

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-07-LED-E1-SL3-7030-600-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-07-LED-E1-SL3-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K 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: 20819.9 lumens
Efficiency: N/A
Efficacy: 92.1 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): 226
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

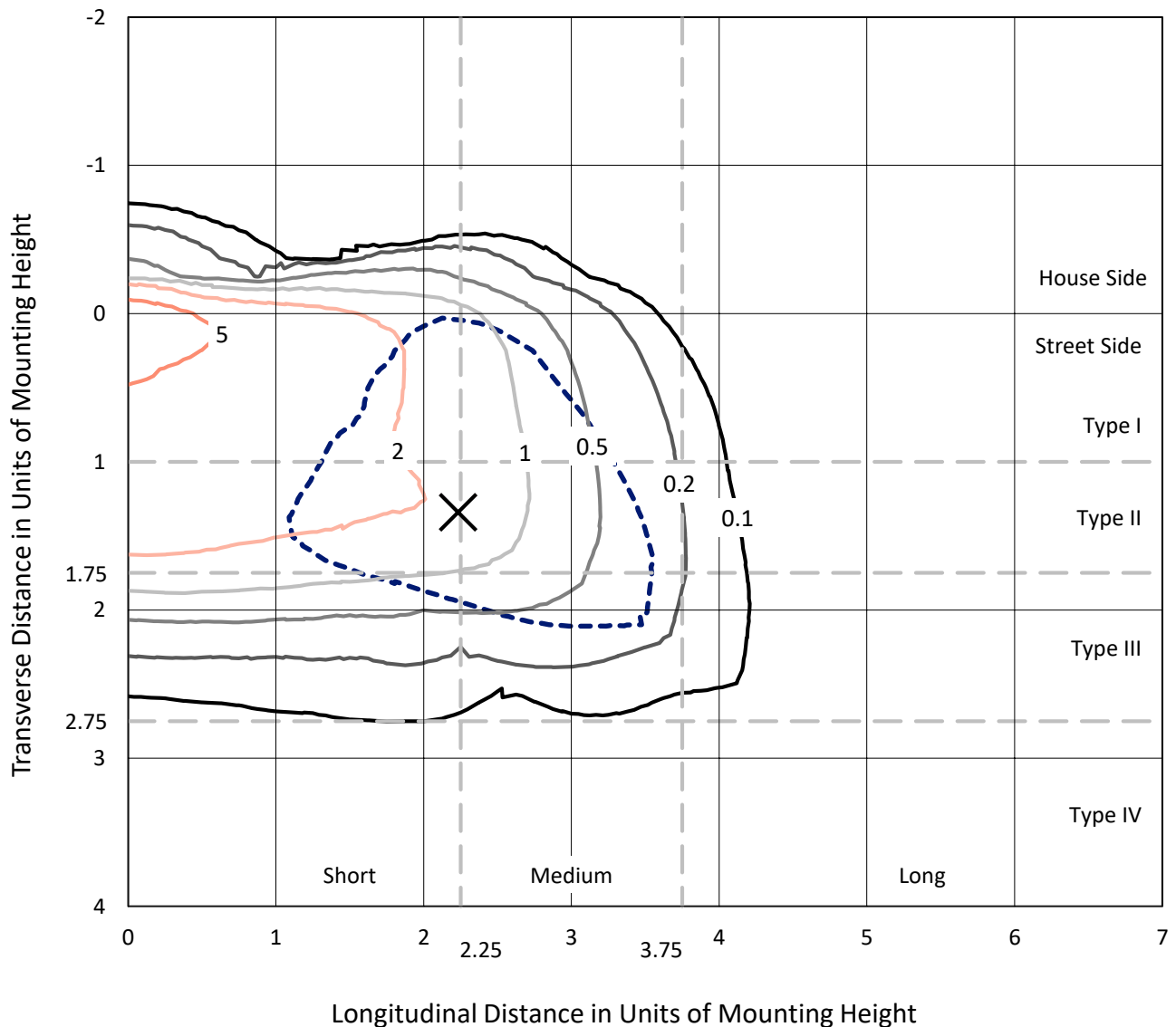


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

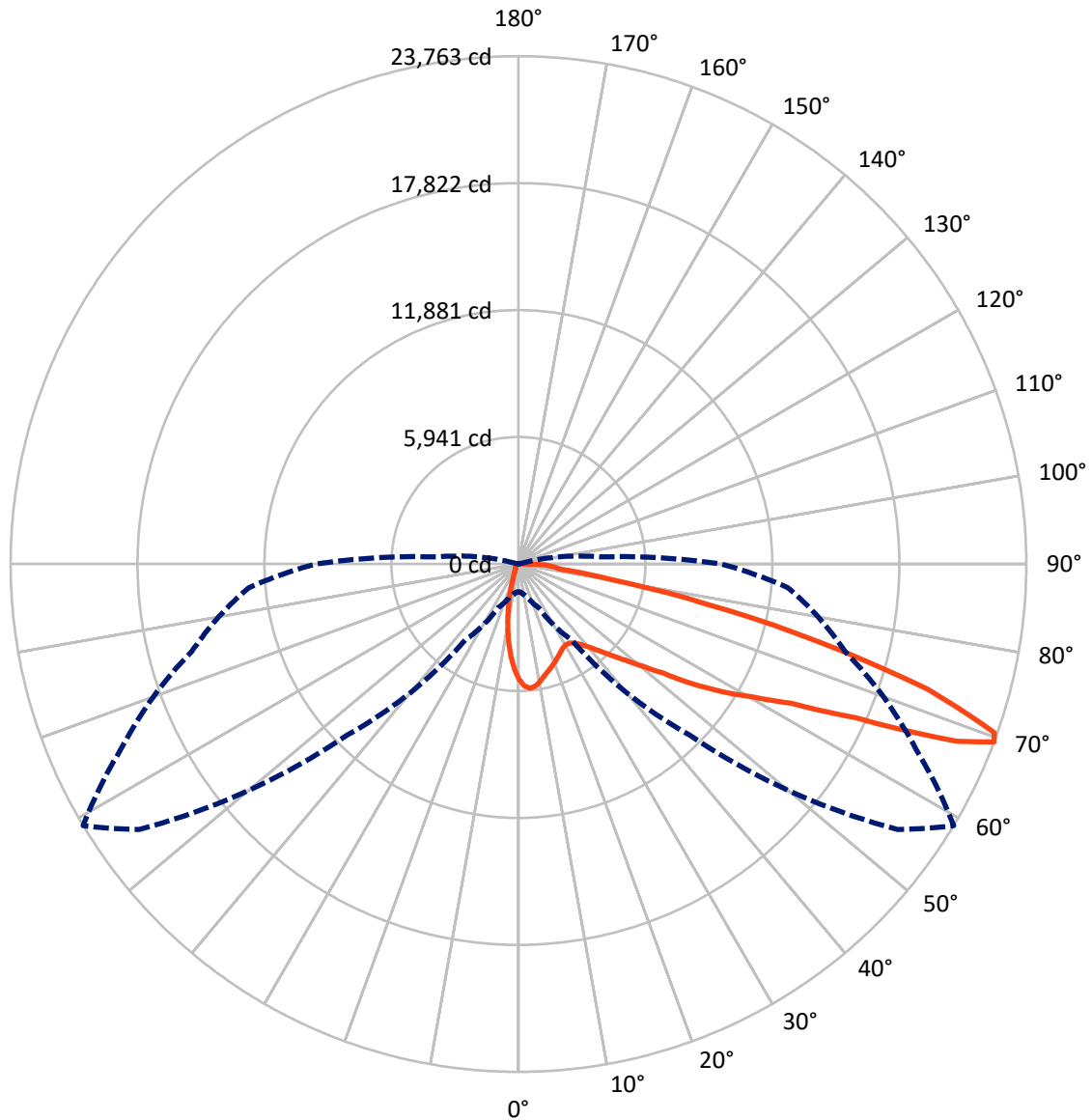


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Non-Cutoff

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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	1695.5	0.0	1695.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	19124.4	0.0	19124.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	20819.9	0.0	20819.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.9	2.1
10°-20°	908.9	4.4
20°-30°	1223.0	5.9
30°-40°	1775.8	8.5
40°-50°	2956.8	14.2
50°-60°	4612.6	22.2
60°-70°	5707.7	27.4
70°-80°	2892.6	13.9
80°-90°	302.7	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°	20819.9	100.0
0°-180°	20819.9	100.0



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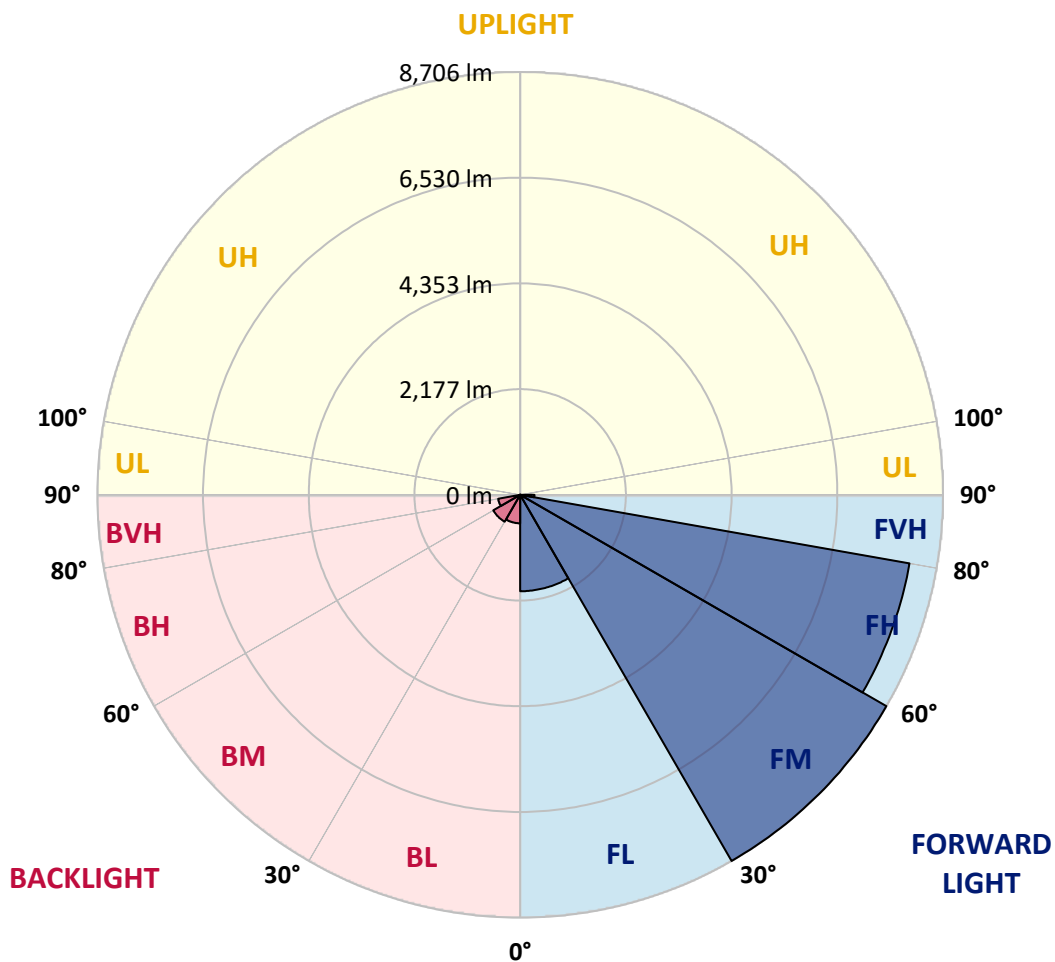
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1985.0	9.5			
FM	(30°-60°)	8706.3	41.8			
FH	(60°-80°)	8139.8	39.1			G4/12000
FVH	(80°-90°)	293.3	1.4			G3/500
