

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: P192791

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192791
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-03-LED-E1-SL2-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 14557.7 lumens
Efficiency: N/A
Efficacy: 87.7 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): 166
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

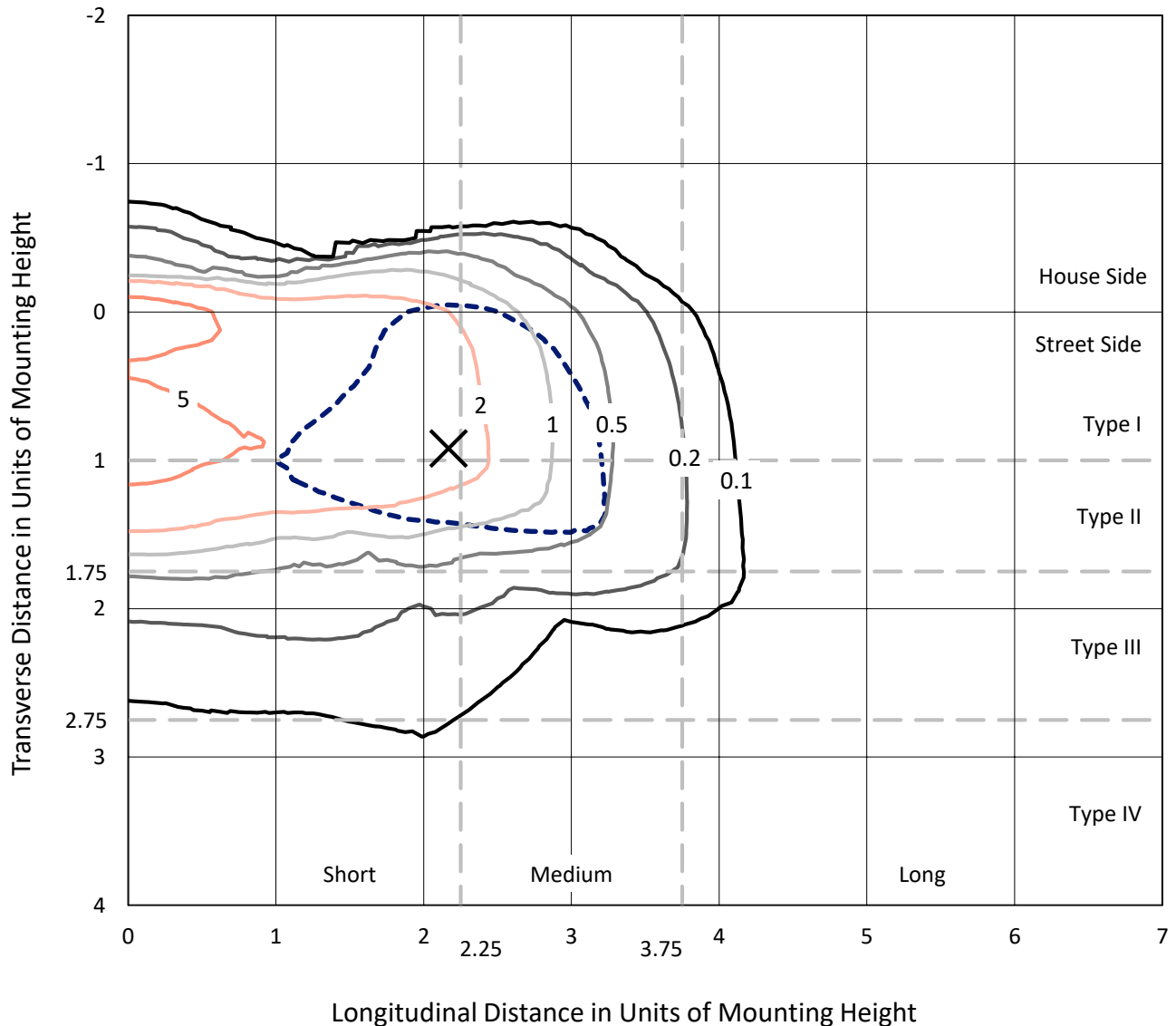


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

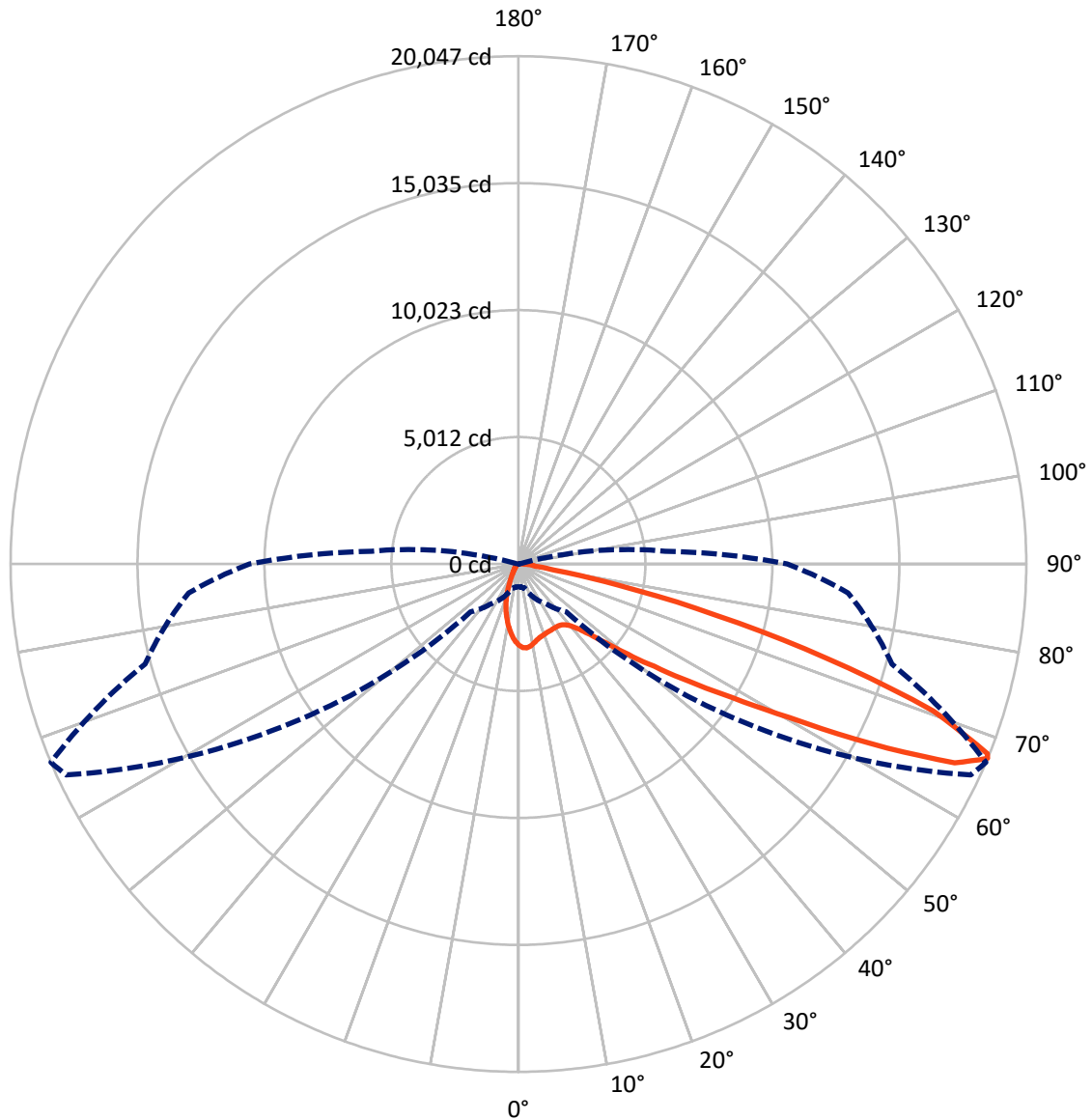


Based on 20 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Semi-Cutoff

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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	1511.5	0.0	1511.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13046.2	0.0	13046.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	14557.7	0.0	14557.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	1.8
10°-20°	556.0	3.8
20°-30°	808.4	5.6
30°-40°	1261.1	8.7
40°-50°	2234.0	15.3
50°-60°	3535.1	24.3
60°-70°	4048.9	27.8
70°-80°	1679.5	11.5
80°-90°	173.5	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°	14557.7	100.0
0°-180°	14557.7	100.0

