

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-08-LED-E1-SL3-7050-600-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-08-LED-E1-SL3-7050-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K CCT 600mA 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: 24387.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-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

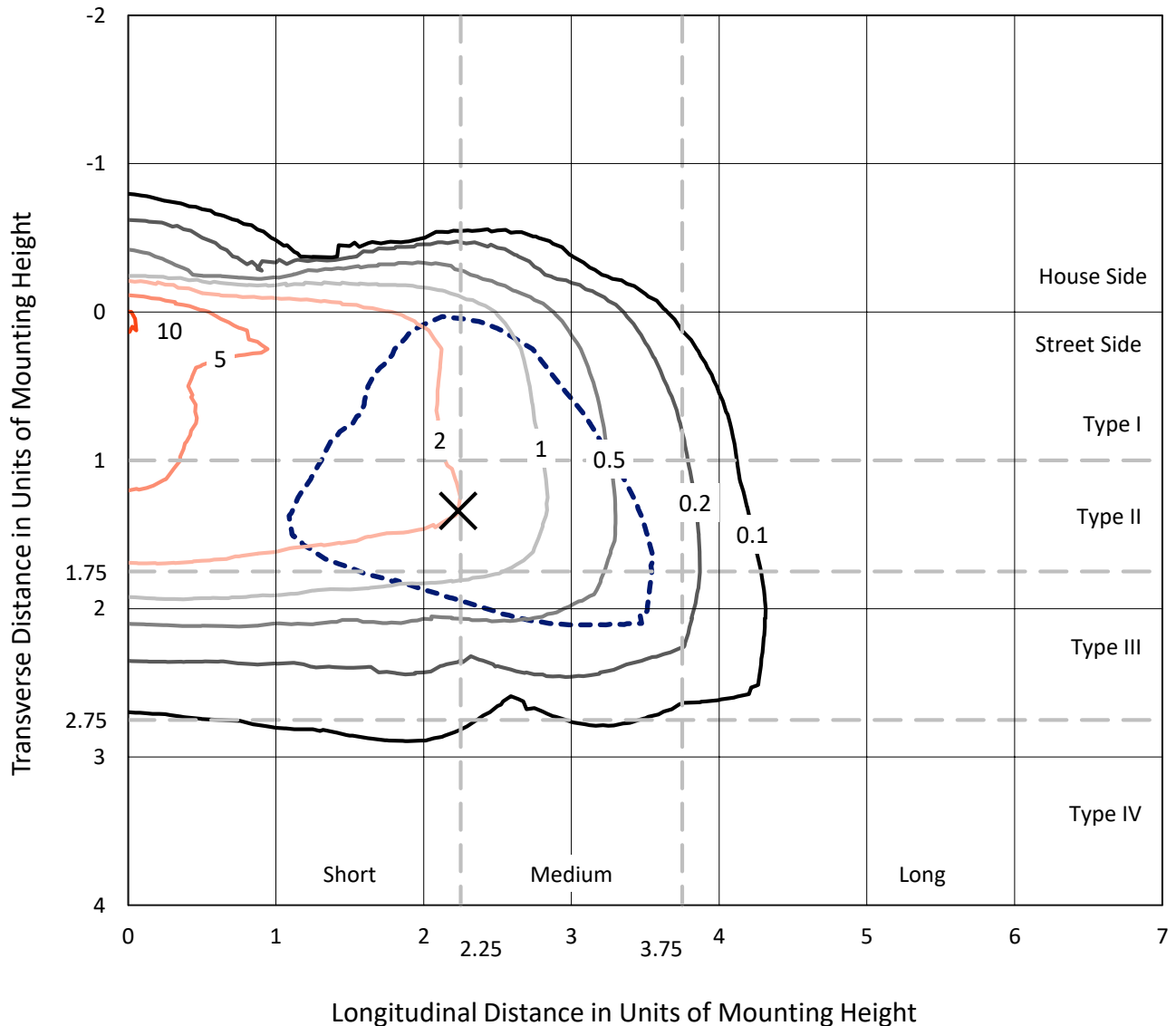


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

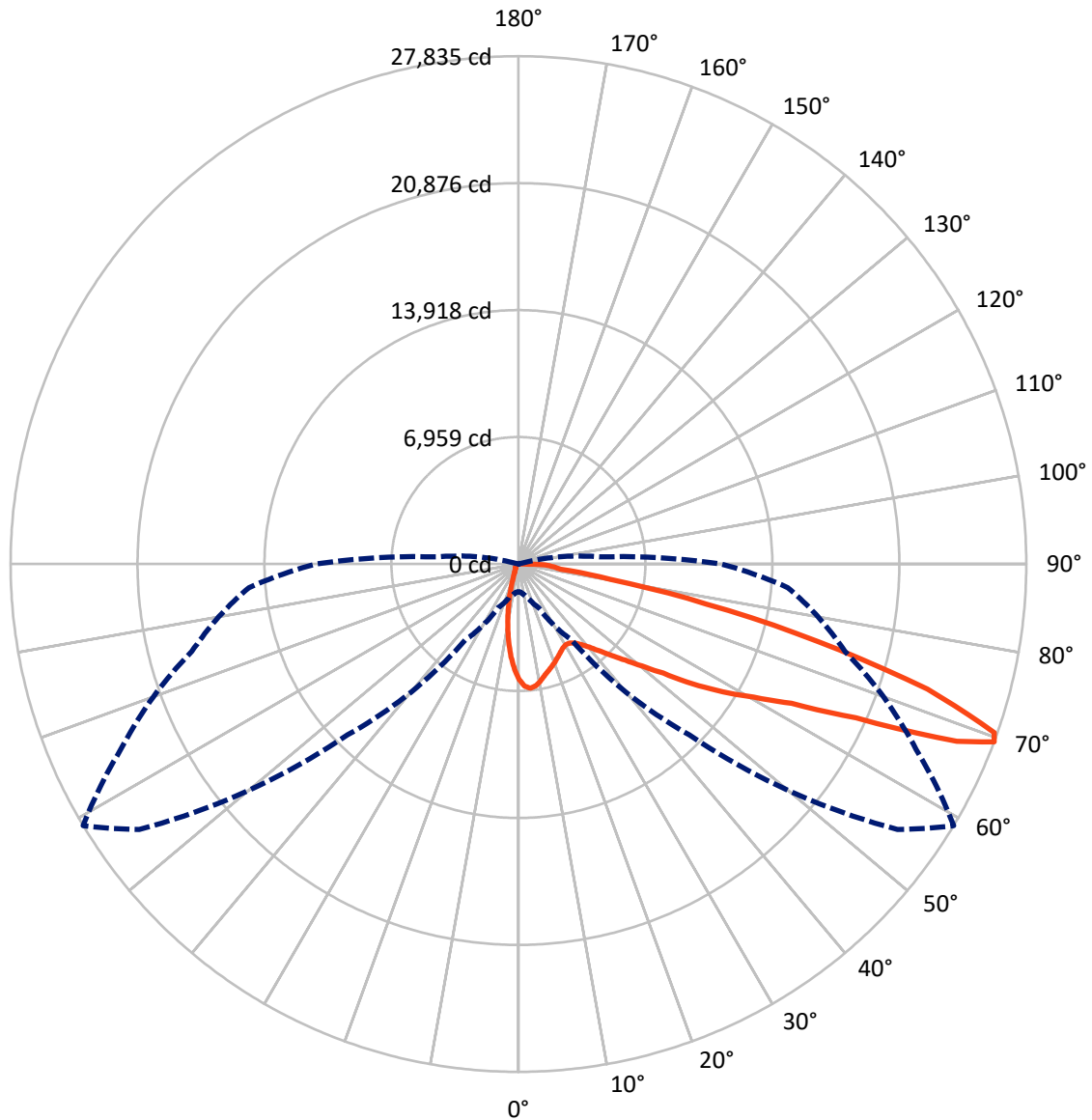


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - Non-Cutoff

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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	1986.1	0.0	1986.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	22401.8	0.0	22401.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	24387.9	0.0	24387.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.3	2.1
10°-20°	1064.7	4.4
20°-30°	1432.6	5.9
30°-40°	2080.1	8.5
40°-50°	3463.5	14.2
50°-60°	5403.0	22.2
60°-70°	6685.8	27.4
70°-80°	3388.3	13.9
80°-90°	354.5	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°	24387.9	100.0
0°-180°	24387.9	100.0



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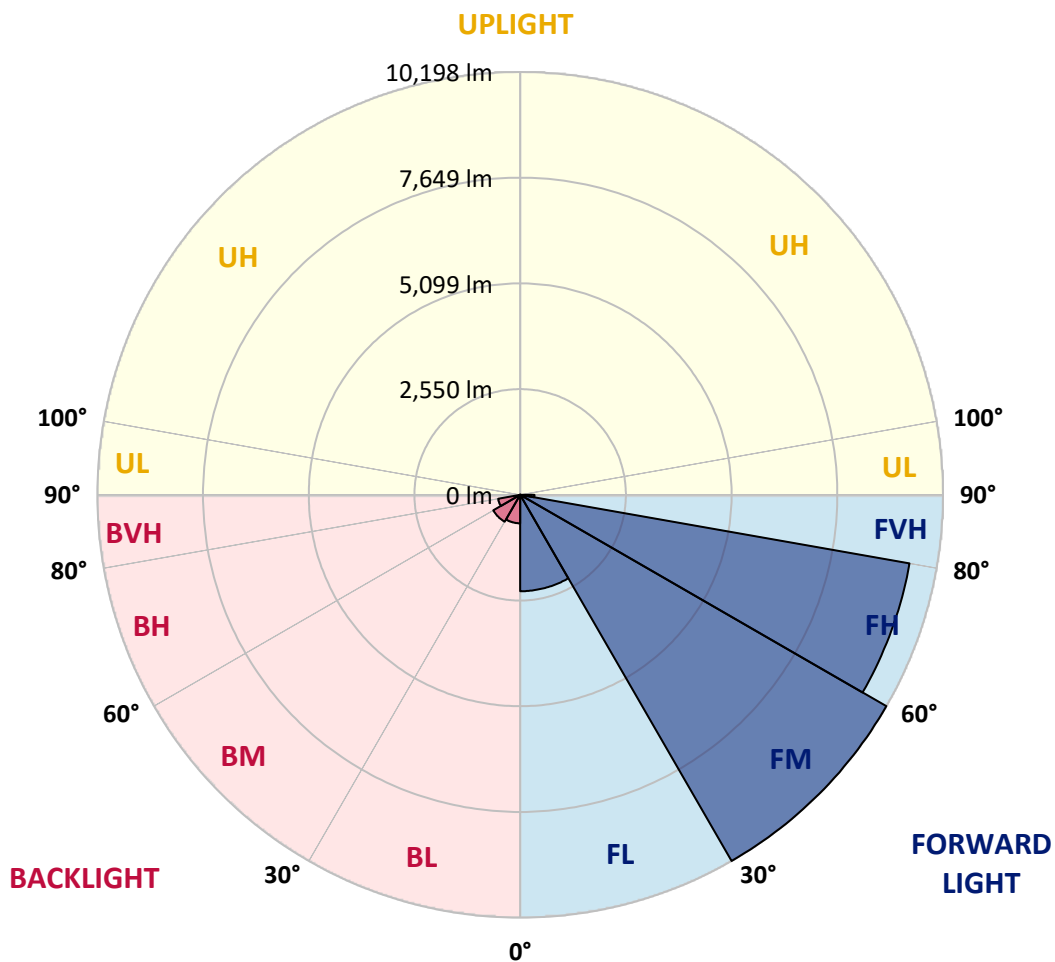
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2325.1	9.5			
FM	(30°-60°)	10198.3	41.8			
FH	(60°-80°)	9534.8	39.1			G4/12000
FVH	(80°-90°)	343.6	1.4			G3/500
BL	(0°-30°)	687.4	2.8	B2/1000		
