

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: P299725

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299725
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: GLNA-AF-06-LED-E1-SL2-7027-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15331.3 lumens
Efficiency: N/A
Efficacy: 79.4 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): 193
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

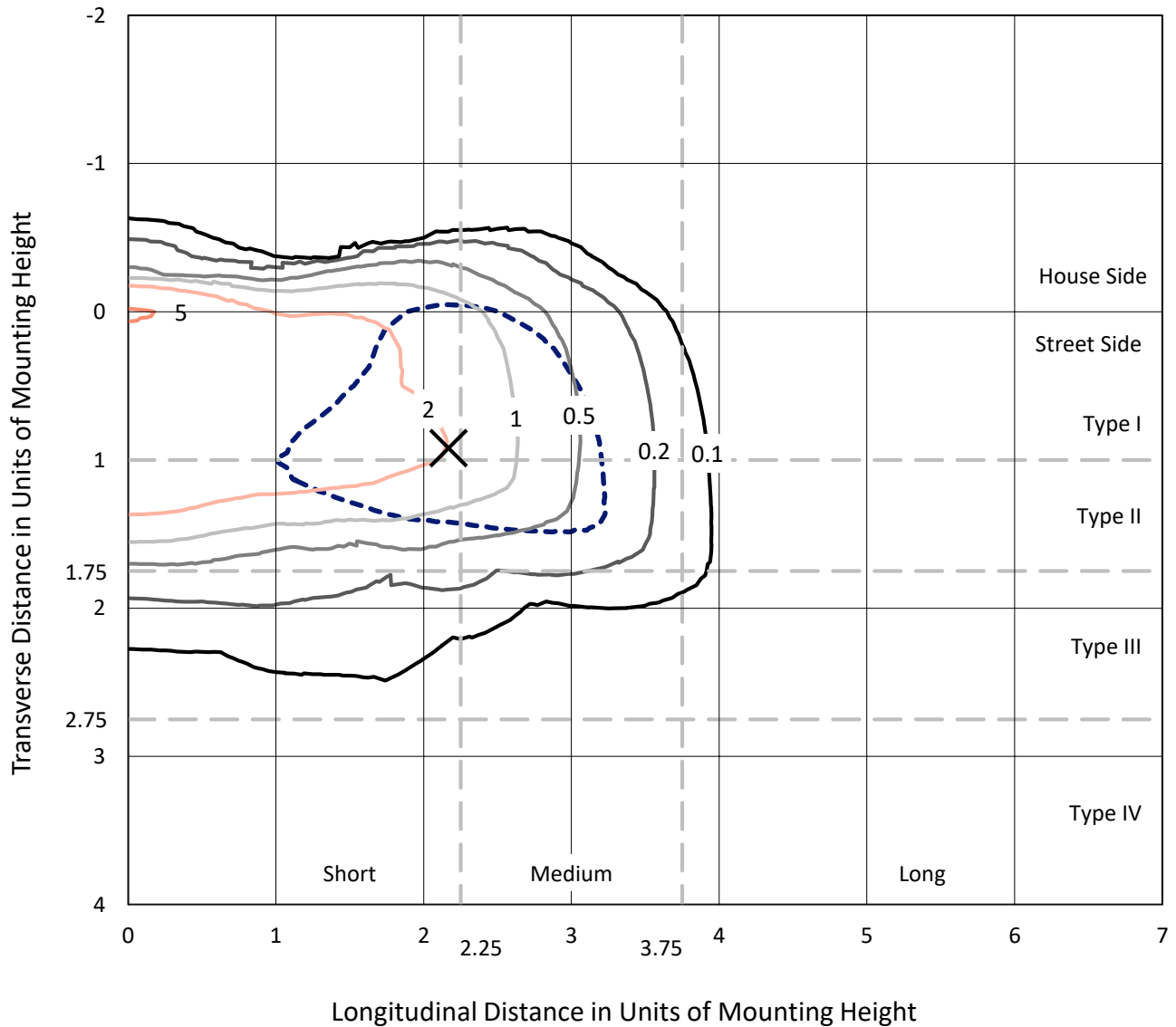


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

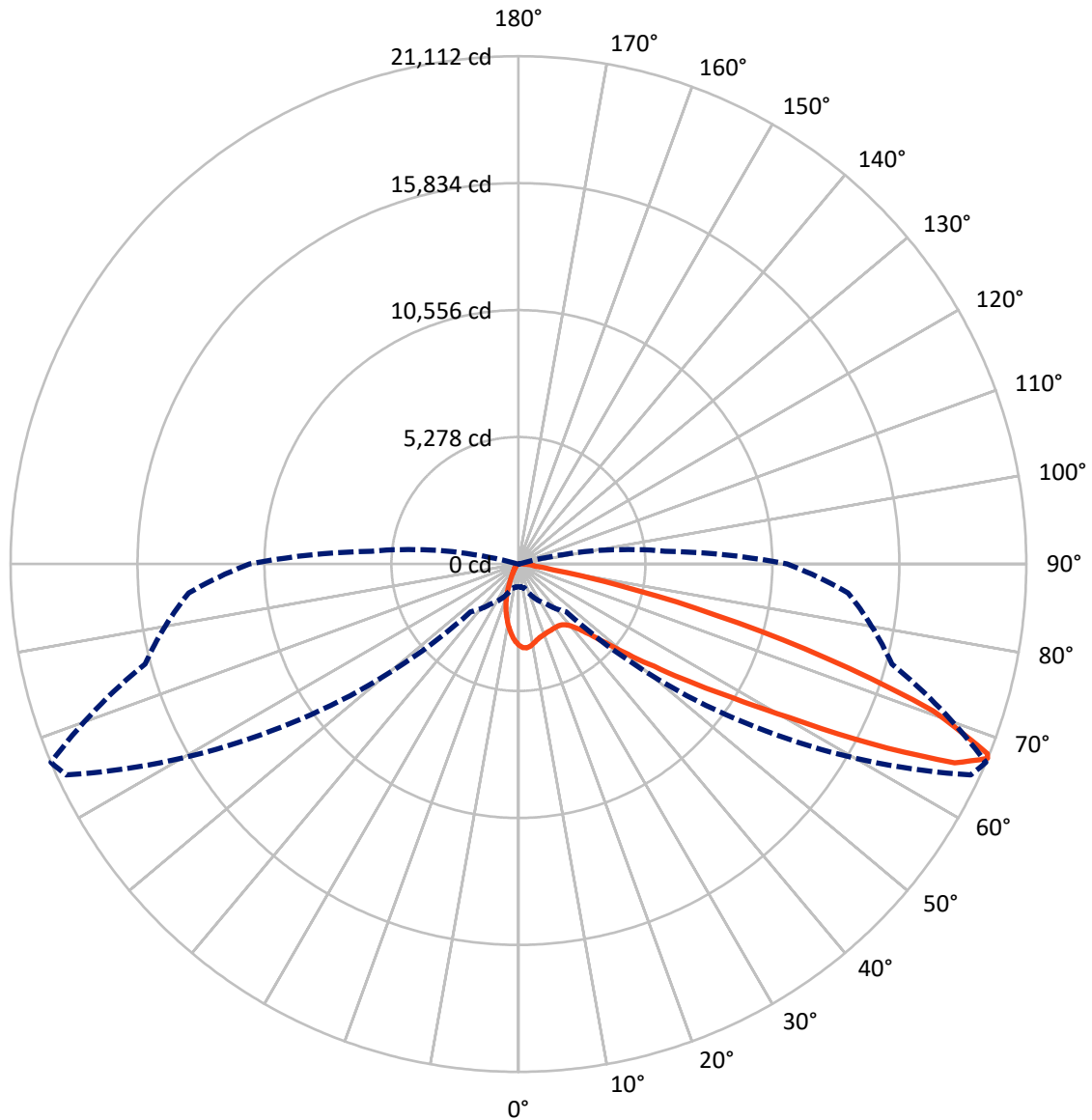


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - Semi-Cutoff

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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	1591.9	0.0	1591.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13739.5	0.0	13739.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	15331.3	0.0	15331.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	1.8
10°-20°	585.6	3.8
20°-30°	851.3	5.6
30°-40°	1328.1	8.7
40°-50°	2352.7	15.3
50°-60°	3722.9	24.3
60°-70°	4264.1	27.8
70°-80°	1768.7	11.5
80°-90°	182.7	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°	15331.3	100.0
0°-180°	15331.3	100.0



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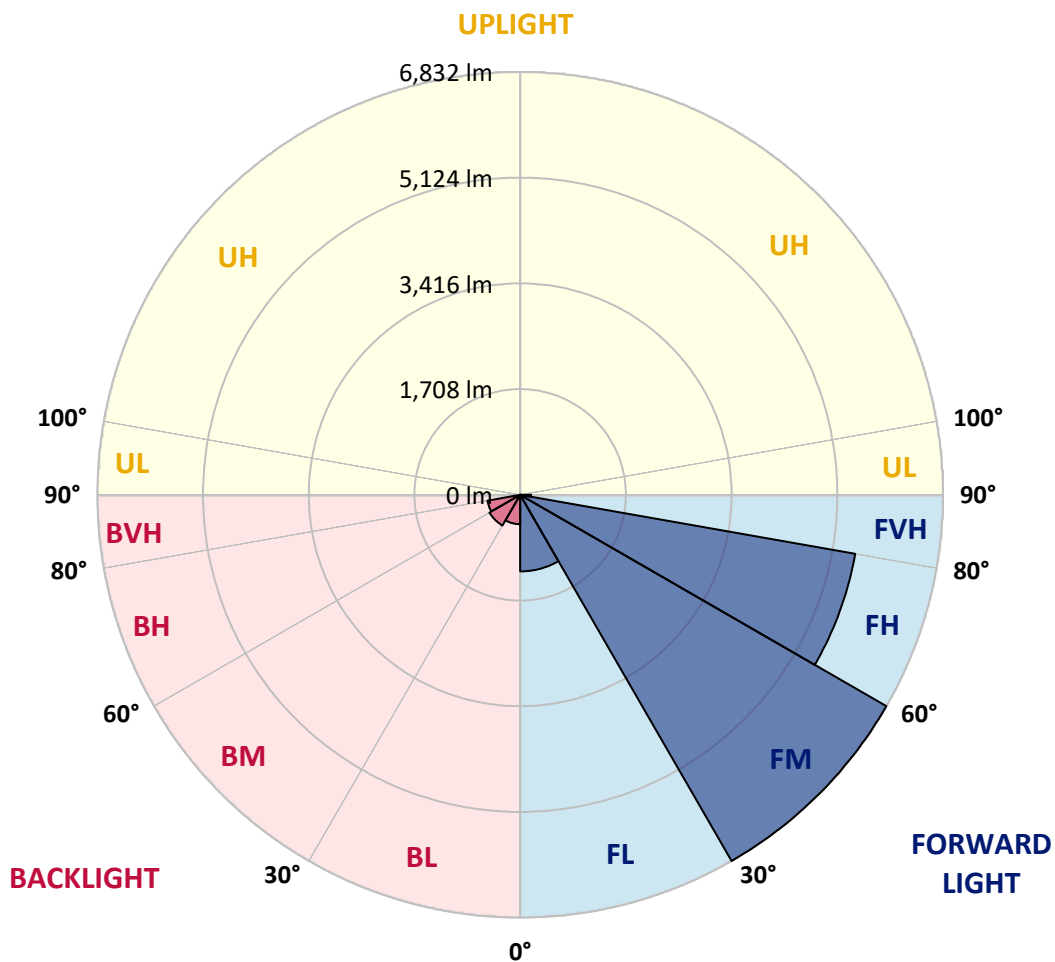
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.0	8.1			
FM (30°-60°)	6831.7	44.6			
FH (60°-80°)	5496.3	35.9			G3/7500
FVH (80°-90°)	174.5	1.1			G2/225
