

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: P299730

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299730
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-SL2-7060-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K 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: 17645.7 lumens
Efficiency: N/A
Efficacy: 91.4 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

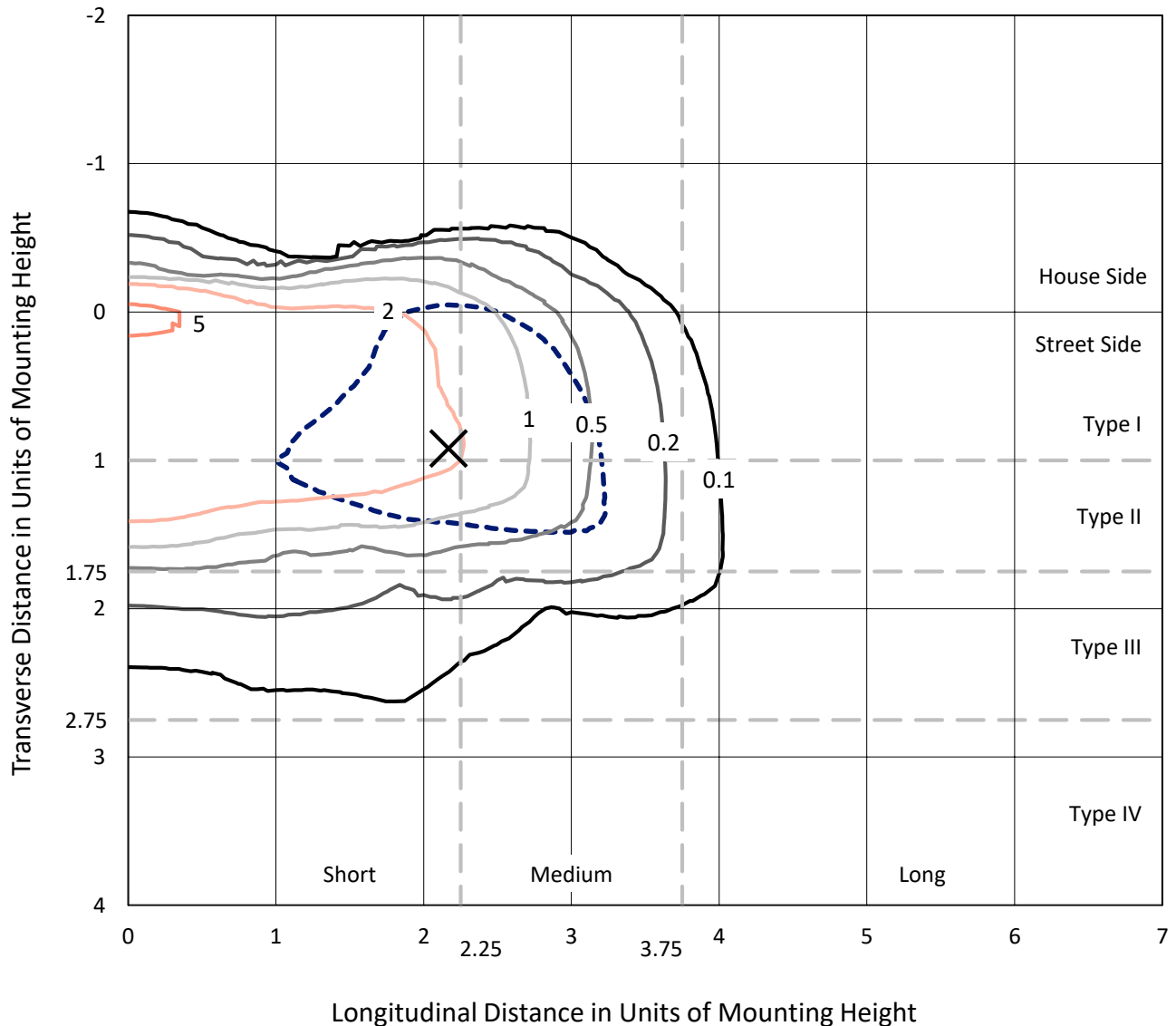


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

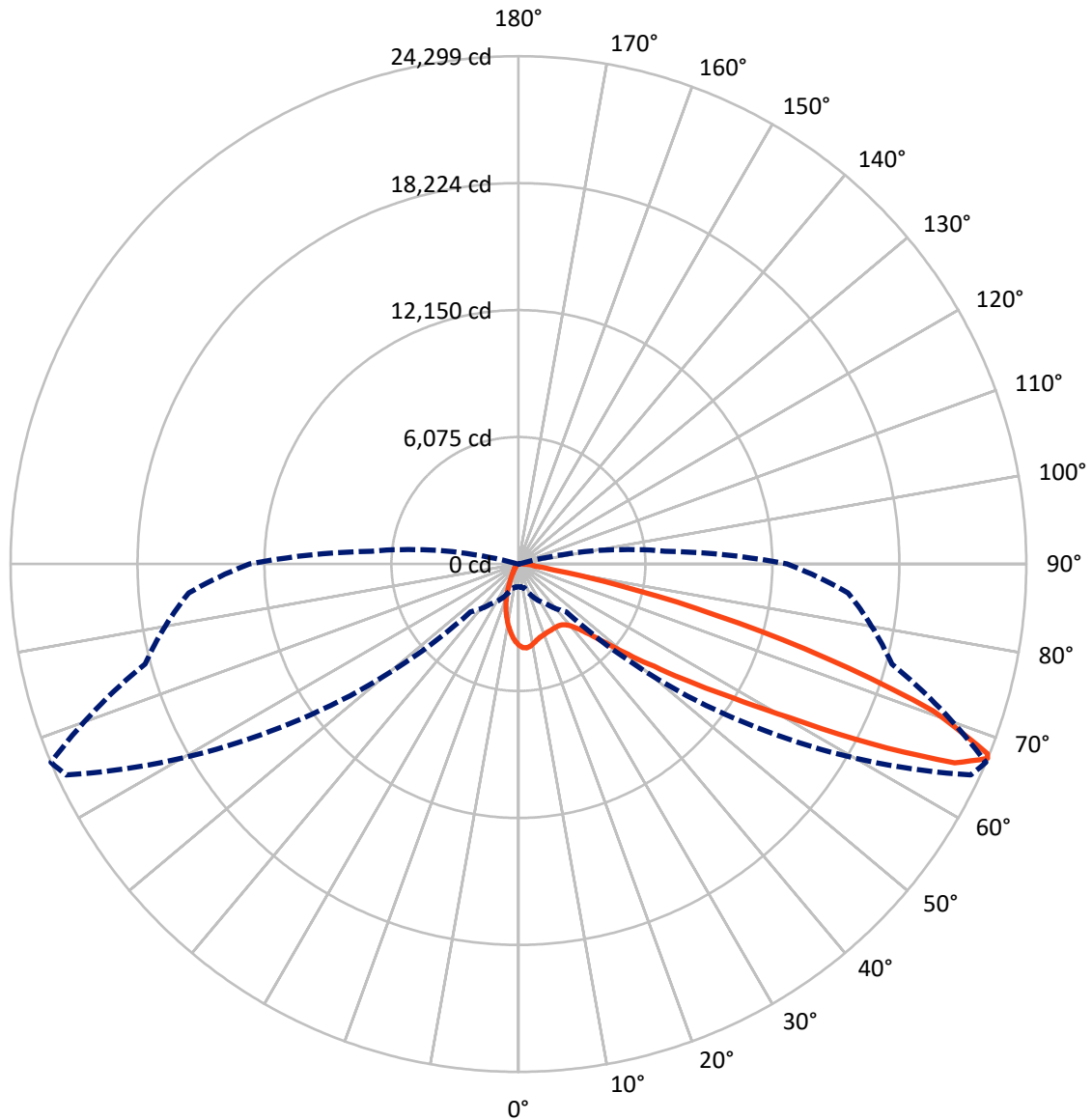


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Semi-Cutoff

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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	1832.2	0.0	1832.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15813.6	0.0	15813.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	17645.7	0.0	17645.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	1.8
10°-20°	673.9	3.8
20°-30°	979.9	5.6
30°-40°	1528.6	8.7
40°-50°	2707.9	15.3
50°-60°	4284.9	24.3
60°-70°	4907.8	27.8
70°-80°	2035.7	11.5
80°-90°	210.3	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°	17645.7	100.0
0°-180°	17645.7	100.0



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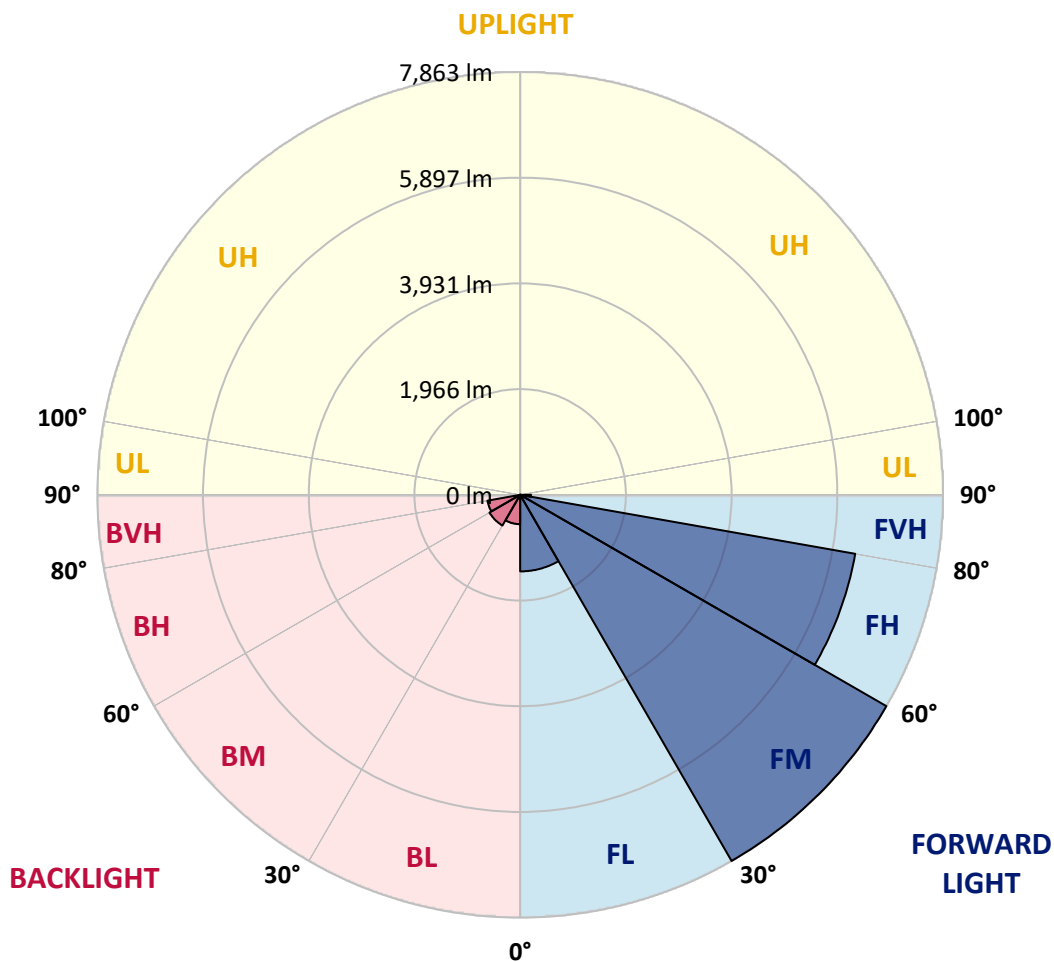
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.7	8.1			
FM (30°-60°)	7863.0	44.6			
FH (60°-80°)	6326.0	35.9			G3/7500
FVH (80°-90°)	200.8	1.1			G2/225
BL (0°-30°)	546.7	3.1	B2/1000		
