

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: P299738

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299738
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-08-LED-E1-SL2-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 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: 22870.8 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 257
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

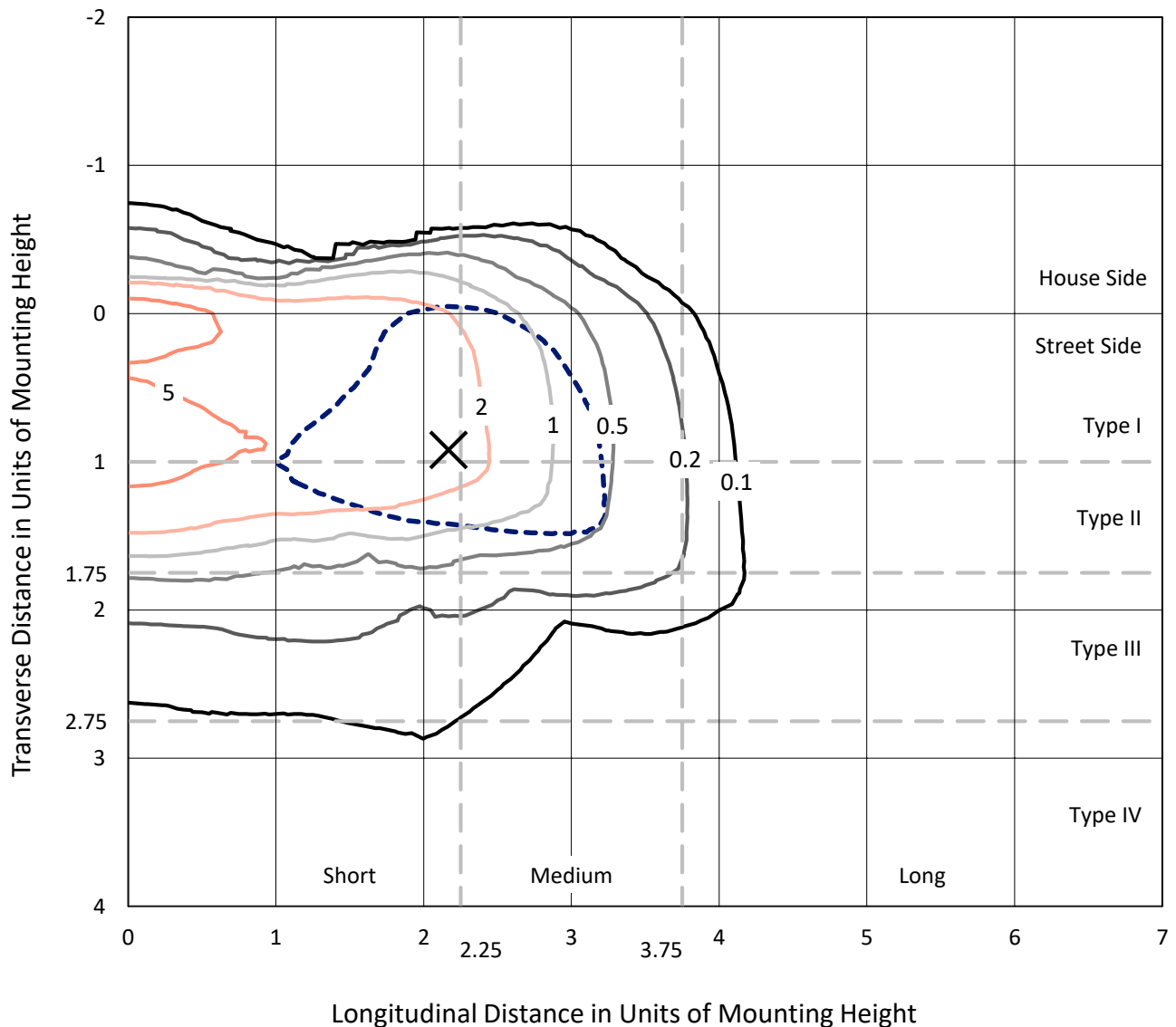


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

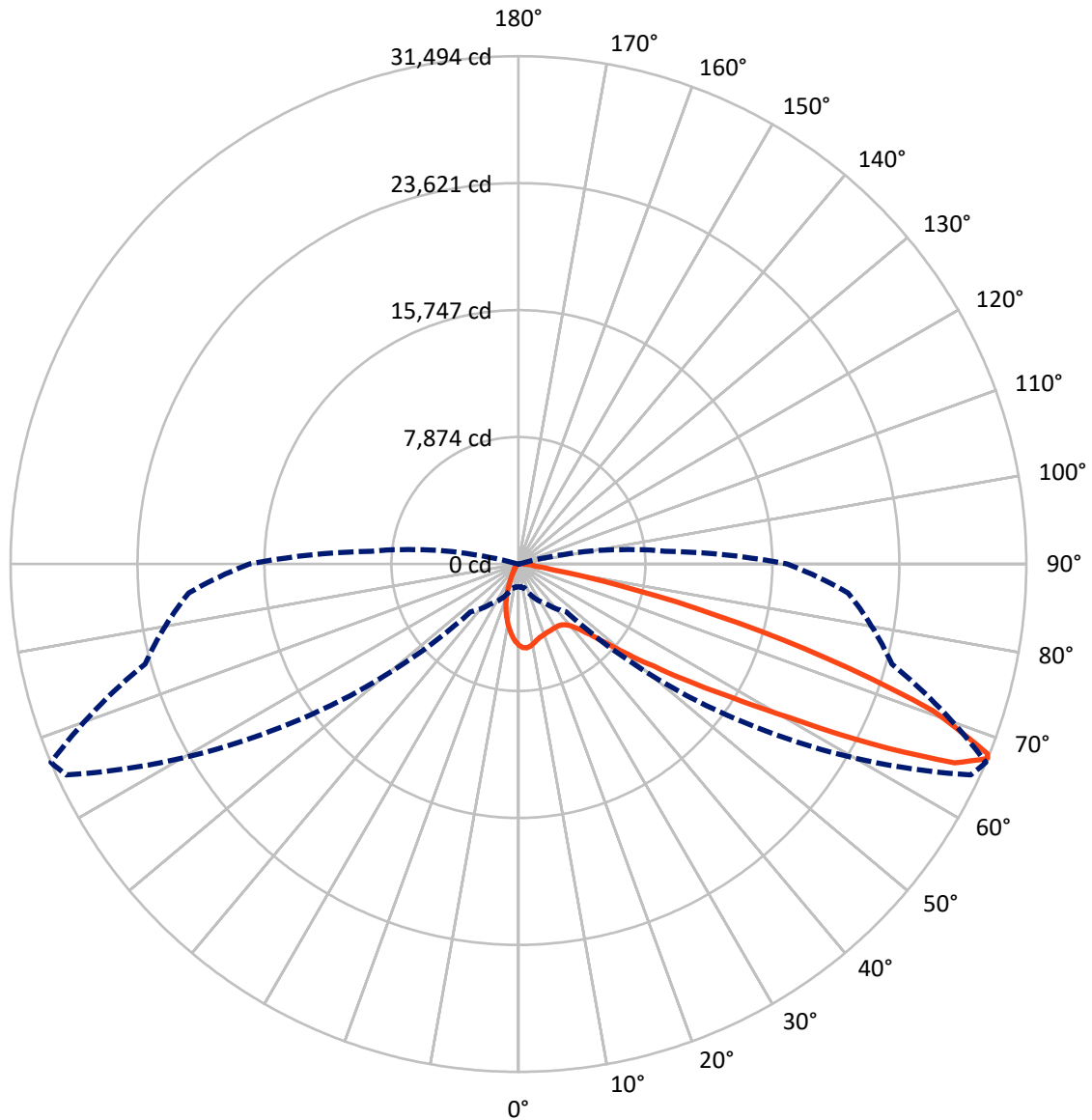


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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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	2374.7	0.0	2374.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20496.1	0.0	20496.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	22870.8	0.0	22870.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	1.8
10°-20°	873.5	3.8
20°-30°	1270.0	5.6
30°-40°	1981.3	8.7
40°-50°	3509.7	15.3
50°-60°	5553.8	24.3
60°-70°	6361.1	27.8
70°-80°	2638.5	11.5
80°-90°	272.5	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°	22870.8	100.0
0°-180°	22870.8	100.0



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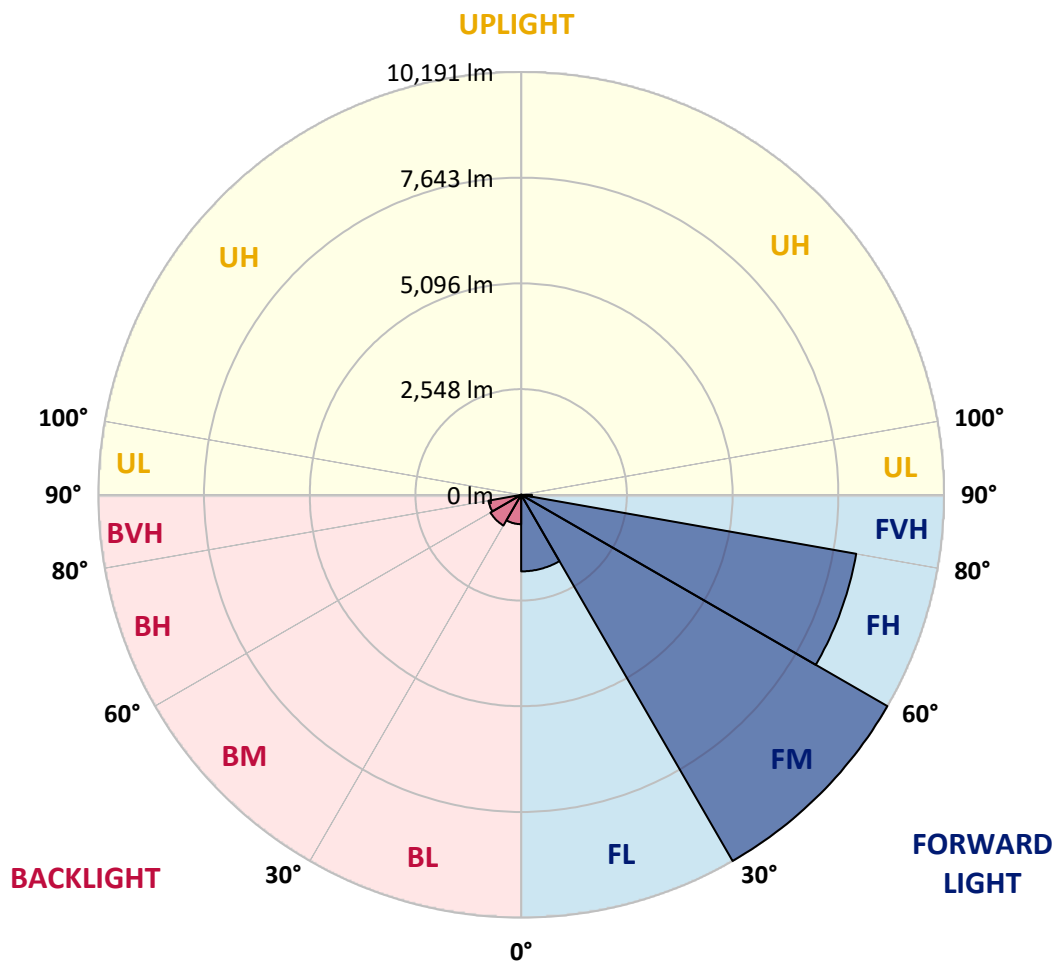
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.3	8.1			
FM (30°-60°)	10191.3	44.6			
FH (60°-80°)	8199.2	35.9			G4/12000
FVH (80°-90°)	260.3	1.1			G3/500
