

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: P299726

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299726
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-SL2-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K 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: 17068.4 lumens
Efficiency: N/A
Efficacy: 88.4 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

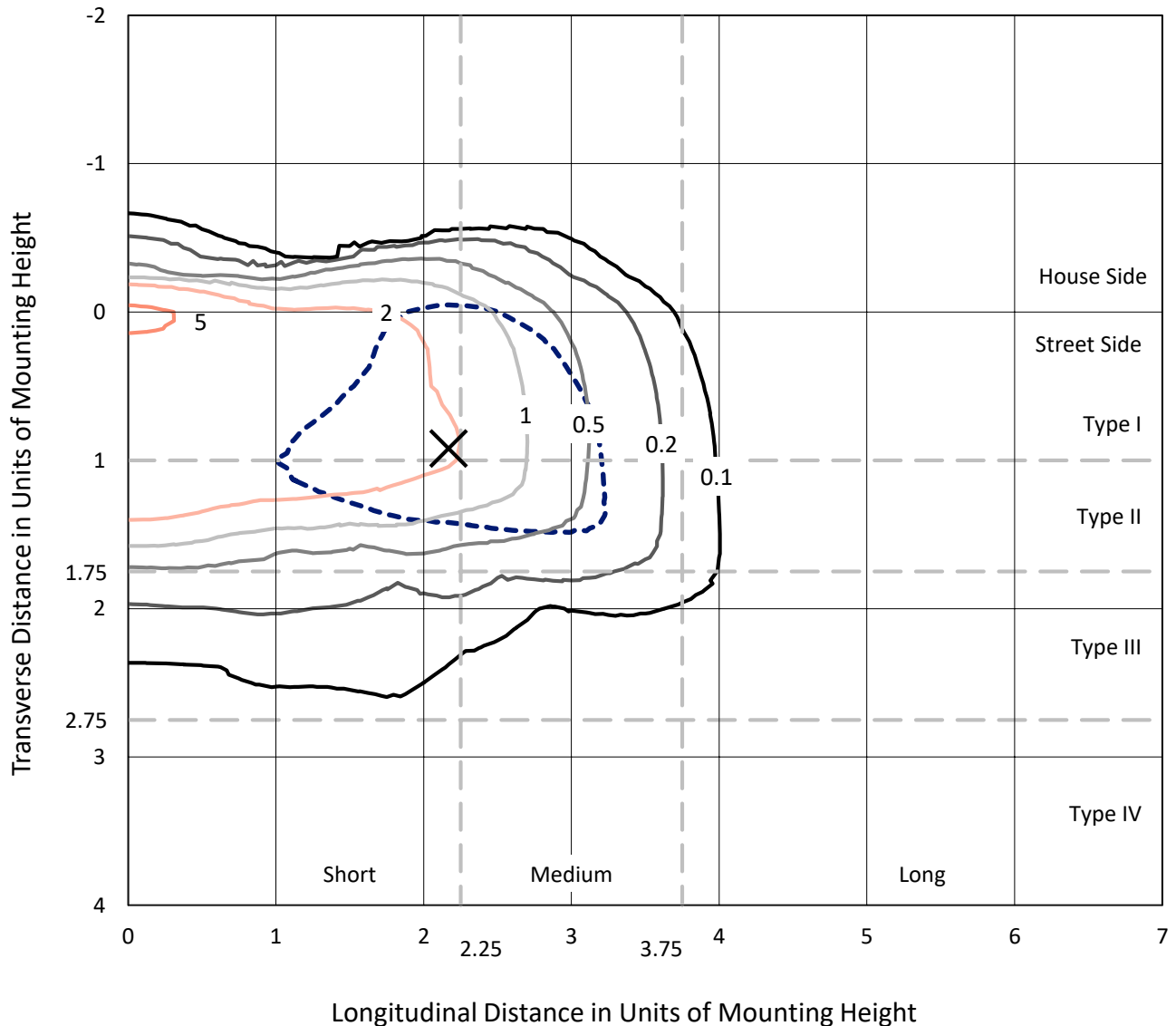


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

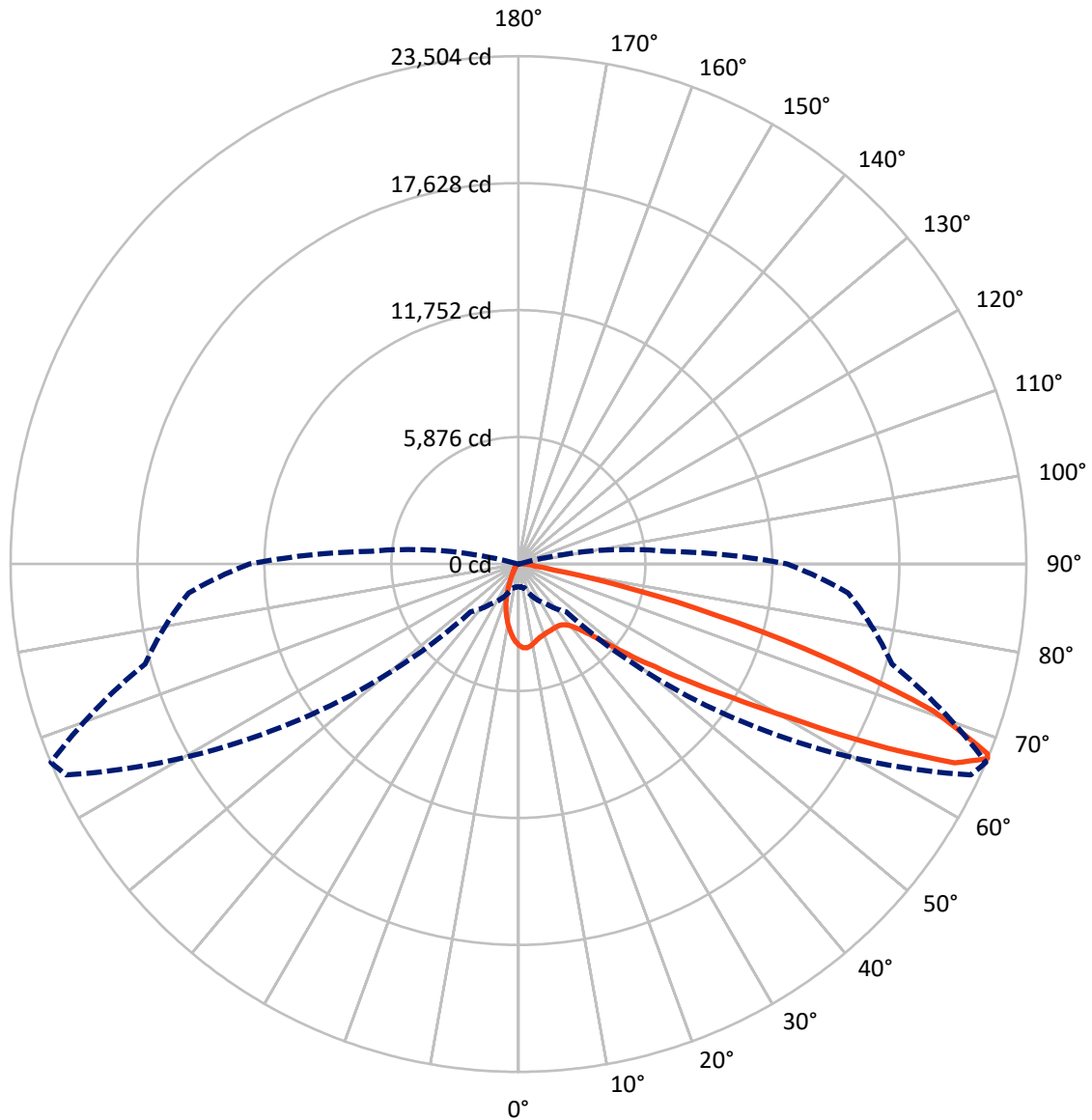


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - Semi-Cutoff

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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	1772.2	0.0	1772.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15296.1	0.0	15296.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	17068.4	0.0	17068.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	1.8
10°-20°	651.9	3.8
20°-30°	947.8	5.6
30°-40°	1478.6	8.7
40°-50°	2619.3	15.3
50°-60°	4144.7	24.3
60°-70°	4747.2	27.8
70°-80°	1969.1	11.5
80°-90°	203.4	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°	17068.4	100.0
0°-180°	17068.4	100.0



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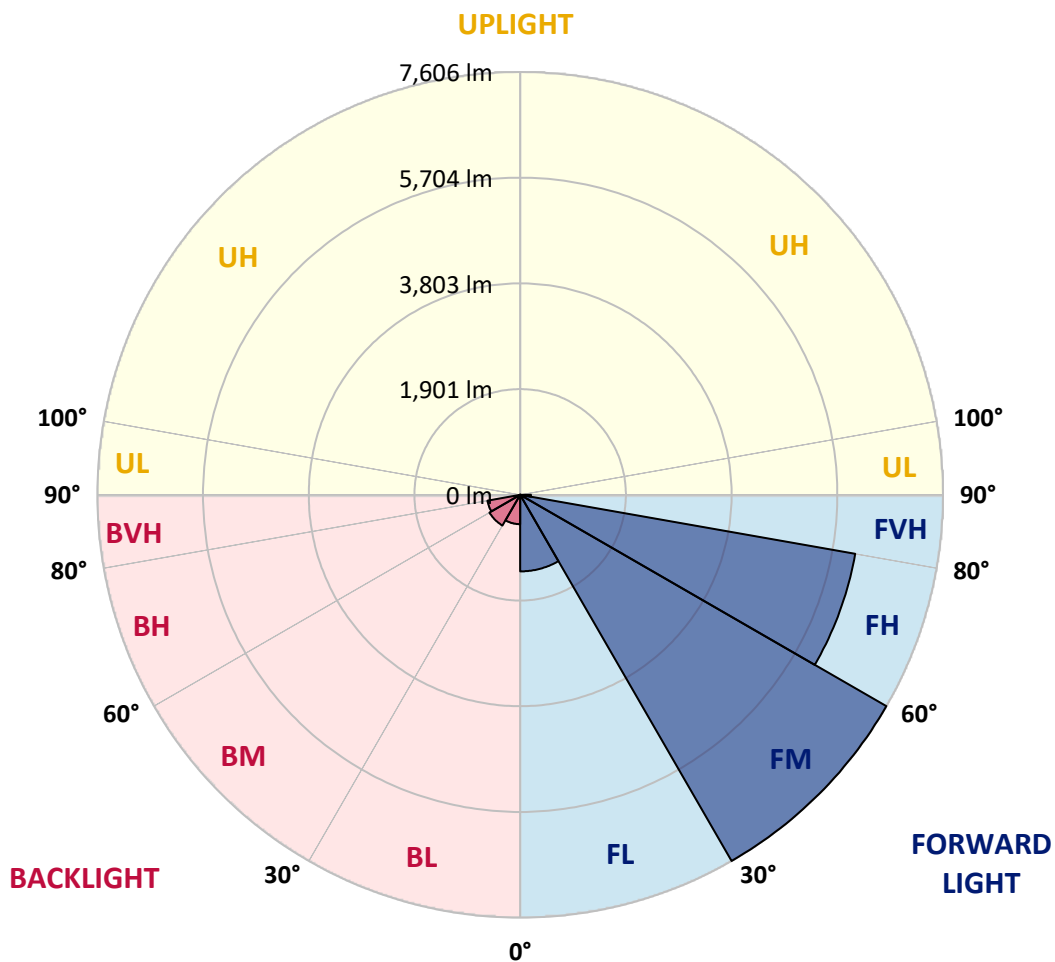
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1377.2	8.1			
FM (30°-60°)	7605.7	44.6			
FH (60°-80°)	6119.1	35.9			G3/7500
FVH (80°-90°)	194.2	1.1			G2/225
BL (0°-30°)	528.8	3.1	B2/1000		