BM	(30°-60°)	748.3	3.1	B1/1000		
BH	(60°-80°)	539.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7
2.5°	6957.3	6954.8	6924.3	6910.5	6885.5	6833.3	6751.9	6709.3	6640.4	6520.1	6359.0
5°	6893.8	6927.2	6944.8	6946.4	6964.4	6944.8	6871.7	6836.2	6741.0	6547.7	6258.3
7.5°	6463.8	6475.9	6527.2	6571.1	6656.7	6738.1	6764.4	6748.9	6692.6	6485.9	6100.9
10°	6003.2	6015.3	6076.3	6133.9	6250.0	6375.2	6507.6	6535.6	6559.0	6397.4	5949.4
12.5°	5605.7	5618.3	5680.5	5756.1	5891.3	6045.8	6251.2	6296.8	6400.3	6313.5	5827.9
15°	5263.8	5269.2	5330.2	5423.7	5585.3	5783.6	6017.0	6090.1	6248.7	6254.2	5721.8
17.5°	4972.8	4986.5	5024.1	5113.5	5290.1	5535.6	5807.4	5912.2	6098.0	6204.5	5618.3
20°	4794.9	4808.7	4807.4	4857.1	5015.8	5277.6	5597.8	5723.1	5949.4	6153.5	5526.0
22.5°	4760.7	4760.7	4724.8	4717.7	4811.6	5030.8	5379.9	5532.7	5815.3	6131.4	5461.3
25°	4883.4	4877.6	4788.2	4715.2	4719.3	4850.0	5168.6	5350.6	5702.6	6146.4	5426.6
27.5°	5142.7	5135.6	5022.5	4883.4	4771.5	4770.3	5008.7	5204.5	5612.8	6218.3	5440.4
30°	5500.9	5498.4	5375.7	5200.3	4997.8	4811.6	4953.6	5131.4	5554.8	6347.7	5472.1
32.5°	5892.6	5888.4	5796.1	5611.6	5354.8	4997.8	5011.6	5160.7	5571.5	6520.1	5549.4
35°	6308.0	6300.9	6260.8	6099.7	5817.0	5341.0	5202.0	5317.6	5676.3	6778.2	5700.9
37.5°	6757.3	6764.4	6793.2	6638.7	6342.3	5822.4	5520.6	5599.1	5887.2	7128.5	5947.7
40°	7420.7	7419.5	7429.1	7226.2	6941.0	6411.2	5965.7	5990.7	6240.4	7593.2	6323.1