BL (0°-30°)	708.6	3.1	B2/1000		
BM (30°-60°)	853.4	3.7	B1/1000		
BH (60°-80°)	800.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9
2.5°	5214.6	5225.3	5224.0	5232.0	5250.6	5252.0	5233.3	5197.3	5189.3	5142.6	5061.2
5°	4809.1	4839.8	4858.4	4934.5	5019.8	5122.6	5199.9	5228.0	5224.0	5190.6	5067.9
7.5°	4346.2	4376.9	4398.2	4487.6	4601.0	4777.1	4978.5	5143.9	5158.6	5194.6	5062.5
10°	4038.0	4043.4	4072.7	4158.1	4276.8	4456.9	4697.0	4986.5	5030.5	5162.6	5049.2
12.5°	3784.6	3788.6	3827.3	3919.3	4046.0	4227.5	4479.6	4814.4	4882.4	5122.6	5046.5
15°	3604.5	3619.1	3653.8	3749.9	3884.6	4064.7	4323.5	4687.7	4769.1	5107.9	5070.5
17.5°	3544.4	3560.5	3571.1	3640.5	3763.2	3939.3	4204.8	4605.0	4697.0	5115.9	5117.2
20°	3607.1	3619.1	3595.1	3612.5	3688.5	3845.9	4104.7	4534.3	4643.7	5125.2	5177.3
22.5°	3840.6	3845.9	3780.6	3704.5	3691.2	3777.9	4026.0	4478.2	4595.6	5150.6	5248.0
25°	4240.8	4231.5	4124.7	3960.7	3805.9	3765.9	3979.3	4443.6	4571.6	5177.3	5321.3
27.5°	4723.7	4737.0	4590.3	4351.5	4056.7	3845.9	3972.7	4428.9	4561.0	5195.9	5385.4
30°	5310.7	5329.3	5161.3	4861.1	4438.2	4043.4	4034.0	4426.2	4554.3	5183.9	5390.7
32.5°	5909.6	5932.3	5800.2	5490.8	4947.8	4374.2	4172.8	4455.6	4567.6	5142.6	5360.0
35°	6536.6	6568.6	6480.6	6215.1	5638.8	4851.8	4416.9	4544.9	4630.3	5138.6	5329.3
37.5°	7402.4	7431.7	7266.3	6984.8	6475.2	5492.1	4809.1	4713.0	4778.4	5202.6	5337.3
40°	8695.0	8691.0	8264.1	7833.3	7394.4	6305.8	5360.0	5017.2	5050.5	5396.0	5436.1