Coefficient of Utilization



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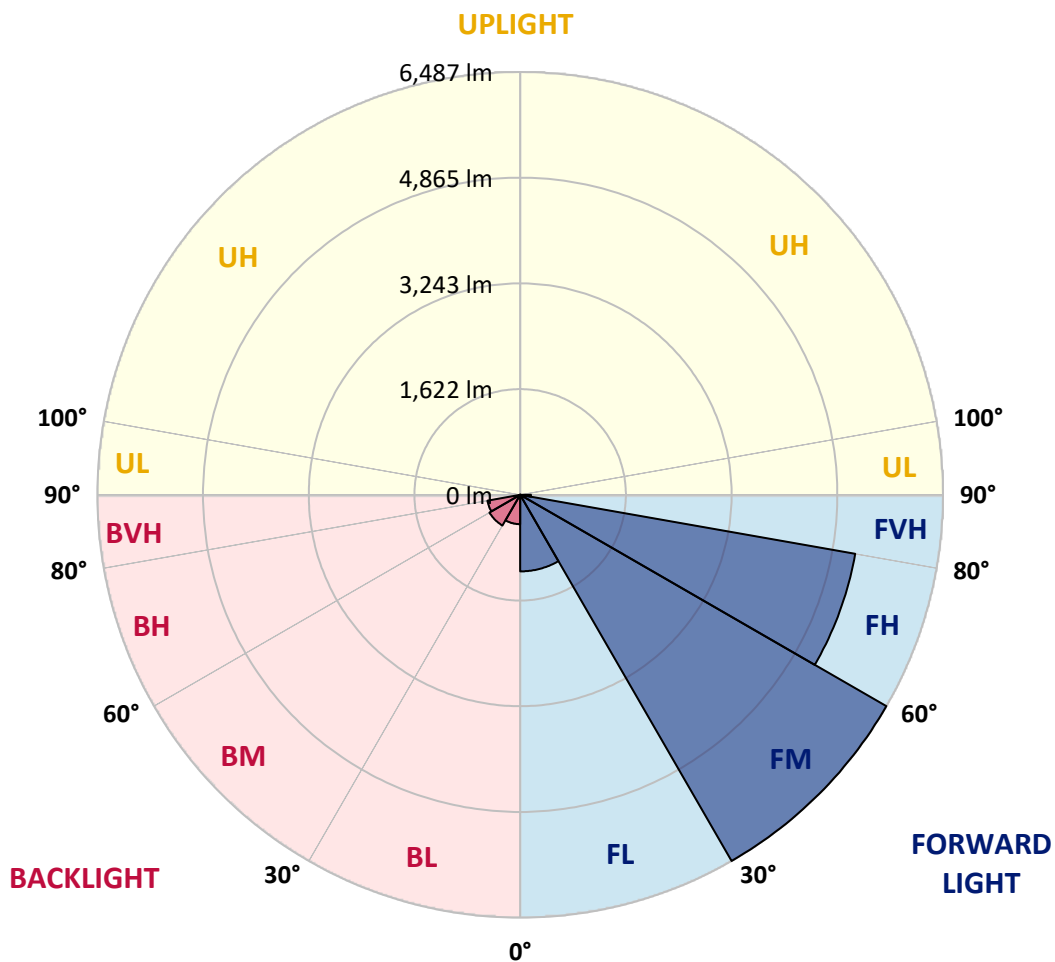
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.6	8.1			
FM (30°-60°)	6486.9	44.6			
FH (60°-80°)	5219.0	35.9			G3/7500
FVH (80°-90°)	165.7	1.1			G2/225
BL (0°-30°)	451.0	3.1	B1/500		
BM (30°-60°)	543.2	3.7	B1/1000		
BH (60°-80°)	509.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	7.8	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°	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5
2.5°	3319.2	3326.0	3325.2	3330.2	3342.1	3343.0	3331.1	3308.2	3303.0	3273.3	3221.5
5°	3061.1	3080.6	3092.5	3140.8	3195.2	3260.7	3309.9	3327.7	3325.2	3303.9	3225.8
7.5°	2766.5	2786.0	2799.5	2856.5	2928.5	3040.6	3168.9	3274.2	3283.6	3306.5	3222.4
10°	2570.4	2573.7	2592.4	2646.7	2722.3	2836.9	2989.8	3174.0	3202.1	3286.1	3213.9
12.5°	2408.9	2411.5	2436.2	2494.7	2575.3	2690.8	2851.3	3064.5	3107.8	3260.7	3212.2
15°	2294.3	2303.6	2325.7	2386.9	2472.6	2587.3	2752.0	2983.8	3035.5	3251.2	3227.5
17.5°	2256.1	2266.2	2273.1	2317.3	2395.4	2507.4	2676.5	2931.1	2989.8	3256.4	3257.2
20°	2296.0	2303.6	2288.3	2299.4	2347.8	2448.0	2612.7	2886.2	2955.8	3262.3	3295.4
22.5°	2444.5	2448.0	2406.4	2358.1	2349.5	2404.7	2562.6	2850.5	2925.2	3278.5	3340.4
25°	2699.4	2693.3	2625.5	2521.0	2422.5	2397.0	2532.9	2828.4	2909.9	3295.4	3387.1
27.5°	3006.7	3015.2	2921.8	2769.8	2582.2	2448.0	2528.7	2819.1	2903.1	3307.3	3427.9
30°	3380.4	3392.2	3285.2	3094.2	2825.0	2573.7	2567.7	2817.4	2898.8	3299.6	3431.3
32.5°	3761.6	3776.0	3692.0	3494.9	3149.4	2784.3	2656.0	2836.1	2907.4	3273.3	3411.7
35°	4160.7	4181.1	4125.0	3956.1	3589.1	3088.2	2811.5	2892.9	2947.3	3270.7	3392.2
37.5°	4711.7	4730.4	4625.2	4446.0	4121.6	3495.9	3061.1	2999.9	3041.6	3311.5	3397.3
40°	5534.5	5532.1	5260.3	4986.0	4706.7	4013.7	3411.7	3193.5	3214.7	3434.7	3460.1
42.5°	6431.2	6426.9	6025.3	5608.4	5356.2	4651.5	3872.8	3528.1	3513.7	3661.4	3623.1
45°	7122.4	7121.5	6793.7	6324.3	6138.3	5383.4	4468.9	3993.4	3971.3	4029.9	3923.7