42.5°	8624.5	8540.6	8285.4	7871.7	7584.8	7084.2	6527.2	6500.9	6672.1	8168.1	6848.3
45°	10242.4	10062.9	9401.1	8608.2	8241.2	7842.9	7217.8	7133.9	7242.9	8859.1	7496.7
47.5°	11633.6	11447.4	10511.3	9374.8	8937.6	8562.7	8027.4	7875.8	7911.8	9632.8	8318.4
50°	12106.7	12015.6	11198.1	10042.4	9611.9	9468.7	8966.8	8781.9	8730.9	10527.6	9271.2
52.5°	11942.6	11935.9	11391.0	10475.4	10229.9	10406.5	10148.5	9934.7	9747.2	11471.2	10240.7
55°	11679.1	11713.8	11469.5	10854.5	10846.1	11262.8	11764.7	11586.8	11043.6	12495.8	11076.6
57.5°	10952.6	11100.0	11425.7	11571.8	11910.8	12337.1	13110.8	13215.6	12573.0	13280.3	11770.1
60°	8886.7	9210.7	10275.4	11674.9	13283.3	14345.0	14735.4	14824.8	13827.7	13932.5	12706.7
62.5°	6308.0	6638.7	7989.0	10356.8	13303.7	16983.0	17155.4	16803.9	15209.7	14899.5	14321.7
65°	3348.2	3603.7	4706.8	7475.9	11534.7	17595.5	21387.9	20339.9	17647.7	16800.9	16408.0
67.5°	1712.7	1789.9	2228.8	3658.8	7929.7	15628.9	25181.6	25919.4	21849.7	18687.8	16307.4
69°	1515.6	1561.1	1852.2	2645.0	5077.6	13237.8	25366.5	27835.0	24049.7	18530.3	14819.4
70°	1467.2	1507.3	1772.0	2394.1	3969.0	11101.3	24658.8	27666.7	24612.1	17932.0	13707.9
72.5°	1245.5	1279.7	1577.8	2115.6	3225.8	5510.5	20030.9	23444.2	22085.6	14937.9	9922.2
75°	833.0	946.1	1514.4	1983.3	3000.8	3130.6	13206.0	16941.6	15737.9	10075.4	5168.6
77.5°	200.0	215.0	427.5	1577.8	2744.4	2755.3	6791.9	10531.7	8590.2	3591.2	1221.7
80°	107.7	103.5	119.8	313.1	2555.3	2585.8	3057.6	5112.2	3067.2	595.8	402.5