42.5°	10103.7	10097.1	9466.1	8811.1	8414.9	7307.7	6084.4	5542.8	5520.1	5752.2	5692.2
45°	11189.6	11188.3	10673.3	9935.6	9643.5	8457.6	7020.9	6273.8	6239.1	6331.2	6164.4
47.5°	11652.5	11660.5	11401.7	10882.8	11005.5	10013.0	8201.4	7333.0	7281.0	7243.6	6990.2
50°	11292.3	11308.3	11329.7	11228.3	12004.7	12103.4	9784.9	8825.8	8800.4	8633.7	8237.5
52.5°	10115.7	10197.1	10447.9	10769.4	12351.5	14109.7	12267.5	10680.0	10543.9	10366.5	9930.3
55°	8133.4	8222.8	8699.0	9479.4	11835.3	15427.7	15746.6	13070.5	12843.8	12314.2	11684.5
57.5°	5382.7	5521.4	6212.4	7204.9	10335.8	15639.8	19217.6	16388.2	15598.5	14148.4	13438.7
60°	2965.5	3098.9	3848.6	4747.7	7465.1	14591.3	21552.1	20707.7	19312.3	16198.8	15569.1
62.5°	1826.2	1898.3	2451.9	3288.3	4476.9	11516.4	22035.0	26135.8	24520.3	18838.8	18142.4
65°	1454.1	1484.7	1755.5	2688.0	3209.6	6850.1	20475.6	30273.8	29734.9	22035.0	20446.2
67°	1411.4	1423.4	1551.4	2307.8	3025.5	4199.4	17153.9	30947.5	31494.4	23969.3	20518.3
67.5°	1420.7	1434.1	1555.4	2202.4	3020.2	3859.3	16009.4	30682.0	31373.0	24122.8	20199.5
70°	1370.0	1411.4	1780.9	2201.1	2872.1	3206.9	9587.5	26584.0	27303.0	22413.9	17139.3
72.5°	485.6	488.2	769.7	1780.9	3122.9	3241.6	4814.4	19488.4	20020.7	17145.9	12356.9
75°	288.1	245.5	256.1	506.9	2984.2	3148.2	2777.4	12452.9	12651.7	9824.9	6257.8
77.5°	198.8	173.4	178.8	224.1	1136.6	3104.2	2206.4	6493.9	6281.8	3445.7	1332.7
80°	113.4	100.1	106.7	196.1	413.5	2896.1	2081.0	2633.3	2245.1	584.3	368.2