BL	(0°-30°)	586.9	2.8	B2/1000		
BM	(30°-60°)	638.8	3.1	B1/1000		
BH	(60°-80°)	460.5	2.2	B1/500		G1/500
BVH	(80°-90°)	9.3	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°	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0
2.5°	5939.4	5937.3	5911.3	5899.5	5878.1	5833.6	5764.1	5727.7	5668.9	5566.2	5428.6
5°	5885.2	5913.8	5928.7	5930.2	5945.5	5928.7	5866.4	5836.1	5754.8	5589.8	5342.7
7.5°	5518.1	5528.4	5572.3	5609.7	5682.8	5752.3	5774.8	5761.6	5713.4	5537.0	5208.4
10°	5125.0	5135.3	5187.3	5236.5	5335.6	5442.5	5555.5	5579.4	5599.4	5461.4	5079.0
12.5°	4785.6	4796.3	4849.4	4913.9	5029.4	5161.3	5336.7	5375.5	5463.9	5389.8	4975.2
15°	4493.7	4498.3	4550.4	4630.2	4768.2	4937.5	5136.7	5199.1	5334.5	5339.2	4884.7
17.5°	4245.2	4257.0	4289.1	4365.4	4516.1	4725.7	4957.8	5047.2	5205.9	5296.8	4796.3
20°	4093.4	4105.2	4104.1	4146.5	4282.0	4505.5	4778.8	4885.8	5079.0	5253.3	4717.5
22.5°	4064.2	4064.2	4033.5	4027.5	4107.7	4294.8	4592.8	4723.2	4964.6	5234.4	4662.3
25°	4169.0	4164.0	4087.7	4025.3	4028.9	4140.5	4412.4	4567.8	4868.3	5247.2	4632.7
27.5°	4390.3	4384.3	4287.7	4169.0	4073.4	4072.4	4275.9	4443.1	4791.7	5308.5	4644.5
30°	4696.2	4694.0	4589.2	4439.5	4266.6	4107.7	4228.9	4380.7	4742.1	5419.0	4671.6
32.5°	5030.5	5026.9	4948.2	4790.6	4571.4	4266.6	4278.4	4405.6	4756.4	5566.2	4737.5
35°	5385.2	5379.1	5344.9	5207.3	4966.0	4559.6	4440.9	4539.7	4845.9	5786.5	4866.9
37.5°	5768.7	5774.8	5799.3	5667.5	5414.4	4970.6	4712.9	4779.9	5025.9	6085.6	5077.5
