

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: P299608

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299608
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-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 1050mA 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: 26786.1 lumens
Efficiency: N/A
Efficacy: 80.4 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 - G4

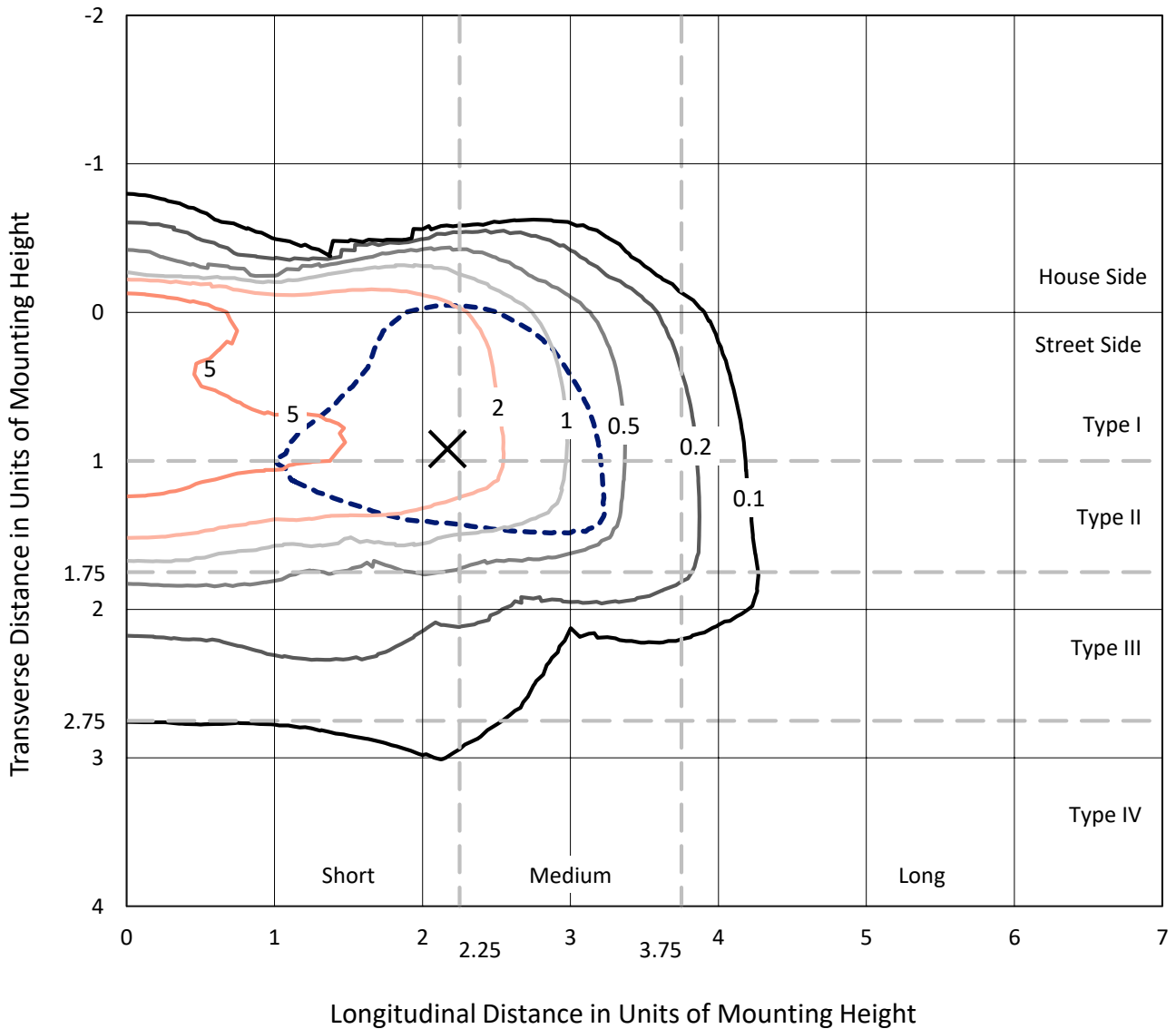
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

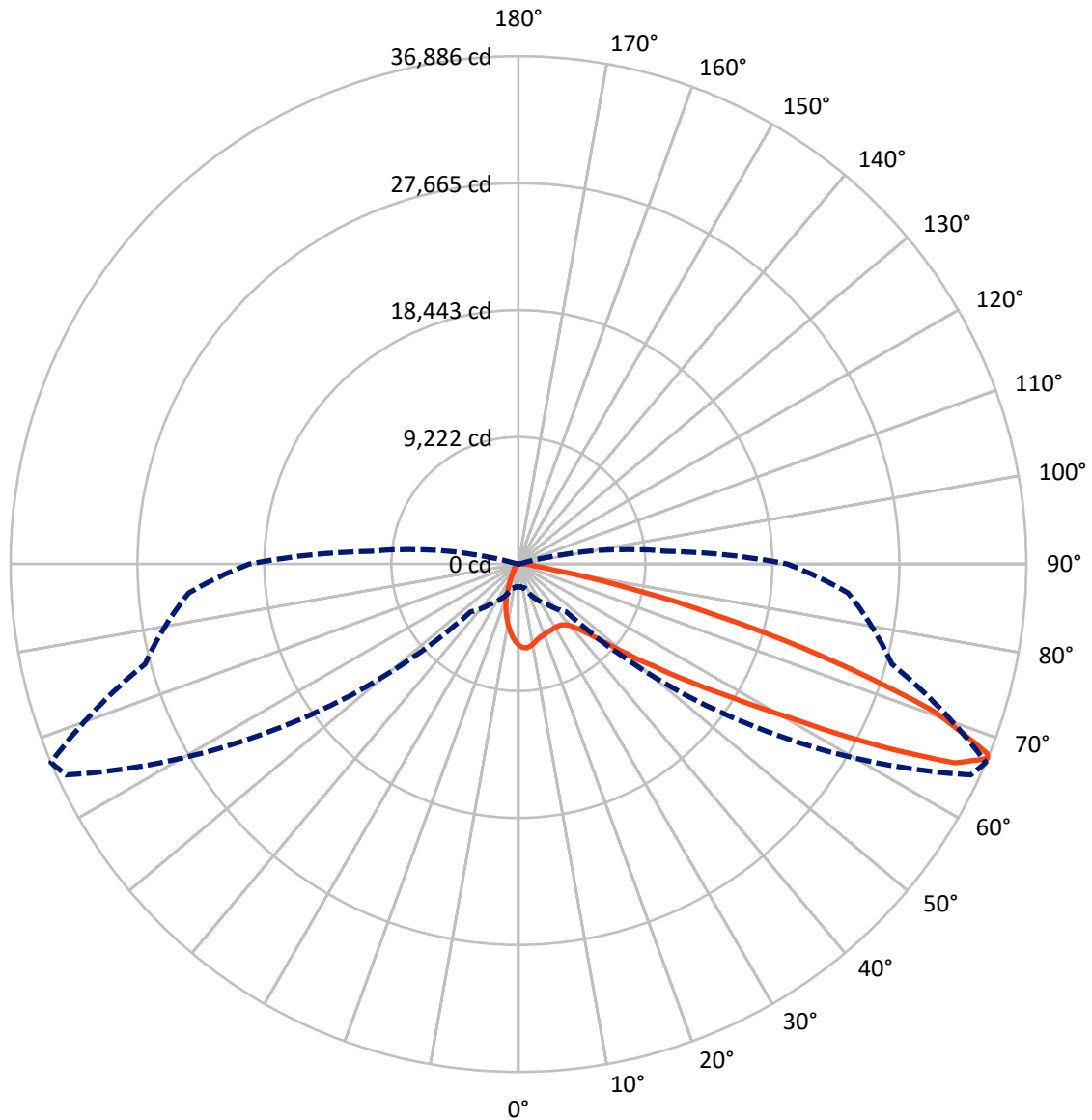
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	2781.2	0.0	2781.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	24004.9	0.0	24004.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	26786.1	0.0	26786.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	1.8
10°-20°	1023.1	3.8
20°-30°	1487.4	5.6
30°-40°	2320.4	8.7
40°-50°	4110.5	15.3
50°-60°	6504.5	24.3
60°-70°	7450.0	27.8
70°-80°	3090.2	11.5
80°-90°	319.2	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°	26786.1	100.0
0°-180°	26786.1	100.0

Coefficient of Utilization



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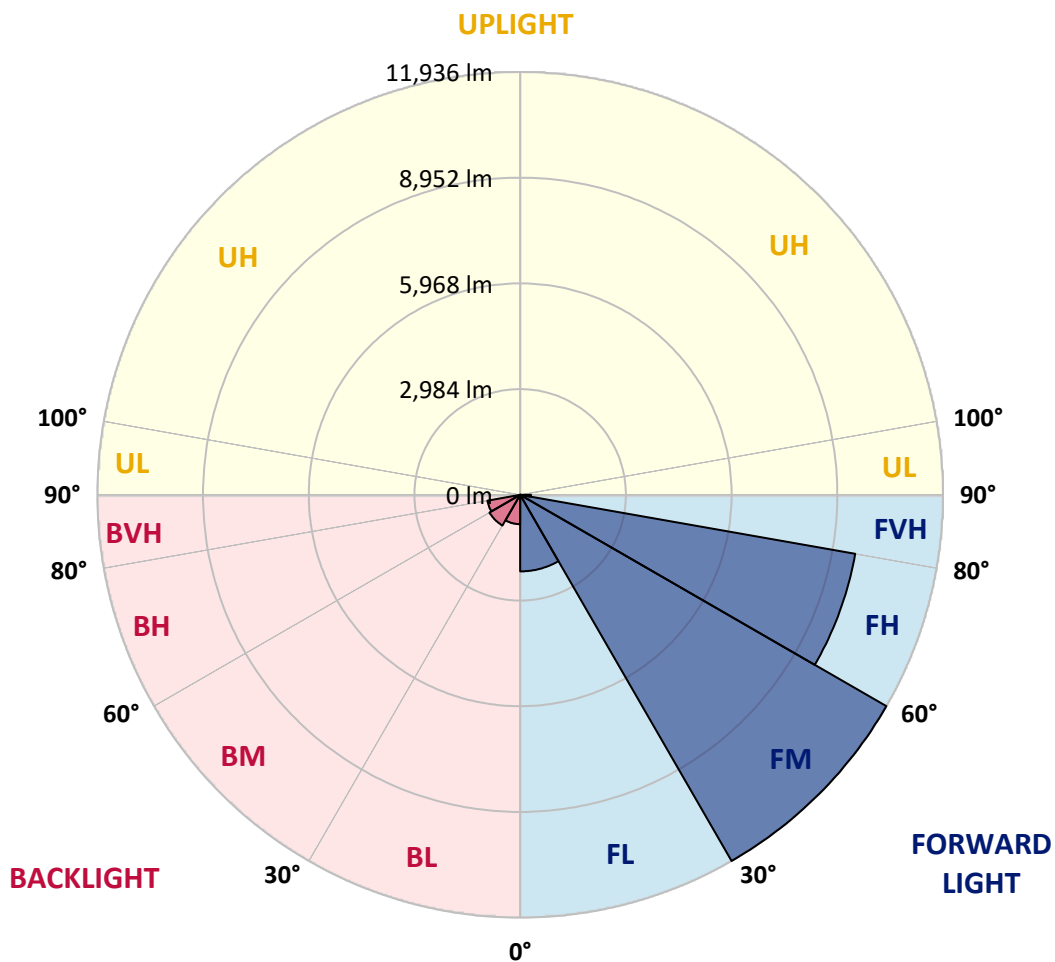
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2161.2	8.1			
FM	(30°-60°)	11936.0	44.6			
FH	(60°-80°)	9602.9	35.9			G4/12000
FVH	(80°-90°)	304.8	1.1			G3/500
BL	(0°-30°)	829.9	3.1	B2/1000		
BM	(30°-60°)	999.5	3.7	B1/1000		
