

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: P299995

Luminaire Tested: **GLNA-AF-06-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
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-SL3-7050-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22320.3 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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

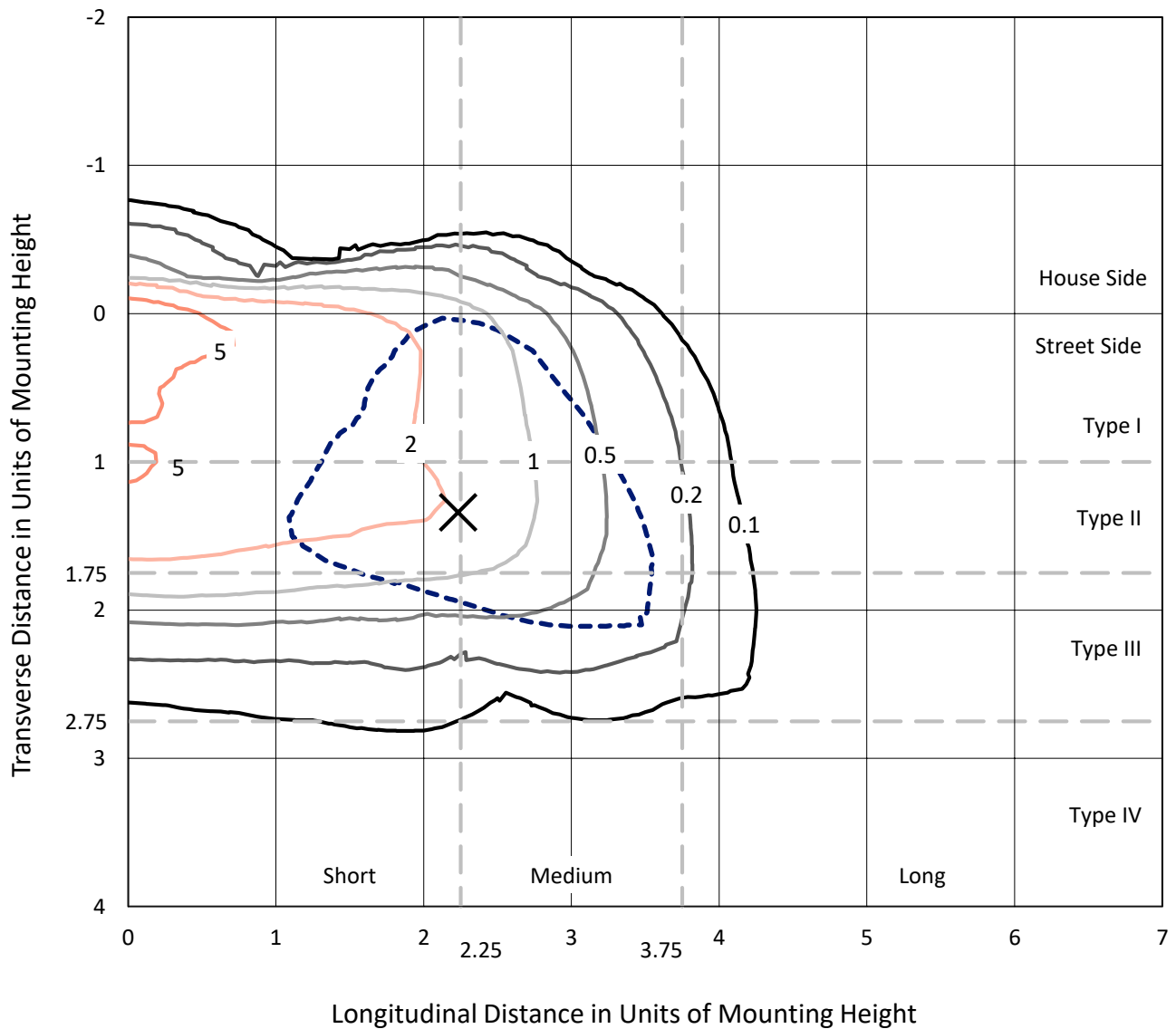


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

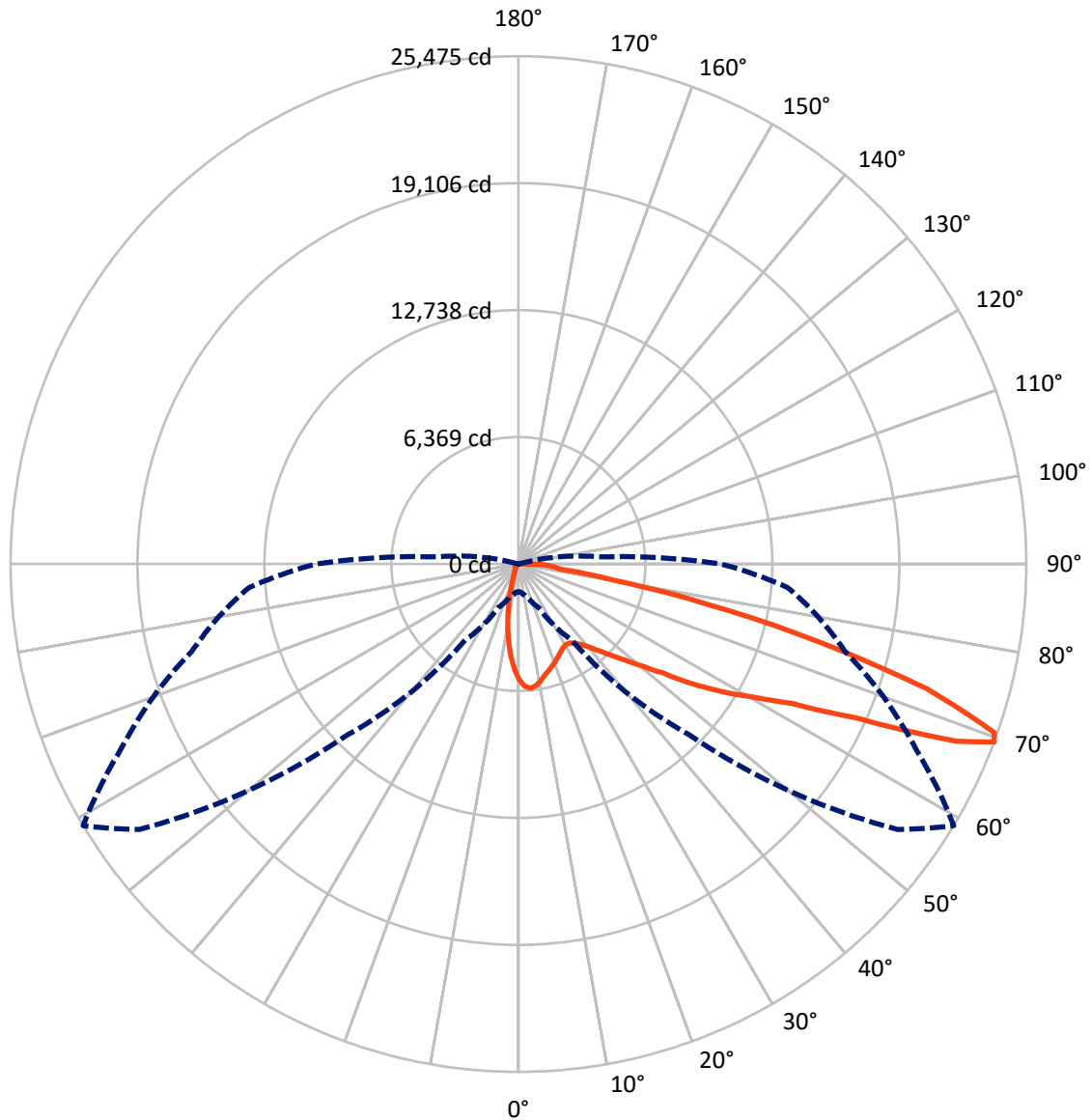


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1817.7	0.0	1817.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	20502.7	0.0	20502.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	22320.3	0.0	22320.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.6	2.1
10°-20°	974.4	4.4
20°-30°	1311.2	5.9
30°-40°	1903.8	8.5
40°-50°	3169.9	14.2
50°-60°	4945.0	22.2
60°-70°	6119.0	27.4
70°-80°	3101.1	13.9
80°-90°	324.5	1.5
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°	22320.3	100.0
0°-180°	22320.3	100.0



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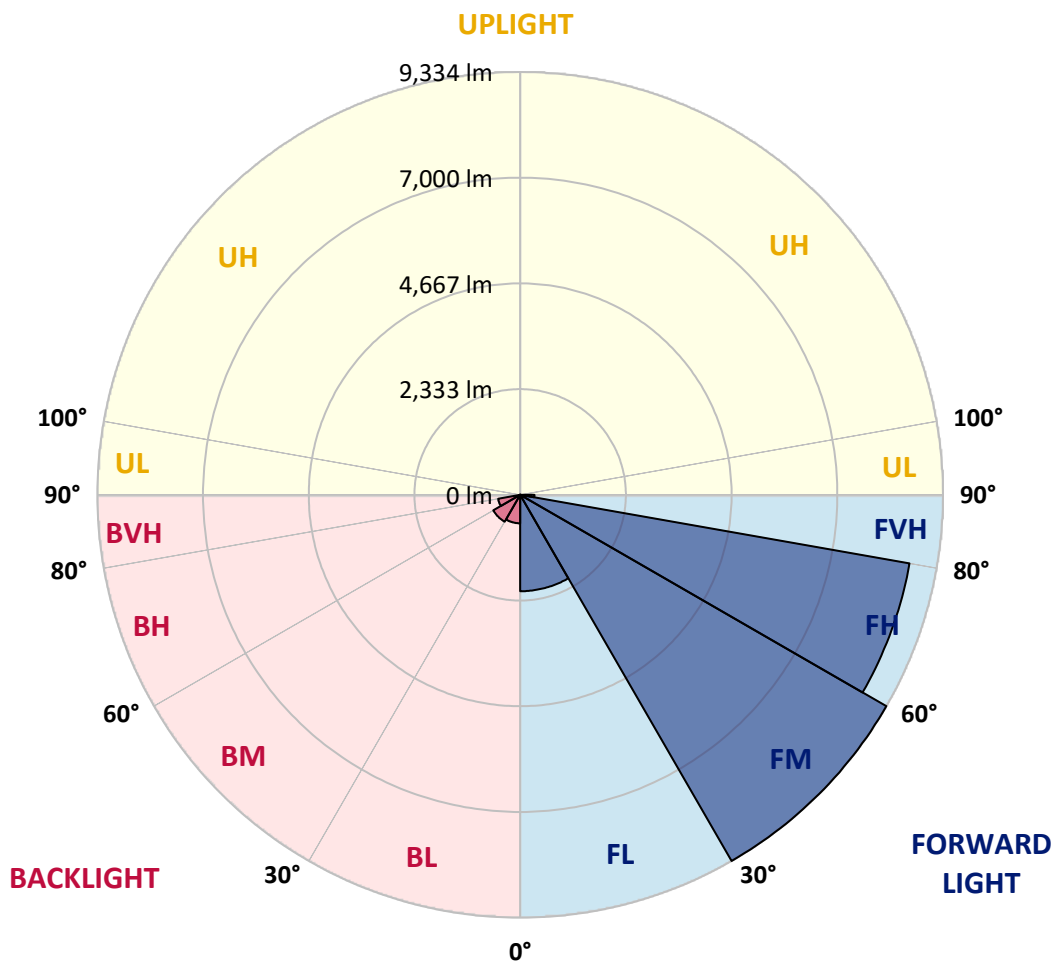
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2128.0	9.5			
FM	(30°-60°)	9333.7	41.8			
FH	(60°-80°)	8726.5	39.1			G4/12000
FVH	(80°-90°)	314.5	1.4			G3/500
BL	(0°-30°)	629.2	2.8	B2/1000		
BM	(30°-60°)	684.9	3.1	B1/1000		
BH	(60°-80°)	493.6	2.2	B1/500		G1/500