BM (30°-60°)	658.5	3.7	B1/1000		
BH (60°-80°)	617.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	9.5	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°	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5
2.5°	4023.3	4031.5	4030.5	4036.7	4051.1	4052.1	4037.7	4009.9	4003.7	3967.7	3904.9
5°	3710.4	3734.1	3748.5	3807.1	3873.0	3952.3	4012.0	4033.6	4030.5	4004.8	3910.1
7.5°	3353.2	3376.9	3393.4	3462.3	3549.8	3685.7	3841.1	3968.7	3980.0	4007.8	3905.9
10°	3115.5	3119.6	3142.3	3208.1	3299.7	3438.7	3623.9	3847.3	3881.2	3983.1	3895.7
12.5°	2919.9	2923.0	2952.9	3023.9	3121.7	3261.6	3456.2	3714.5	3767.0	3952.3	3893.6
15°	2781.0	2792.3	2819.1	2893.2	2997.1	3136.1	3335.7	3616.7	3679.5	3940.9	3912.1
17.5°	2734.7	2747.0	2755.3	2808.8	2903.5	3039.3	3244.1	3552.9	3623.9	3947.1	3948.1
20°	2783.0	2792.3	2773.8	2787.2	2845.8	2967.3	3167.0	3498.4	3582.8	3954.3	3994.5
22.5°	2963.2	2967.3	2916.9	2858.2	2847.9	2914.8	3106.2	3455.1	3545.7	3973.9	4049.0
25°	3271.9	3264.7	3182.4	3055.8	2936.4	2905.5	3070.2	3428.4	3527.2	3994.5	4105.6
27.5°	3644.5	3654.8	3541.6	3357.4	3129.9	2967.3	3065.1	3417.1	3519.0	4008.9	4155.0
30°	4097.4	4111.8	3982.1	3750.5	3424.3	3119.6	3112.4	3415.0	3513.8	3999.6	4159.1
32.5°	4559.5	4577.0	4475.1	4236.3	3817.4	3374.9	3219.4	3437.6	3524.1	3967.7	4135.5
35°	5043.2	5068.0	5000.0	4795.2	4350.6	3743.3	3407.8	3506.6	3572.5	3964.6	4111.8
37.5°	5711.2	5733.9	5606.2	5389.1	4995.9	4237.4	3710.4	3636.3	3686.7	4014.0	4118.0