BH	(60°-80°)	937.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	14.4	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°	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3
2.5°	6107.3	6119.8	6118.2	6127.6	6149.5	6151.1	6129.2	6087.0	6077.6	6022.9	5927.6
5°	5632.4	5668.3	5690.2	5779.2	5879.2	5999.5	6090.1	6122.9	6118.2	6079.2	5935.5
7.5°	5090.2	5126.1	5151.1	5255.8	5388.6	5594.9	5830.8	6024.5	6041.7	6083.9	5929.2
10°	4729.3	4735.6	4769.9	4869.9	5009.0	5219.9	5501.1	5840.1	5891.7	6046.4	5913.6
12.5°	4432.5	4437.1	4482.4	4590.2	4738.7	4951.2	5246.4	5638.6	5718.3	5999.5	5910.5
15°	4221.5	4238.7	4279.3	4391.8	4549.6	4760.5	5063.6	5490.2	5585.5	5982.3	5938.6
17.5°	4151.2	4170.0	4182.5	4263.7	4407.5	4613.7	4924.6	5393.3	5501.1	5991.7	5993.3
20°	4224.7	4238.7	4210.6	4230.9	4320.0	4504.3	4807.4	5310.5	5438.6	6002.6	6063.6
22.5°	4498.1	4504.3	4427.8	4338.7	4323.1	4424.6	4715.2	5244.9	5382.4	6032.3	6146.4
25°	4966.8	4955.8	4830.9	4638.7	4457.4	4410.6	4660.6	5204.3	5354.2	6063.6	6232.3
27.5°	5532.4	5548.0	5376.1	5096.5	4751.2	4504.3	4652.7	5187.1	5341.8	6085.4	6307.3
30°	6219.8	6241.7	6044.8	5693.3	5198.0	4735.6	4724.6	5184.0	5333.9	6071.4	6313.5
32.5°	6921.3	6947.9	6793.2	6430.7	5794.8	5123.0	4887.1	5218.3	5349.6	6022.9	6277.6
35°	7655.6	7693.1	7590.0	7279.1	6604.1	5682.3	5173.0	5323.0	5423.0	6018.3	6241.7
37.5°	8669.6	8704.0	8510.2	8180.6	7583.8	6432.3	5632.4	5519.9	5596.4	6093.3	6251.1
40°	10183.5	10178.9	9678.9	9174.2	8660.2	7385.3	6277.6	5876.1	5915.1	6319.8	6366.7