40°	6335.1	6334.0	6342.2	6169.0	5925.5	5473.2	5092.9	5114.3	5327.4	6482.3	5398.0
42.5°	7362.7	7291.1	7073.3	6720.0	6475.2	6047.8	5572.3	5549.8	5696.0	6973.1	5846.4
45°	8743.9	8590.7	8025.7	7348.8	7035.5	6695.4	6161.8	6090.2	6183.2	7563.0	6400.0
47.5°	9931.6	9772.6	8973.5	8003.2	7630.0	7310.0	6853.0	6723.6	6754.3	8223.5	7101.4
50°	10335.5	10257.7	9559.8	8573.2	8205.7	8083.4	7655.0	7497.1	7453.6	8987.4	7914.8
52.5°	10195.4	10189.7	9724.5	8942.8	8733.2	8884.0	8663.7	8481.2	8321.2	9792.9	8742.5
55°	9970.5	10000.0	9791.5	9266.5	9259.3	9615.1	10043.5	9891.7	9427.9	10667.7	9456.1
57.5°	9350.2	9476.1	9754.1	9878.8	10168.3	10532.2	11192.7	11282.2	10733.6	11337.4	10048.2
60°	7586.6	7863.2	8772.1	9966.9	11339.9	12246.3	12579.6	12655.9	11804.7	11894.2	10847.7
62.5°	5385.2	5667.5	6820.2	8841.6	11357.4	14498.4	14645.6	14345.4	12984.5	12719.7	12226.4
65°	2858.3	3076.5	4018.2	6382.1	9847.1	15021.3	18258.8	17364.2	15065.8	14343.0	14007.5
67.5°	1462.1	1528.1	1902.7	3123.5	6769.6	13342.4	21497.5	22127.3	18653.1	15953.7	13921.6
69°	1293.9	1332.7	1581.2	2258.1	4334.7	11301.1	21655.4	23762.7	20531.2	15819.3	12651.3
70°	1252.5	1286.8	1512.7	2043.9	3388.4	9477.1	21051.2	23619.1	21011.3	15308.6	11702.4
72.5°	1063.3	1092.5	1347.0	1806.1	2753.9	4704.3	17100.4	20014.3	18854.5	12752.5	8470.5
75°	711.1	807.7	1292.8	1693.1	2561.8	2672.6	11274.0	14463.1	13435.4	8601.4	4412.4
77.5°	170.7	183.6	365.0	1347.0	2342.9	2352.2	5798.3	8990.9	7333.5	3065.8	1043.0