40°	6708.5	6705.5	6376.1	6043.7	5705.0	4865.2	4135.5	3871.0	3896.7	4163.3	4194.1
42.5°	7795.4	7790.3	7303.4	6798.1	6492.4	5638.1	4694.3	4276.5	4259.0	4438.1	4391.7
45°	8633.2	8632.2	8234.9	7665.7	7440.3	6525.3	5416.9	4840.5	4813.7	4884.7	4756.1
47.5°	8990.4	8996.5	8796.9	8396.5	8491.2	7725.4	6327.7	5657.7	5617.6	5588.7	5393.2
50°	8712.5	8724.8	8741.3	8663.1	9262.1	9338.2	7549.4	6809.4	6789.9	6661.2	6355.5
52.5°	7804.7	7867.5	8061.0	8309.0	9529.7	10886.2	9464.8	8240.1	8135.1	7998.2	7661.6
55°	6275.2	6344.2	6711.6	7313.7	9131.4	11903.1	12149.1	10084.4	9909.5	9500.9	9015.1
57.5°	4153.0	4260.0	4793.1	5558.9	7974.5	12066.7	14827.2	12644.1	12034.8	10916.1	10368.5
60°	2288.0	2390.9	2969.3	3663.0	5759.6	11257.8	16628.3	15976.8	14900.2	12498.0	12012.2
62.5°	1409.0	1464.6	1891.7	2537.1	3454.1	8885.4	17000.9	20164.8	18918.4	14534.8	13997.6
65°	1121.9	1145.5	1354.5	2073.9	2476.3	5285.1	15797.7	23357.4	22941.6	17000.9	15775.1
67°	1088.9	1098.2	1197.0	1780.6	2334.3	3240.0	13234.9	23877.2	24299.2	18493.3	15830.7
67.5°	1096.1	1106.4	1200.1	1699.3	2330.2	2977.6	12351.8	23672.4	24205.5	18611.6	15584.7
70°	1057.0	1088.9	1374.0	1698.2	2215.9	2474.3	7397.1	20510.6	21065.3	17293.2	13223.6
72.5°	374.6	376.7	593.9	1374.0	2409.4	2501.0	3714.5	15036.1	15446.8	13228.8	9533.8
75°	222.3	189.4	197.6	391.1	2302.4	2429.0	2142.9	9607.9	9761.3	7580.3	4828.1
77.5°	153.4	133.8	137.9	172.9	876.9	2395.0	1702.4	5010.3	4846.7	2658.5	1028.2