42.5°	11833.4	11825.6	11086.6	10319.5	9855.4	8558.7	7126.0	6491.7	6465.1	6736.9	6666.6
45°	13105.2	13103.6	12500.5	11636.5	11294.4	9905.4	8222.8	7347.8	7307.2	7415.0	7219.7
47.5°	13647.3	13656.7	13353.6	12745.8	12889.6	11727.2	9605.5	8588.4	8527.4	8483.7	8186.8
50°	13225.5	13244.2	13269.2	13150.5	14059.8	14175.4	11460.0	10336.7	10307.0	10111.7	9647.6
52.5°	11847.5	11942.8	12236.5	12613.0	14466.0	16525.2	14367.6	12508.4	12349.0	12141.2	11630.3
55°	9525.8	9630.5	10188.2	11102.2	13861.4	18068.8	18442.2	15308.1	15042.5	14422.3	13684.8
57.5°	6304.2	6466.7	7276.0	8438.4	12105.3	18317.3	22507.5	19193.7	18268.8	16570.5	15739.3
60°	3473.2	3629.4	4507.4	5560.5	8743.0	17089.2	25241.7	24252.7	22618.5	18971.9	18234.4
62.5°	2138.9	2223.3	2871.6	3851.2	5243.3	13488.0	25807.3	30610.0	28718.0	22063.8	21248.3
65°	1703.0	1738.9	2056.1	3148.2	3759.1	8022.8	23980.9	35456.5	34825.3	25807.3	23946.5
67°	1653.0	1667.1	1817.0	2702.9	3543.5	4918.3	20090.5	36245.5	36886.0	28072.7	24030.8
67.5°	1663.9	1679.6	1821.7	2579.5	3537.2	4519.9	18750.0	35934.6	36743.9	28252.4	23657.4
70°	1604.6	1653.0	2085.8	2577.9	3363.8	3755.9	11228.8	31135.0	31977.1	26251.0	20073.4
72.5°	568.7	571.8	901.5	2085.8	3657.5	3796.6	5638.6	22824.7	23448.1	20081.2	14472.3
75°	337.5	287.5	300.0	593.7	3495.0	3687.2	3252.9	14584.7	14817.5	11506.9	7329.1
77.5°	232.8	203.1	209.4	262.5	1331.1	3635.6	2584.2	7605.6	7357.2	4035.6	1560.8
80°	132.8	117.2	125.0	229.7	484.3	3391.9	2437.3	3084.1	2629.5	684.3	431.2