80°	92.0	88.4	102.3	267.3	2181.4	2207.5	2610.2	4364.3	2618.4	508.6	343.6
82.5°	64.9	61.3	65.9	111.9	686.5	2010.7	1888.4	1975.4	1085.4	195.3	154.3
85°	23.5	22.5	36.4	101.2	215.3	1155.9	1940.1	1629.3	879.3	89.5	113.0
87.5°	8.2	7.1	14.3	55.2	65.9	492.2	1197.3	1231.5	346.1	54.2	53.1
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°	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0
2.5°	5370.9	5297.8	5163.8	5025.9	4898.6	4745.7	4669.1	4593.9	4562.1	4550.4	4495.1
5°	5215.5	5091.8	4807.0	4520.8	4257.0	3976.8	3792.2	3643.9	3556.6	3514.2	3447.2
7.5°	5016.6	4814.1	4381.8	3940.5	3529.5	3124.6	2824.5	2593.5	2434.5	2358.2	2288.7
10°	4823.4	4553.9	3939.4	3337.7	2779.6	2242.7	1828.2	1528.1	1336.3	1247.9	1191.6
12.5°	4650.5	4300.9	3512.0	2750.3	2049.6	1421.1	999.5	760.7	641.6	600.3	580.3
15°	4496.2	4067.7	3108.2	2192.1	1388.0	812.3	546.4	465.2	446.3	446.3	443.8
17.5°	4350.0	3839.3	2718.2	1668.2	871.1	496.9	415.6	404.9	404.9	409.6	409.6
20°	4210.0	3621.5	2341.5	1197.3	548.6	394.2	375.7	373.2	375.7	381.4	381.4
22.5°	4089.8	3423.6	1989.7	821.6	407.4	355.4	346.1	342.5	343.6	347.2	349.7
25°	4000.4	3256.5	1657.8	556.8	350.7	323.7	313.3	307.3	302.6	302.6	304.8
27.5°	3944.1	3115.3	1336.3	404.9	315.5	294.4	277.7	268.4	257.7	252.0	254.1
30°	3902.7	2980.9	1034.8	330.8	282.7	261.3	240.2	224.9	209.6	202.5	205.0
32.5°	3887.4	2872.6	773.5	291.9	253.1	229.5	203.5	183.6	167.2	161.1	162.5
35°	3928.7	2786.7	566.4	263.8	229.5	200.0	170.7	148.3	135.4	131.9	133.0