80°	87.5	77.2	82.3	151.3	319.1	2234.5	1605.6	2031.7	1732.2	450.8	284.1
82.5°	46.3	39.1	47.3	124.5	222.3	1392.6	1608.7	981.9	778.1	152.3	193.5
85°	16.5	13.4	22.6	85.4	148.2	427.1	1491.4	825.4	648.4	74.1	147.2
87.5°	3.1	3.1	9.3	35.0	59.7	130.7	882.1	489.9	328.3	44.3	100.9
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°	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5
2.5°	3879.2	3834.9	3775.2	3702.2	3615.7	3539.5	3482.9	3424.3	3411.9	3391.3	3388.2
5°	3853.5	3777.3	3629.1	3459.3	3278.1	3114.5	2981.7	2863.3	2810.8	2765.6	2760.4
7.5°	3815.4	3701.1	3449.0	3175.2	2892.1	2634.8	2416.6	2262.3	2120.2	2052.3	2042.0
10°	3771.1	3607.5	3246.2	2866.4	2475.3	2112.0	1787.8	1516.1	1351.4	1253.6	1241.3
12.5°	3729.9	3515.9	3039.3	2546.3	2026.6	1540.8	1123.9	864.6	691.6	621.7	613.4
15°	3710.4	3441.8	2845.8	2219.0	1557.2	980.9	614.5	475.5	418.9	402.4	401.4
17.5°	3708.3	3379.0	2656.5	1880.4	1091.0	570.2	400.4	365.4	354.1	349.9	349.9
20°	3707.3	3319.3	2467.1	1529.4	692.7	379.8	333.5	325.2	317.0	311.9	311.9
22.5°	3718.6	3265.8	2269.5	1171.3	436.4	307.7	293.3	285.1	274.8	267.6	266.6
25°	3729.9	3224.6	2067.7	833.7	316.0	267.6	253.2	241.9	227.5	218.2	217.2
27.5°	3732.0	3173.1	1851.6	557.8	264.5	233.6	215.1	197.6	181.1	171.9	170.9
30°	3701.1	3086.7	1611.8	376.7	233.6	202.8	178.1	159.5	144.1	136.9	136.9
32.5°	3640.4	2979.6	1348.3	284.1	207.9	173.9	147.2	129.7	119.4	116.3	115.3
35°	3585.9	2864.4	1077.6	240.8	186.3	147.2	120.4	109.1	102.9	101.9	100.9