BL (0°-30°)	475.0	3.1	B1/500		
BM (30°-60°)	572.1	3.7	B1/1000		
BH (60°-80°)	536.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.2	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°	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1
2.5°	3495.6	3502.7	3501.8	3507.2	3519.7	3520.6	3508.1	3484.0	3478.6	3447.3	3392.7
5°	3223.7	3244.3	3256.8	3307.8	3365.0	3433.9	3485.7	3504.5	3501.8	3479.5	3397.2
7.5°	2913.4	2934.0	2948.3	3008.2	3084.2	3202.3	3337.3	3448.2	3458.0	3482.2	3393.6
10°	2706.9	2710.4	2730.1	2787.3	2866.9	2987.7	3148.6	3342.7	3372.2	3460.7	3384.7
12.5°	2537.0	2539.6	2565.6	2627.3	2712.2	2833.8	3002.9	3227.3	3272.9	3433.9	3382.9
15°	2416.2	2426.1	2449.3	2513.7	2604.0	2724.7	2898.2	3142.4	3196.9	3424.0	3399.0
17.5°	2376.0	2386.7	2393.9	2440.4	2522.6	2640.7	2818.6	3086.9	3148.6	3429.4	3430.3
20°	2418.0	2426.1	2410.0	2421.6	2472.6	2578.1	2751.6	3039.5	3112.8	3435.7	3470.5
22.5°	2574.5	2578.1	2534.3	2483.3	2474.4	2532.5	2698.8	3002.0	3080.7	3452.7	3517.9
25°	2842.8	2836.5	2765.0	2655.0	2551.3	2524.4	2667.5	2978.7	3064.6	3470.5	3567.1
27.5°	3166.5	3175.4	3077.1	2917.0	2719.4	2578.1	2663.0	2968.9	3057.4	3483.1	3610.0
30°	3560.0	3572.5	3459.8	3258.6	2975.1	2710.4	2704.2	2967.1	3052.9	3475.0	3613.6
32.5°	3961.5	3976.7	3888.2	3680.7	3316.7	2932.2	2797.2	2986.8	3061.9	3447.3	3593.1
35°	4381.8	4403.2	4344.2	4166.3	3779.9	3252.3	2960.8	3046.7	3103.9	3444.6	3572.5
37.5°	4962.1	4981.8	4870.9	4682.2	4340.6	3681.6	3223.7	3159.3	3203.2	3487.5	3577.8