BVH	(80°-90°)	10.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6
2.5°	6367.5	6365.2	6337.3	6324.7	6301.7	6254.0	6179.5	6140.5	6077.4	5967.4	5819.9
5°	6309.4	6340.0	6356.0	6357.5	6374.0	6356.0	6289.1	6256.7	6169.5	5992.6	5727.8
7.5°	5915.8	5926.9	5973.9	6014.0	6092.3	6166.9	6190.9	6176.8	6125.2	5936.0	5583.7
10°	5494.3	5505.4	5561.2	5613.9	5720.1	5834.8	5955.9	5981.5	6002.9	5855.0	5445.0
12.5°	5130.5	5142.0	5198.9	5268.1	5391.9	5533.3	5721.3	5762.9	5857.7	5778.2	5333.8
15°	4817.5	4822.5	4878.3	4963.9	5111.8	5293.3	5506.9	5573.8	5719.0	5724.0	5236.7
17.5°	4551.2	4563.8	4598.2	4680.0	4841.6	5066.3	5315.1	5411.0	5581.0	5678.5	5142.0
20°	4388.4	4401.0	4399.9	4445.3	4590.6	4830.2	5123.2	5237.9	5445.0	5631.9	5057.5
22.5°	4357.1	4357.1	4324.2	4317.7	4403.7	4604.3	4923.8	5063.6	5322.3	5611.6	4998.3
25°	4469.4	4464.1	4382.3	4315.4	4319.2	4438.9	4730.4	4897.0	5219.2	5625.4	4966.6
27.5°	4706.7	4700.2	4596.7	4469.4	4367.0	4365.9	4584.1	4763.3	5137.0	5691.1	4979.2
30°	5034.6	5032.3	4920.0	4759.5	4574.1	4403.7	4533.6	4696.4	5083.9	5809.6	5008.2
32.5°	5393.0	5389.2	5304.8	5135.9	4900.8	4574.1	4586.7	4723.2	5099.2	5967.4	5078.9
35°	5773.3	5766.8	5730.1	5582.6	5323.9	4888.2	4761.0	4866.8	5195.1	6203.5	5217.6
37.5°	6184.4	6190.9	6217.3	6075.9	5804.6	5328.8	5052.6	5124.4	5388.1	6524.1	5443.5
40°	6791.6	6790.5	6799.3	6613.6	6352.6	5867.6	5459.9	5482.8	5711.4	6949.5	5787.0
42.5°	7893.3	7816.5	7583.0	7204.3	6941.8	6483.6	5973.9	5949.8	6106.5	7475.7	6267.7