82.5°	70.3	59.4	71.9	189.0	337.5	2113.9	2442.0	1490.5	1181.2	231.2	293.7
85°	25.0	20.3	34.4	129.7	225.0	648.4	2263.9	1253.0	984.3	112.5	223.4
87.5°	4.7	4.7	14.1	53.1	90.6	198.4	1339.0	743.7	498.4	67.2	153.1
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°	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3	5907.3
2.5°	5888.6	5821.4	5730.8	5619.9	5488.6	5373.0	5287.1	5198.0	5179.3	5148.0	5143.3
5°	5849.5	5733.9	5508.9	5251.1	4976.2	4727.7	4526.2	4346.5	4266.8	4198.1	4190.3
7.5°	5791.7	5618.3	5235.5	4819.9	4390.3	3999.7	3668.5	3434.1	3218.5	3115.4	3099.7
10°	5724.5	5476.1	4927.7	4351.2	3757.5	3206.0	2713.8	2301.4	2051.4	1903.0	1884.2
12.5°	5662.0	5337.1	4613.7	3865.3	3076.3	2338.9	1706.1	1312.4	1049.9	943.7	931.2
15°	5632.4	5224.6	4320.0	3368.5	2363.9	1488.9	932.7	721.8	635.9	610.9	609.3
17.5°	5629.2	5129.3	4032.5	2854.5	1656.1	865.6	607.8	554.6	537.5	531.2	531.2
20°	5627.7	5038.7	3745.0	2321.7	1051.5	576.5	506.2	493.7	481.2	473.4	473.4
22.5°	5644.9	4957.4	3445.0	1778.0	662.4	467.1	445.3	432.8	417.2	406.2	404.7
25°	5662.0	4894.9	3138.8	1265.5	479.6	406.2	384.3	367.2	345.3	331.2	329.7
27.5°	5665.2	4816.8	2810.7	846.8	401.5	354.7	326.5	300.0	275.0	260.9	259.4
30°	5618.3	4685.6	2446.7	571.8	354.7	307.8	270.3	242.2	218.7	207.8	207.8
32.5°	5526.1	4523.1	2046.7	431.2	315.6	264.0	223.4	196.9	181.2	176.5	175.0
35°	5443.3	4348.1	1635.8	365.6	282.8	223.4	182.8	165.6	156.2	154.7	153.1
37.5°	5394.9	4207.5	1249.9	331.2	251.5	187.5	154.7	142.2	137.5	134.4	135.9