82.5°	76.0	71.8	77.2	131.1	804.2	2355.3	2212.1	2313.9	1271.4	228.8	180.8
85°	27.6	26.3	42.6	118.6	252.2	1354.0	2272.6	1908.5	1030.0	104.8	132.4
87.5°	9.6	8.4	16.7	64.7	77.2	576.6	1402.5	1442.6	405.4	63.5	62.2
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°	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7	6347.7
2.5°	6291.3	6205.7	6048.7	5887.2	5738.1	5559.0	5469.2	5381.1	5344.0	5330.2	5265.5
5°	6109.3	5964.4	5630.8	5295.5	4986.5	4658.4	4442.1	4268.4	4166.1	4116.4	4037.9
7.5°	5876.3	5639.1	5132.7	4615.8	4134.4	3660.1	3308.5	3037.9	2851.7	2762.4	2681.0
10°	5650.0	5334.3	4614.5	3909.7	3255.9	2627.1	2141.5	1789.9	1565.3	1461.8	1395.8
12.5°	5447.5	5037.9	4113.9	3221.7	2400.8	1664.7	1170.8	891.0	751.6	703.1	679.7
15°	5266.7	4764.8	3640.9	2567.8	1625.9	951.5	640.1	544.9	522.7	522.7	519.8
17.5°	5095.5	4497.2	3184.1	1954.0	1020.4	582.0	486.8	474.3	474.3	479.7	479.7
20°	4931.4	4242.1	2742.7	1402.5	642.6	461.8	440.1	437.2	440.1	446.8	446.8
22.5°	4790.7	4010.4	2330.6	962.4	477.2	416.3	405.4	401.2	402.5	406.7	409.6
25°	4685.9	3814.5	1941.9	652.2	410.8	379.1	367.0	359.9	354.5	354.5	357.0
27.5°	4620.0	3649.2	1565.3	474.3	369.5	344.9	325.3	314.4	301.9	295.2	297.7
30°	4571.5	3491.8	1212.1	387.5	331.1	306.0	281.4	263.5	245.5	237.2	240.1
32.5°	4553.6	3364.9	906.0	342.0	296.4	268.9	238.4	215.0	195.8	188.7	190.4
35°	4602.0	3264.2	663.5	309.0	268.9	234.2	200.0	173.7	158.7	154.5	155.7
37.5°	4728.9	3210.4	496.4	281.4	244.3	205.4	167.0	142.0	132.4	132.4	133.6