82.5°	60.0	50.7	61.4	161.4	288.1	1804.9	2085.0	1272.6	1008.5	197.4	250.8
85°	21.3	17.3	29.3	110.7	192.1	553.6	1933.0	1069.9	840.4	96.0	190.8
87.5°	4.0	4.0	12.0	45.4	77.4	169.4	1143.2	635.0	425.5	57.4	130.7
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°	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9	5043.9
2.5°	5027.9	4970.5	4893.1	4798.4	4686.3	4587.6	4514.3	4438.2	4422.2	4395.5	4391.5
5°	4994.5	4895.8	4703.7	4483.6	4248.8	4036.7	3864.6	3711.2	3643.2	3584.5	3577.8
7.5°	4945.1	4797.1	4470.2	4115.4	3748.5	3415.0	3132.2	2932.1	2748.0	2660.0	2646.7
10°	4887.8	4675.7	4207.4	3715.2	3208.3	2737.4	2317.2	1965.0	1751.5	1624.8	1608.8
12.5°	4834.4	4556.9	3939.3	3300.3	2626.6	1997.0	1456.7	1120.6	896.4	805.7	795.1
15°	4809.1	4460.9	3688.5	2876.1	2018.3	1271.3	796.4	616.3	542.9	521.6	520.3
17.5°	4806.4	4379.5	3443.1	2437.2	1414.0	739.0	518.9	473.6	458.9	453.6	453.6
20°	4805.1	4302.2	3197.6	1982.3	897.8	492.2	432.2	421.5	410.9	404.2	404.2
22.5°	4819.7	4232.8	2941.5	1518.1	565.6	398.9	380.2	369.5	356.2	346.8	345.5
25°	4834.4	4179.4	2680.0	1080.5	409.5	346.8	328.2	313.5	294.8	282.8	281.5
27.5°	4837.1	4112.7	2399.9	723.0	342.8	302.8	278.8	256.1	234.8	222.8	221.4
30°	4797.1	4000.7	2089.0	488.2	302.8	262.8	230.8	206.8	186.8	177.4	177.4
32.5°	4718.4	3861.9	1747.5	368.2	269.5	225.4	190.8	168.1	154.7	150.7	149.4
35°	4647.7	3712.5	1396.7	312.2	241.5	190.8	156.1	141.4	133.4	132.1	130.7
37.5°	4606.3	3592.5	1067.2	282.8	214.8	160.1	132.1	121.4	117.4	114.7	116.1