40°	5828.6	5826.0	5539.8	5251.0	4956.8	4227.1	3593.1	3363.2	3385.6	3617.2	3644.0
42.5°	6773.0	6768.5	6345.5	5906.4	5640.9	4898.6	4078.6	3715.6	3700.4	3856.0	3815.7
45°	7500.9	7500.0	7154.8	6660.3	6464.5	5669.5	4706.4	4205.6	4182.4	4244.1	4132.3
47.5°	7811.2	7816.5	7643.1	7295.2	7377.5	6712.2	5497.8	4915.6	4880.8	4855.7	4685.8
50°	7569.7	7580.5	7594.8	7526.8	8047.3	8113.4	6559.2	5916.3	5899.3	5787.5	5521.9
52.5°	6781.0	6835.6	7003.7	7219.2	8279.8	9458.4	8223.4	7159.3	7068.1	6949.1	6656.7
55°	5452.2	5512.1	5831.3	6354.5	7933.7	10341.9	10555.6	8761.8	8609.7	8254.7	7832.6
57.5°	3608.3	3701.3	4164.5	4829.8	6928.6	10484.1	12882.4	10985.7	10456.3	9484.3	9008.6
60°	1987.9	2077.3	2579.9	3182.6	5004.2	9781.2	14447.3	13881.3	12945.9	10858.7	10436.7
62.5°	1224.2	1272.5	1643.6	2204.3	3001.1	7720.0	14771.0	17519.9	16437.0	12628.4	12161.6
65°	974.7	995.3	1176.8	1801.9	2151.5	4591.9	13725.7	20293.9	19932.6	14771.0	13706.0
67°	946.1	954.2	1040.0	1547.0	2028.1	2815.1	11499.0	20745.4	21112.1	16067.7	13754.3
67.5°	952.4	961.3	1042.7	1476.4	2024.6	2587.0	10731.8	20567.5	21030.7	16170.5	13540.6
70°	918.4	946.1	1193.8	1475.5	1925.3	2149.7	6426.9	17820.4	18302.4	15025.0	11489.2
72.5°	325.5	327.3	516.0	1193.8	2093.4	2173.0	3227.3	13063.9	13420.7	11493.7	8283.3
75°	193.2	164.5	171.7	339.8	2000.4	2110.4	1861.8	8347.7	8481.0	6586.1	4194.9
77.5°	133.2	116.3	119.8	150.2	761.9	2080.9	1479.1	4353.2	4211.0	2309.8	893.3