BM (30°-60°)	636.9	3.7	B1/1000		
BH (60°-80°)	597.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	9.2	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°	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2
2.5°	3891.6	3899.6	3898.6	3904.6	3918.5	3919.5	3905.6	3878.7	3872.7	3837.9	3777.1
5°	3589.0	3611.9	3625.8	3682.6	3746.3	3822.9	3880.7	3901.6	3898.6	3873.7	3782.1
7.5°	3243.5	3266.4	3282.4	3349.1	3433.7	3565.1	3715.4	3838.9	3849.8	3876.7	3778.1
10°	3013.6	3017.5	3039.4	3103.2	3191.8	3326.2	3505.4	3721.4	3754.2	3852.8	3768.2
12.5°	2824.4	2827.4	2856.3	2924.9	3019.5	3154.9	3343.1	3593.0	3643.7	3822.9	3766.2
15°	2690.0	2700.9	2726.8	2798.5	2899.1	3033.5	3226.6	3498.4	3559.1	3812.0	3784.1
17.5°	2645.2	2657.1	2665.1	2716.9	2808.5	2939.9	3138.0	3436.7	3505.4	3818.0	3819.0
20°	2692.0	2700.9	2683.0	2696.0	2752.7	2870.2	3063.3	3383.9	3465.5	3824.9	3863.8
22.5°	2866.2	2870.2	2821.4	2764.7	2754.7	2819.4	3004.6	3342.1	3429.7	3843.8	3916.5
25°	3164.9	3157.9	3078.3	2955.8	2840.3	2810.5	2969.7	3316.2	3411.8	3863.8	3971.3
27.5°	3525.3	3535.2	3425.7	3247.5	3027.5	2870.2	2964.8	3305.2	3403.8	3877.7	4019.1
30°	3963.3	3977.3	3851.8	3627.8	3312.2	3017.5	3010.6	3303.3	3398.8	3868.7	4023.0
32.5°	4410.3	4427.2	4328.7	4097.7	3692.5	3264.4	3114.1	3325.2	3408.8	3837.9	4000.1
35°	4878.2	4902.1	4836.4	4638.3	4208.2	3620.8	3296.3	3391.9	3455.6	3834.9	3977.3
37.5°	5524.3	5546.2	5422.8	5212.7	4832.4	4098.7	3589.0	3517.3	3566.1	3882.7	3983.2