45°	9374.1	9209.8	8604.1	7878.4	7542.5	7178.0	6605.9	6529.1	6628.9	8108.1	6861.2
47.5°	10647.4	10476.9	9620.2	8580.0	8179.9	7836.8	7346.9	7208.2	7241.0	8816.2	7613.2
50°	11080.3	10997.0	10248.8	9191.0	8797.1	8666.0	8206.7	8037.4	7990.8	9635.1	8485.3
52.5°	10930.1	10924.0	10425.3	9587.3	9362.6	9524.3	9288.1	9092.5	8920.9	10498.7	9372.6
55°	10689.0	10720.7	10497.2	9934.3	9926.7	10308.0	10767.3	10604.6	10107.4	11436.5	10137.6
57.5°	10024.1	10159.0	10457.1	10590.8	10901.1	11291.2	11999.3	12095.3	11507.2	12154.5	10772.3
60°	8133.3	8429.8	9404.3	10685.2	12157.2	13128.9	13486.2	13568.0	12655.5	12751.4	11629.4
62.5°	5773.3	6075.9	7311.7	9478.8	12175.9	15543.2	15701.1	15379.3	13920.3	13636.4	13107.5
65°	3064.3	3298.2	4307.8	6842.1	10556.8	16103.8	19574.7	18615.6	16151.6	15376.6	15017.0
67.5°	1567.5	1638.2	2039.8	3348.6	7257.5	14304.0	23046.8	23722.0	19997.4	17103.5	14924.9
69°	1387.1	1428.8	1695.1	2420.8	4647.1	12115.5	23216.1	25475.2	22010.8	16959.4	13563.0
70°	1342.8	1379.5	1621.8	2191.1	3632.6	10160.1	22568.4	25321.2	22525.6	16411.8	12545.8
72.5°	1139.9	1171.2	1444.1	1936.3	2952.4	5043.4	18332.8	21456.7	20213.3	13671.6	9081.0
75°	762.4	865.9	1386.0	1815.1	2746.4	2865.2	12086.5	15505.4	14403.7	9221.2	4730.4
77.5°	183.0	196.8	391.3	1444.1	2511.8	2521.7	6216.1	9638.9	7862.0	3286.7	1118.1
80°	98.6	94.8	109.7	286.6	2338.7	2366.5	2798.4	4678.8	2807.1	545.3	368.4