80°	76.0	67.1	71.5	131.5	277.2	1941.4	1395.0	1765.2	1505.0	391.7	246.8
82.5°	40.2	34.0	41.1	108.2	193.2	1209.9	1397.7	853.1	676.0	132.3	168.1
85°	14.3	11.6	19.7	74.2	128.8	371.1	1295.8	717.2	563.4	64.4	127.9
87.5°	2.7	2.7	8.0	30.4	51.9	113.6	766.4	425.7	285.3	38.5	87.6
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°	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1	3381.1
2.5°	3370.4	3331.9	3280.1	3216.6	3141.5	3075.3	3026.1	2975.1	2964.4	2946.5	2943.8
5°	3348.0	3281.9	3153.1	3005.5	2848.2	2706.0	2590.6	2487.8	2442.2	2402.8	2398.3
7.5°	3314.9	3215.7	2996.6	2758.7	2512.8	2289.3	2099.7	1965.5	1842.1	1783.1	1774.2
10°	3276.5	3134.3	2820.4	2490.5	2150.6	1835.0	1553.3	1317.2	1174.1	1089.2	1078.5
12.5°	3240.7	3054.7	2640.7	2212.3	1760.8	1338.7	976.5	751.2	600.9	540.1	533.0
15°	3223.7	2990.3	2472.6	1928.0	1353.0	852.2	533.9	413.1	364.0	349.6	348.8
17.5°	3221.9	2935.8	2308.0	1633.8	947.9	495.4	347.9	317.5	307.6	304.0	304.0
20°	3221.0	2883.9	2143.5	1328.8	601.8	330.0	289.7	282.6	275.4	271.0	271.0
22.5°	3230.9	2837.4	1971.8	1017.6	379.2	267.4	254.9	247.7	238.8	232.5	231.6
25°	3240.7	2801.7	1796.5	724.3	274.5	232.5	220.0	210.1	197.6	189.6	188.7
27.5°	3242.5	2756.9	1608.7	484.7	229.8	203.0	186.9	171.7	157.4	149.3	148.4
30°	3215.7	2681.8	1400.4	327.3	203.0	176.2	154.7	138.6	125.2	118.9	118.9
32.5°	3162.9	2588.8	1171.5	246.8	180.6	151.1	127.9	112.7	103.7	101.0	100.2
35°	3115.5	2488.7	936.3	209.3	161.9	127.9	104.6	94.8	89.4	88.5	87.6