40°	6489.0	6486.1	6167.5	5845.9	5518.4	4706.0	4000.1	3744.3	3769.2	4027.0	4056.9
42.5°	7540.3	7535.4	7064.5	6575.7	6280.0	5453.7	4540.7	4136.5	4119.6	4292.8	4248.0
45°	8350.7	8349.7	7965.5	7414.9	7196.9	6311.8	5239.6	4682.1	4656.2	4724.9	4600.5
47.5°	8696.2	8702.2	8509.0	8121.8	8213.3	7472.7	6120.7	5472.6	5433.8	5405.9	5216.7
50°	8427.4	8439.3	8455.3	8379.6	8959.0	9032.7	7302.4	6586.6	6567.7	6443.2	6147.6
52.5°	7549.3	7610.0	7797.2	8037.1	9217.9	10530.0	9155.1	7970.4	7868.9	7736.5	7410.9
55°	6069.9	6136.6	6492.0	7074.4	8832.6	11513.6	11751.6	9754.5	9585.2	9190.0	8720.1
57.5°	4017.1	4120.6	4636.3	5377.0	7713.6	11671.9	14342.0	12230.4	11641.0	10558.9	10029.2
60°	2213.1	2312.7	2872.2	3543.2	5571.1	10889.4	16084.2	15454.0	14412.7	12089.1	11619.1
62.5°	1362.9	1416.7	1829.8	2454.0	3341.1	8594.6	16444.6	19505.0	18299.3	14059.3	13539.6
65°	1085.2	1108.1	1310.2	2006.0	2395.3	5112.2	15280.8	22593.2	22191.0	16444.6	15258.9
67°	1053.3	1062.3	1157.8	1722.3	2257.9	3134.0	12801.9	23095.9	23504.1	17888.2	15312.7
67.5°	1060.3	1070.2	1160.8	1643.7	2253.9	2880.1	11947.7	22897.8	23413.5	18002.7	15074.7
70°	1022.4	1053.3	1329.1	1642.7	2143.4	2393.3	7155.1	19839.5	20376.1	16727.4	12790.9
72.5°	362.4	364.4	574.4	1329.1	2330.6	2419.2	3593.0	14544.1	14941.3	12795.9	9221.8
75°	215.0	183.2	191.1	378.3	2227.1	2349.5	2072.8	9293.5	9441.9	7332.3	4670.2
77.5°	148.3	129.4	133.4	167.3	848.2	2316.7	1646.7	4846.4	4688.1	2571.5	994.6