82.5°	69.5	65.7	70.7	120.0	736.0	2155.6	2024.5	2117.8	1163.6	209.4	165.5
85°	25.2	24.1	39.0	108.5	230.8	1239.3	2079.9	1746.7	942.7	95.9	121.1
87.5°	8.8	7.6	15.3	59.2	70.7	527.7	1283.6	1320.3	371.1	58.1	56.9
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°	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6	5809.6
2.5°	5758.0	5679.6	5536.0	5388.1	5251.6	5087.7	5005.6	4924.9	4890.9	4878.3	4819.1
5°	5591.4	5458.8	5153.4	4846.6	4563.8	4263.5	4065.5	3906.5	3812.9	3767.4	3695.6
7.5°	5378.1	5161.1	4697.6	4224.5	3783.9	3349.8	3028.0	2780.4	2610.0	2528.2	2453.7
10°	5171.0	4882.1	4223.3	3578.3	2979.9	2404.4	1960.0	1638.2	1432.6	1337.8	1277.5
12.5°	4985.7	4610.8	3765.2	2948.5	2197.3	1523.6	1071.5	815.5	687.8	643.5	622.1
15°	4820.2	4360.9	3332.2	2350.1	1488.0	870.9	585.8	498.7	478.4	478.4	475.8
17.5°	4663.5	4115.9	2914.1	1788.4	933.9	532.7	445.6	434.1	434.1	439.1	439.1
20°	4513.4	3882.5	2510.2	1283.6	588.1	422.6	402.8	400.1	402.8	408.9	408.9
22.5°	4384.6	3670.4	2133.1	880.8	436.8	381.0	371.1	367.2	368.4	372.2	374.9
25°	4288.7	3491.2	1777.3	596.9	376.0	347.0	335.9	329.4	324.4	324.4	326.7
27.5°	4228.3	3339.8	1432.6	434.1	338.2	315.6	297.7	287.7	276.3	270.2	272.5
30°	4184.0	3195.8	1109.3	354.6	303.0	280.1	257.6	241.1	224.7	217.1	219.7
32.5°	4167.5	3079.6	829.2	313.0	271.3	246.1	218.2	196.8	179.2	172.7	174.3
35°	4211.9	2987.5	607.2	282.8	246.1	214.4	183.0	159.0	145.2	141.4	142.5
37.5°	4328.0	2938.2	454.4	257.6	223.5	188.0	152.9	129.9	121.1	121.1	122.3