40°	4638.3	3492.4	788.4	258.8	188.1	133.4	112.1	106.7	102.7	101.4	101.4
42.5°	4778.4	3475.1	585.6	237.5	162.7	110.7	97.4	93.4	90.7	89.4	90.7
45°	5146.6	3581.8	454.9	217.4	137.4	93.4	82.7	81.4	80.0	80.0	80.0
47.5°	5700.2	3801.9	378.9	194.8	114.7	80.0	72.0	70.7	69.4	70.7	70.7
50°	6638.0	4204.8	338.8	172.1	94.7	68.0	61.4	61.4	61.4	61.4	62.7
52.5°	8064.0	4997.2	312.2	149.4	77.4	57.4	52.0	52.0	53.4	53.4	54.7
55°	9652.8	6048.4	288.1	126.7	65.4	48.0	42.7	44.0	45.4	46.7	46.7
57.5°	11376.4	7212.9	268.1	104.1	56.0	38.7	36.0	37.4	38.7	41.4	41.4
60°	13456.1	8473.6	238.8	81.4	46.7	30.7	28.0	30.7	34.7	37.4	38.7
62.5°	15739.9	9692.9	201.4	64.0	38.7	24.0	22.7	28.0	33.4	36.0	37.4
65°	17300.7	10075.7	154.7	52.0	29.3	17.3	18.7	25.3	32.0	36.0	36.0
67°	16668.3	9135.2	126.7	44.0	24.0	13.3	17.3	25.3	32.0	34.7	36.0
67.5°	16229.5	8767.1	121.4	42.7	22.7	13.3	17.3	25.3	32.0	36.0	36.0
70°	13205.3	6586.0	101.4	32.0	18.7	12.0	14.7	24.0	30.7	34.7	34.7
72.5°	9175.3	4060.7	90.7	22.7	16.0	10.7	13.3	22.7	29.3	33.4	34.7
75°	4362.2	1470.1	77.4	17.3	14.7	9.3	12.0	22.7	29.3	33.4	33.4
77.5°	889.8	341.5	62.7	14.7	12.0	9.3	10.7	21.3	28.0	32.0	32.0
80°	292.1	132.1	46.7	13.3	12.0	9.3	10.7	20.0	28.0	30.7	32.0
82.5°	210.8	66.7	30.7	13.3	12.0	9.3	9.3	20.0	26.7	30.7	30.7
85°	161.4	46.7	20.0	13.3	12.0	9.3	9.3	18.7	25.3	29.3	29.3
87.5°	106.7	18.7	16.0	13.3	12.0	9.3	9.3	18.7	24.0	28.0	29.3
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)