80°	84.6	74.7	79.6	146.3	308.6	2161.4	1553.1	1965.2	1675.5	436.1	274.8
82.5°	44.8	37.8	45.8	120.5	215.0	1347.0	1556.1	949.8	752.6	147.3	187.2
85°	15.9	12.9	21.9	82.6	143.4	413.2	1442.6	798.4	627.2	71.7	142.4
87.5°	3.0	3.0	9.0	33.8	57.7	126.4	853.2	473.9	317.6	42.8	97.6
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°	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2
2.5°	3752.3	3709.4	3651.7	3581.0	3497.4	3423.7	3369.0	3312.2	3300.3	3280.4	3277.4
5°	3727.4	3653.7	3510.3	3346.1	3170.8	3012.6	2884.1	2769.6	2718.9	2675.1	2670.1
7.5°	3690.5	3580.0	3336.1	3071.3	2797.5	2548.6	2337.6	2188.2	2050.8	1985.1	1975.2
10°	3647.7	3489.4	3140.0	2772.6	2394.3	2042.9	1729.3	1466.5	1307.2	1212.6	1200.6
12.5°	3607.9	3400.8	2939.9	2463.0	1960.3	1490.3	1087.1	836.3	669.0	601.3	593.4
15°	3589.0	3329.1	2752.7	2146.4	1506.3	948.8	594.3	459.9	405.2	389.3	388.3
17.5°	3587.0	3268.4	2569.5	1818.9	1055.3	551.5	387.3	353.4	342.5	338.5	338.5
20°	3586.0	3210.7	2386.4	1479.4	670.0	367.4	322.6	314.6	306.6	301.7	301.7
22.5°	3596.9	3158.9	2195.2	1132.9	422.1	297.7	283.7	275.8	265.8	258.8	257.8
25°	3607.9	3119.1	2000.1	806.4	305.6	258.8	244.9	234.0	220.0	211.1	210.1
27.5°	3609.9	3069.3	1791.0	539.6	255.9	226.0	208.1	191.1	175.2	166.3	165.3
30°	3580.0	2985.7	1559.0	364.4	226.0	196.1	172.2	154.3	139.4	132.4	132.4
32.5°	3521.3	2882.1	1304.2	274.8	201.1	168.2	142.4	125.4	115.5	112.5	111.5
35°	3468.5	2770.6	1042.3	233.0	180.2	142.4	116.5	105.5	99.6	98.6	97.6