37.5°	3087.8	2408.2	715.4	189.6	144.0	107.3	88.5	81.4	78.7	76.9	77.8
40°	3109.3	2341.1	528.5	173.5	126.1	89.4	75.1	71.5	68.9	68.0	68.0
42.5°	3203.2	2329.5	392.6	159.2	109.1	74.2	65.3	62.6	60.8	59.9	60.8
45°	3450.0	2401.0	304.9	145.8	92.1	62.6	55.4	54.5	53.7	53.7	53.7
47.5°	3821.1	2548.6	254.0	130.6	76.9	53.7	48.3	47.4	46.5	47.4	47.4
50°	4449.7	2818.6	227.1	115.4	63.5	45.6	41.1	41.1	41.1	41.1	42.0
52.5°	5405.7	3349.8	209.3	100.2	51.9	38.5	34.9	34.9	35.8	35.8	36.7
55°	6470.7	4054.5	193.2	85.0	43.8	32.2	28.6	29.5	30.4	31.3	31.3
57.5°	7626.1	4835.1	179.7	69.8	37.6	25.9	24.1	25.0	25.9	27.7	27.7
60°	9020.2	5680.2	160.1	54.5	31.3	20.6	18.8	20.6	23.3	25.0	25.9
62.5°	10551.1	6497.5	135.0	42.9	25.9	16.1	15.2	18.8	22.4	24.1	25.0
65°	11597.4	6754.2	103.7	34.9	19.7	11.6	12.5	17.0	21.5	24.1	24.1
67°	11173.5	6123.7	85.0	29.5	16.1	8.9	11.6	17.0	21.5	23.3	24.1
67.5°	10879.3	5876.9	81.4	28.6	15.2	8.9	11.6	17.0	21.5	24.1	24.1
70°	8852.1	4414.9	68.0	21.5	12.5	8.0	9.8	16.1	20.6	23.3	23.3
72.5°	6150.6	2722.1	60.8	15.2	10.7	7.2	8.9	15.2	19.7	22.4	23.3
75°	2924.2	985.5	51.9	11.6	9.8	6.3	8.0	15.2	19.7	22.4	22.4
77.5°	596.5	228.9	42.0	9.8	8.0	6.3	7.2	14.3	18.8	21.5	21.5
80°	195.8	88.5	31.3	8.9	8.0	6.3	7.2	13.4	18.8	20.6	21.5
82.5°	141.3	44.7	20.6	8.9	8.0	6.3	6.3	13.4	17.9	20.6	20.6
85°	108.2	31.3	13.4	8.9	8.0	6.3	6.3	12.5	17.0	19.7	19.7
87.5°	71.5	12.5	10.7	8.9	8.0	6.3	6.3	12.5	16.1	18.8	19.7
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)