40°	4968.6	3209.1	398.7	262.2	222.1	177.9	137.8	119.8	114.4	117.3	118.6
42.5°	5318.9	3282.2	347.4	244.3	202.9	151.6	114.4	101.9	100.6	103.5	104.8
45°	5797.4	3415.8	319.8	228.8	182.0	126.9	96.4	88.1	88.1	92.3	93.9
47.5°	6383.6	3611.6	296.4	213.8	161.2	106.1	82.7	77.2	78.5	82.7	83.9
50°	7089.6	3858.8	273.1	197.1	146.1	88.1	71.8	67.6	68.9	74.3	76.0
52.5°	7893.8	4191.2	253.9	182.0	126.9	73.1	60.5	58.0	60.5	66.4	67.6
55°	8583.1	4488.9	230.5	169.5	101.9	60.5	49.7	49.7	52.6	59.3	60.5
57.5°	9246.6	4800.3	209.6	146.1	80.2	48.4	41.3	42.6	46.8	53.9	55.1
60°	10220.3	5328.5	185.0	122.8	60.5	38.4	34.7	35.9	41.3	48.4	49.7
62.5°	11873.7	6132.7	159.9	101.9	46.8	30.5	27.6	30.5	37.2	45.5	46.8
65°	13365.9	6459.6	131.1	85.6	35.9	23.4	23.4	27.6	35.9	44.3	45.5
67.5°	12534.2	5437.5	101.9	67.6	27.6	18.0	19.2	26.3	34.7	44.3	45.5
69°	11085.0	4446.3	86.8	53.9	23.4	16.7	18.0	26.3	34.7	42.6	44.3
70°	9955.6	3754.0	77.2	45.5	20.9	16.7	18.0	24.6	34.7	42.6	44.3
72.5°	6667.9	2027.1	62.2	33.0	19.2	15.0	15.0	24.6	33.0	41.3	42.6
75°	2865.5	559.9	49.7	23.4	16.7	13.8	13.8	23.4	31.7	40.1	42.6
77.5°	524.0	142.0	40.1	20.9	16.7	13.8	12.5	22.1	30.5	38.4	40.1
80°	208.3	70.1	31.7	18.0	15.0	12.5	10.9	20.9	28.8	37.2	38.4
82.5°	125.7	40.1	26.3	16.7	15.0	10.9	9.6	18.0	27.6	35.9	37.2
85°	101.9	27.6	20.9	16.7	13.8	10.9	8.4	16.7	24.6	34.7	35.9
87.5°	49.7	19.2	19.2	15.0	13.8	10.9	8.4	15.0	23.4	33.0	34.7
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)