37.5°	3437.7	2681.0	796.4	211.1	160.3	119.5	98.6	90.6	87.6	85.6	86.6
40°	3461.6	2606.4	588.4	193.1	140.4	99.6	83.6	79.6	76.7	75.7	75.7
42.5°	3566.1	2593.4	437.0	177.2	121.5	82.6	72.7	69.7	67.7	66.7	67.7
45°	3840.9	2673.1	339.5	162.3	102.5	69.7	61.7	60.7	59.7	59.7	59.7
47.5°	4254.0	2837.3	282.7	145.4	85.6	59.7	53.8	52.8	51.8	52.8	52.8
50°	4953.9	3138.0	252.9	128.4	70.7	50.8	45.8	45.8	45.8	45.8	46.8
52.5°	6018.1	3729.4	233.0	111.5	57.7	42.8	38.8	38.8	39.8	39.8	40.8
55°	7203.9	4513.9	215.0	94.6	48.8	35.8	31.9	32.9	33.8	34.8	34.8
57.5°	8490.1	5383.0	200.1	77.7	41.8	28.9	26.9	27.9	28.9	30.9	30.9
60°	10042.2	6323.8	178.2	60.7	34.8	22.9	20.9	22.9	25.9	27.9	28.9
62.5°	11746.6	7233.7	150.3	47.8	28.9	17.9	16.9	20.9	24.9	26.9	27.9
65°	12911.4	7519.4	115.5	38.8	21.9	12.9	13.9	18.9	23.9	26.9	26.9
67°	12439.5	6817.6	94.6	32.9	17.9	10.0	12.9	18.9	23.9	25.9	26.9
67.5°	12111.9	6542.8	90.6	31.9	16.9	10.0	12.9	18.9	23.9	26.9	26.9
70°	9855.0	4915.1	75.7	23.9	13.9	9.0	11.0	17.9	22.9	25.9	25.9
72.5°	6847.4	3030.5	67.7	16.9	11.9	8.0	10.0	16.9	21.9	24.9	25.9
75°	3255.5	1097.1	57.7	12.9	11.0	7.0	9.0	16.9	21.9	24.9	24.9
77.5°	664.0	254.9	46.8	11.0	9.0	7.0	8.0	15.9	20.9	23.9	23.9
80°	218.0	98.6	34.8	10.0	9.0	7.0	8.0	14.9	20.9	22.9	23.9
82.5°	157.3	49.8	22.9	10.0	9.0	7.0	7.0	14.9	19.9	22.9	22.9
85°	120.5	34.8	14.9	10.0	9.0	7.0	7.0	13.9	18.9	21.9	21.9
87.5°	79.6	13.9	11.9	10.0	9.0	7.0	7.0	13.9	17.9	20.9	21.9
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)