47.5°	7417.1	7422.1	7257.4	6927.1	7005.2	6373.4	5220.4	4667.5	4634.4	4610.7	4449.4
50°	7187.7	7198.0	7211.5	7146.9	7641.1	7704.1	6228.4	5617.8	5601.6	5495.5	5243.4
52.5°	6438.8	6490.6	6650.3	6854.9	7862.0	8981.1	7808.4	6798.0	6711.5	6598.5	6320.8
55°	5177.0	5233.9	5537.0	6033.9	7533.3	9820.0	10023.0	8319.6	8175.4	7838.2	7437.4
57.5°	3426.2	3514.6	3954.3	4586.0	6578.9	9955.0	12232.3	10431.4	9928.7	9005.7	8554.0
60°	1887.6	1972.4	2449.7	3022.0	4751.6	9287.7	13718.4	13180.8	12292.6	10310.8	9910.1
62.5°	1162.4	1208.3	1560.7	2093.1	2849.6	7330.4	14025.7	16636.0	15607.5	11991.2	11547.9
65°	925.5	945.1	1117.4	1711.0	2042.9	4360.2	13033.1	19269.8	18926.8	14025.7	13014.4
67°	898.3	906.0	987.4	1469.0	1925.8	2673.0	10918.9	19698.7	20046.8	15257.0	13060.3
67.5°	904.3	912.8	990.1	1401.9	1922.4	2456.4	10190.3	19529.6	19969.6	15354.5	12857.3
70°	872.0	898.3	1133.6	1401.0	1828.1	2041.3	6102.5	16921.2	17378.9	14266.8	10909.4
72.5°	309.1	310.8	489.9	1133.6	1987.8	2063.4	3064.5	12404.7	12743.6	10913.7	7865.3
75°	183.4	156.2	163.1	322.7	1899.5	2004.0	1767.9	7926.5	8053.1	6253.8	3983.1
77.5°	126.5	110.4	113.7	142.7	723.4	1975.9	1404.4	4133.5	3998.5	2193.3	848.3
80°	72.2	63.7	68.0	124.8	263.2	1843.4	1324.7	1676.1	1429.1	371.9	234.4
82.5°	38.2	32.2	39.0	102.7	183.4	1148.9	1327.2	810.0	641.9	125.6	159.6
85°	13.5	11.0	18.7	70.5	122.3	352.4	1230.4	681.0	535.0	61.1	121.4
87.5°	2.5	2.5	7.6	28.9	49.2	107.8	727.6	404.2	270.9	36.5	83.2
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°	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5	3210.5
2.5°	3200.3	3163.8	3114.6	3054.3	2983.0	2920.1	2873.4	2825.0	2814.8	2797.8	2795.3
5°	3179.1	3116.3	2994.0	2853.9	2704.3	2569.4	2459.9	2362.3	2318.9	2281.6	2277.3
7.5°	3147.6	3053.5	2845.4	2619.5	2386.0	2173.7	1993.8	1866.3	1749.1	1693.2	1684.7
10°	3111.1	2976.1	2678.2	2364.8	2042.2	1742.3	1474.9	1250.8	1114.9	1034.2	1024.1
12.5°	3077.2	2900.7	2507.4	2100.7	1671.8	1271.1	927.3	713.3	570.7	512.9	506.1
15°	3061.1	2839.4	2347.8	1830.7	1284.7	809.2	507.0	392.2	345.6	332.0	331.2