37.5°	3553.9	2771.7	823.4	218.2	165.7	123.5	101.9	93.7	90.6	88.5	89.5
40°	3578.6	2694.5	608.3	199.7	145.1	102.9	86.5	82.3	79.3	78.2	78.2
42.5°	3686.7	2681.2	451.8	183.2	125.6	85.4	75.1	72.0	70.0	69.0	70.0
45°	3970.8	2763.5	351.0	167.8	106.0	72.0	63.8	62.8	61.8	61.8	61.8
47.5°	4397.9	2933.3	292.3	150.3	88.5	61.8	55.6	54.5	53.5	54.5	54.5
50°	5121.5	3244.1	261.4	132.8	73.1	52.5	47.3	47.3	47.3	47.3	48.4
52.5°	6221.7	3855.5	240.8	115.3	59.7	44.3	40.1	40.1	41.2	41.2	42.2
55°	7447.5	4666.5	222.3	97.8	50.4	37.1	32.9	34.0	35.0	36.0	36.0
57.5°	8777.3	5565.1	206.9	80.3	43.2	29.8	27.8	28.8	29.8	31.9	31.9
60°	10381.9	6537.7	184.2	62.8	36.0	23.7	21.6	23.7	26.8	28.8	29.8
62.5°	12143.9	7478.4	155.4	49.4	29.8	18.5	17.5	21.6	25.7	27.8	28.8
65°	13348.1	7773.8	119.4	40.1	22.6	13.4	14.4	19.6	24.7	27.8	27.8
67°	12860.3	7048.2	97.8	34.0	18.5	10.3	13.4	19.6	24.7	26.8	27.8
67.5°	12521.7	6764.1	93.7	32.9	17.5	10.3	13.4	19.6	24.7	27.8	27.8
70°	10188.4	5081.3	78.2	24.7	14.4	9.3	11.3	18.5	23.7	26.8	26.8
72.5°	7079.1	3133.0	70.0	17.5	12.4	8.2	10.3	17.5	22.6	25.7	26.8
75°	3365.6	1134.2	59.7	13.4	11.3	7.2	9.3	17.5	22.6	25.7	25.7
77.5°	686.5	263.5	48.4	11.3	9.3	7.2	8.2	16.5	21.6	24.7	24.7
80°	225.4	101.9	36.0	10.3	9.3	7.2	8.2	15.4	21.6	23.7	24.7
82.5°	162.6	51.5	23.7	10.3	9.3	7.2	7.2	15.4	20.6	23.7	23.7
85°	124.5	36.0	15.4	10.3	9.3	7.2	7.2	14.4	19.6	22.6	22.6
87.5°	82.3	14.4	12.4	10.3	9.3	7.2	7.2	14.4	18.5	21.6	22.6
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)