40°	4547.4	2937.1	364.9	240.0	203.3	162.8	126.1	109.7	104.7	107.4	108.5
42.5°	4868.0	3003.9	317.9	223.5	185.7	138.7	104.7	93.2	92.1	94.8	95.9
45°	5305.9	3126.2	292.7	209.4	166.6	116.2	88.3	80.6	80.6	84.5	86.0
47.5°	5842.4	3305.4	271.3	195.7	147.5	97.1	75.7	70.7	71.8	75.7	76.8
50°	6488.6	3531.7	249.9	180.4	133.7	80.6	65.7	61.9	63.1	68.0	69.5
52.5°	7224.6	3835.8	232.3	166.6	116.2	66.9	55.4	53.1	55.4	60.8	61.9
55°	7855.5	4108.3	210.9	155.1	93.2	55.4	45.5	45.5	48.1	54.3	55.4
57.5°	8462.7	4393.4	191.8	133.7	73.4	44.3	37.8	39.0	42.8	49.3	50.4
60°	9353.8	4876.8	169.3	112.3	55.4	35.2	31.7	32.9	37.8	44.3	45.5
62.5°	10867.1	5612.8	146.4	93.2	42.8	27.9	25.2	27.9	34.0	41.7	42.8
65°	12232.8	5912.0	120.0	78.3	32.9	21.4	21.4	25.2	32.9	40.5	41.7
67.5°	11471.6	4976.5	93.2	61.9	25.2	16.4	17.6	24.1	31.7	40.5	41.7
69°	10145.2	4069.3	79.5	49.3	21.4	15.3	16.4	24.1	31.7	39.0	40.5
70°	9111.6	3435.8	70.7	41.7	19.1	15.3	16.4	22.5	31.7	39.0	40.5
72.5°	6102.7	1855.3	56.9	30.2	17.6	13.8	13.8	22.5	30.2	37.8	39.0
75°	2622.6	512.4	45.5	21.4	15.3	12.6	12.6	21.4	29.0	36.7	39.0
77.5°	479.6	129.9	36.7	19.1	15.3	12.6	11.5	20.3	27.9	35.2	36.7
80°	190.7	64.2	29.0	16.4	13.8	11.5	9.9	19.1	26.4	34.0	35.2
82.5°	115.0	36.7	24.1	15.3	13.8	9.9	8.8	16.4	25.2	32.9	34.0
85°	93.2	25.2	19.1	15.3	12.6	9.9	7.6	15.3	22.5	31.7	32.9
87.5°	45.5	17.6	17.6	13.8	12.6	9.9	7.6	13.8	21.4	30.2	31.7
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)