17.5°	3059.4	2787.6	2191.5	1551.4	900.1	470.4	330.3	301.4	292.0	288.7	288.7
20°	3058.5	2738.4	2035.3	1261.8	571.4	313.3	275.2	268.3	261.5	257.3	257.3
22.5°	3067.9	2694.3	1872.2	966.3	360.0	253.9	242.0	235.2	226.7	220.8	219.9
25°	3077.2	2660.3	1705.9	687.8	260.7	220.8	208.9	199.5	187.7	180.1	179.1
27.5°	3078.9	2617.9	1527.6	460.2	218.2	192.8	177.4	163.1	149.4	141.8	141.0
30°	3053.5	2546.5	1329.6	310.8	192.8	167.2	146.9	131.6	118.9	113.0	113.0
32.5°	3003.3	2458.3	1112.4	234.4	171.5	143.4	121.4	107.0	98.6	95.9	95.0
35°	2958.3	2363.1	889.1	198.8	153.7	121.4	99.3	90.0	84.9	84.0	83.2
37.5°	2932.0	2286.7	679.3	180.1	136.7	101.9	84.0	77.2	74.8	72.9	73.9
40°	2952.4	2223.0	501.8	164.8	119.7	84.9	71.3	68.0	65.3	64.6	64.6
42.5°	3041.6	2212.0	372.8	151.1	103.6	70.5	62.0	59.4	57.7	57.0	57.7
45°	3275.9	2279.9	289.5	138.4	87.4	59.4	52.7	51.8	51.0	51.0	51.0
47.5°	3628.3	2420.0	241.1	124.0	72.9	51.0	45.9	45.1	44.1	45.1	45.1
50°	4225.2	2676.5	215.7	109.6	60.3	43.2	39.0	39.0	39.0	39.0	39.9
52.5°	5132.9	3180.7	198.8	95.0	49.2	36.5	33.1	33.1	34.0	34.0	34.9
55°	6144.2	3849.9	183.4	80.7	41.6	30.6	27.2	28.0	28.9	29.7	29.7
57.5°	7241.2	4591.2	170.7	66.2	35.6	24.6	23.0	23.8	24.6	26.3	26.3
60°	8565.1	5393.6	152.0	51.8	29.7	19.5	17.8	19.5	22.1	23.8	24.6
62.5°	10018.7	6169.7	128.3	40.8	24.6	15.3	14.4	17.8	21.2	23.0	23.8
65°	11012.2	6413.4	98.6	33.1	18.7	11.0	11.9	16.2	20.4	23.0	23.0
67°	10609.7	5814.8	80.7	28.0	15.3	8.5	11.0	16.2	20.4	22.1	23.0
67.5°	10330.4	5580.4	77.2	27.2	14.4	8.5	11.0	16.2	20.4	23.0	23.0
70°	8405.5	4192.1	64.6	20.4	11.9	7.6	9.3	15.3	19.5	22.1	22.1
72.5°	5840.2	2584.7	57.7	14.4	10.2	6.8	8.5	14.4	18.7	21.2	22.1
75°	2776.6	935.7	49.2	11.0	9.3	5.9	7.6	14.4	18.7	21.2	21.2
77.5°	566.4	217.4	39.9	9.3	7.6	5.9	6.8	13.5	17.8	20.4	20.4
80°	186.0	84.0	29.7	8.5	7.6	5.9	6.8	12.8	17.8	19.5	20.4
82.5°	134.2	42.5	19.5	8.5	7.6	5.9	5.9	12.8	16.9	19.5	19.5
85°	102.7	29.7	12.8	8.5	7.6	5.9	5.9	11.9	16.2	18.7	18.7
87.5°	68.0	11.9	10.2	8.5	7.6	5.9	5.9	11.9	15.3	17.8	18.7
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)