37.5°	4037.1	2740.7	423.8	240.2	208.5	175.4	142.6	121.2	113.0	113.0	114.1
40°	4241.7	2739.6	340.4	223.8	189.6	151.8	117.6	102.3	97.7	100.2	101.2
42.5°	4540.7	2802.0	296.6	208.5	173.2	129.4	97.7	87.0	85.9	88.4	89.5
45°	4949.2	2916.1	273.0	195.3	155.4	108.4	82.3	75.2	75.2	78.8	80.2
47.5°	5449.7	3083.2	253.1	182.5	137.6	90.5	70.6	65.9	67.0	70.6	71.6
50°	6052.4	3294.3	233.1	168.2	124.8	75.2	61.3	57.7	58.8	63.4	64.9
52.5°	6738.9	3578.0	216.7	155.4	108.4	62.4	51.7	49.5	51.7	56.7	57.7
55°	7327.4	3832.1	196.8	144.7	87.0	51.7	42.4	42.4	44.9	50.6	51.7
57.5°	7893.8	4098.0	178.9	124.8	68.4	41.3	35.3	36.4	39.9	46.0	47.1
60°	8725.0	4548.9	157.9	104.8	51.7	32.8	29.6	30.7	35.3	41.3	42.4
62.5°	10136.6	5235.5	136.5	87.0	39.9	26.0	23.5	26.0	31.7	38.9	39.9
65°	11410.5	5514.5	111.9	73.1	30.7	20.0	20.0	23.5	30.7	37.8	38.9
67.5°	10700.5	4642.0	87.0	57.7	23.5	15.3	16.4	22.5	29.6	37.8	38.9
69°	9463.2	3795.8	74.1	46.0	20.0	14.3	15.3	22.5	29.6	36.4	37.8
70°	8499.1	3204.8	65.9	38.9	17.8	14.3	15.3	21.0	29.6	36.4	37.8
72.5°	5692.4	1730.5	53.1	28.2	16.4	12.8	12.8	21.0	28.2	35.3	36.4
75°	2446.3	478.0	42.4	20.0	14.3	11.8	11.8	20.0	27.1	34.2	36.4
77.5°	447.3	121.2	34.2	17.8	14.3	11.8	10.7	18.9	26.0	32.8	34.2
80°	177.9	59.9	27.1	15.3	12.8	10.7	9.3	17.8	24.6	31.7	32.8
82.5°	107.3	34.2	22.5	14.3	12.8	9.3	8.2	15.3	23.5	30.7	31.7
85°	87.0	23.5	17.8	14.3	11.8	9.3	7.1	14.3	21.0	29.6	30.7
87.5°	42.4	16.4	16.4	12.8	11.8	9.3	7.1	12.8	20.0	28.2	29.6
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)