1	19.7	21.6	22.5
82.5°	148.1	46.9	21.6	9.4	8.4	6.6	6.6	14.1	18.7	21.6	21.6
85°	113.4	32.8	14.1	9.4	8.4	6.6	6.6	13.1	17.8	20.6	20.6
87.5°	75.0	13.1	11.2	9.4	8.4	6.6	6.6	13.1	16.9	19.7	20.6
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)