40°	5432.4	4090.3	923.4	303.1	220.3	156.2	131.2	125.0	120.3	118.7	118.7
42.5°	5596.4	4070.0	685.9	278.1	190.6	129.7	114.1	109.4	106.2	104.7	106.2
45°	6027.6	4195.0	532.8	254.7	160.9	109.4	96.9	95.3	93.7	93.7	93.7
47.5°	6676.0	4452.8	443.7	228.1	134.4	93.7	84.4	82.8	81.2	82.8	82.8
50°	7774.4	4924.6	396.8	201.5	110.9	79.7	71.9	71.9	71.9	71.9	73.4
52.5°	9444.5	5852.6	365.6	175.0	90.6	67.2	60.9	60.9	62.5	62.5	64.1
55°	11305.3	7083.8	337.5	148.4	76.6	56.2	50.0	51.6	53.1	54.7	54.7
57.5°	13323.9	8447.7	314.0	121.9	65.6	45.3	42.2	43.7	45.3	48.4	48.4
60°	15759.6	9924.2	279.7	95.3	54.7	35.9	32.8	35.9	40.6	43.7	45.3
62.5°	18434.4	11352.2	235.9	75.0	45.3	28.1	26.6	32.8	39.1	42.2	43.7
65°	20262.4	11800.6	181.2	60.9	34.4	20.3	21.9	29.7	37.5	42.2	42.2
67°	19521.8	10699.1	148.4	51.6	28.1	15.6	20.3	29.7	37.5	40.6	42.2
67.5°	19007.8	10267.9	142.2	50.0	26.6	15.6	20.3	29.7	37.5	42.2	42.2
70°	15465.9	7713.4	118.7	37.5	21.9	14.1	17.2	28.1	35.9	40.6	40.6
72.5°	10746.0	4755.9	106.2	26.6	18.7	12.5	15.6	26.6	34.4	39.1	40.6
75°	5109.0	1721.7	90.6	20.3	17.2	10.9	14.1	26.6	34.4	39.1	39.1
77.5°	1042.1	400.0	73.4	17.2	14.1	10.9	12.5	25.0	32.8	37.5	37.5
80°	342.2	154.7	54.7	15.6	14.1	10.9	12.5	23.4	32.8	35.9	37.5
82.5°	246.9	78.1	35.9	15.6	14.1	10.9	10.9	23.4	31.2	35.9	35.9
85°	189.0	54.7	23.4	15.6	14.1	10.9	10.9	21.9	29.7	34.4	34.4
87.5°	125.0	21.9	18.7	15.6	14.1	10.9	10.9	21.9	28.1	32.8	34.4
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)