

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: P299677

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299677
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-SL2-7027-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K CCT 800mA 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: 25193.4 lumens
Efficiency: N/A
Efficacy: 75.4 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): 334
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

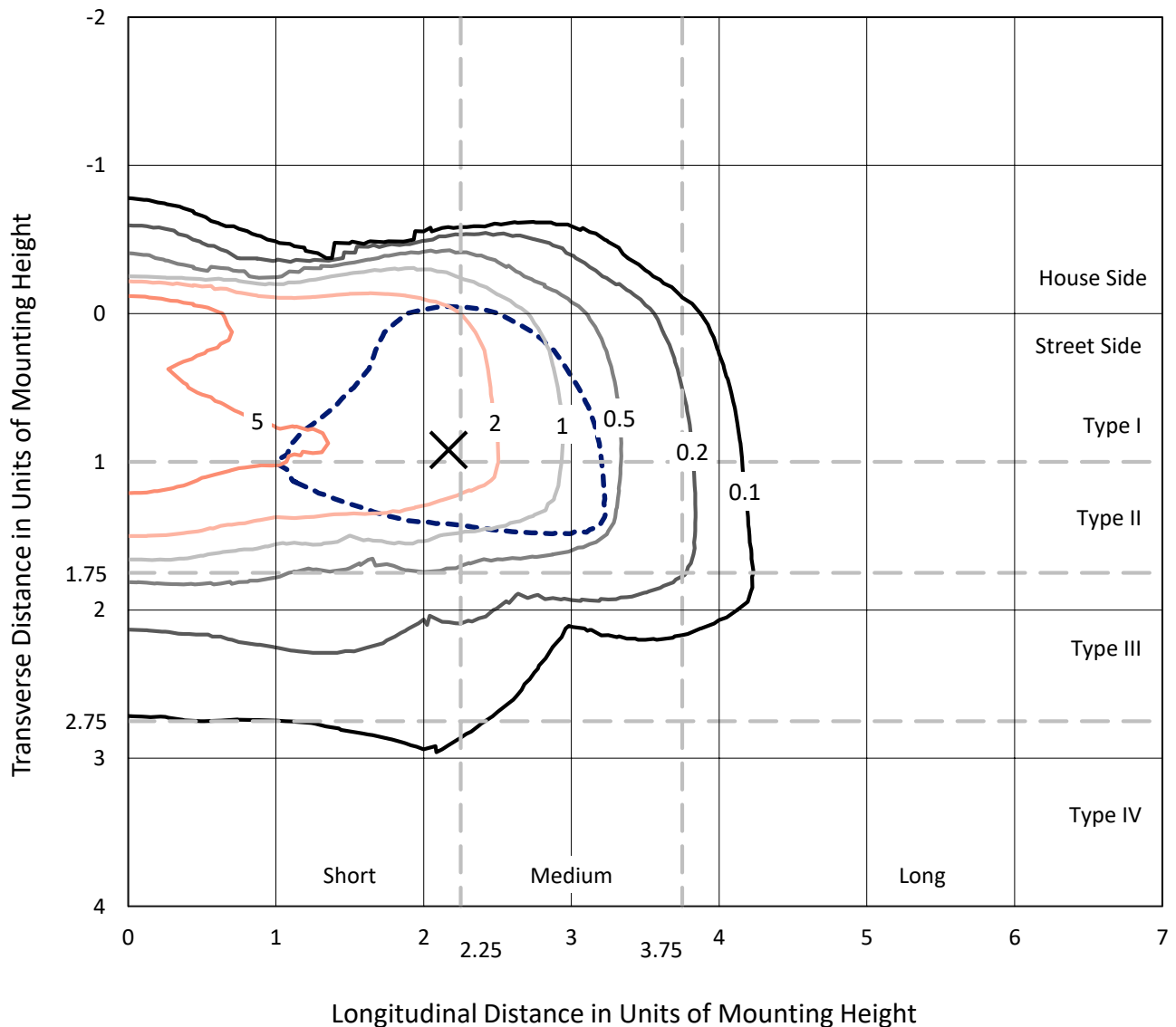


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

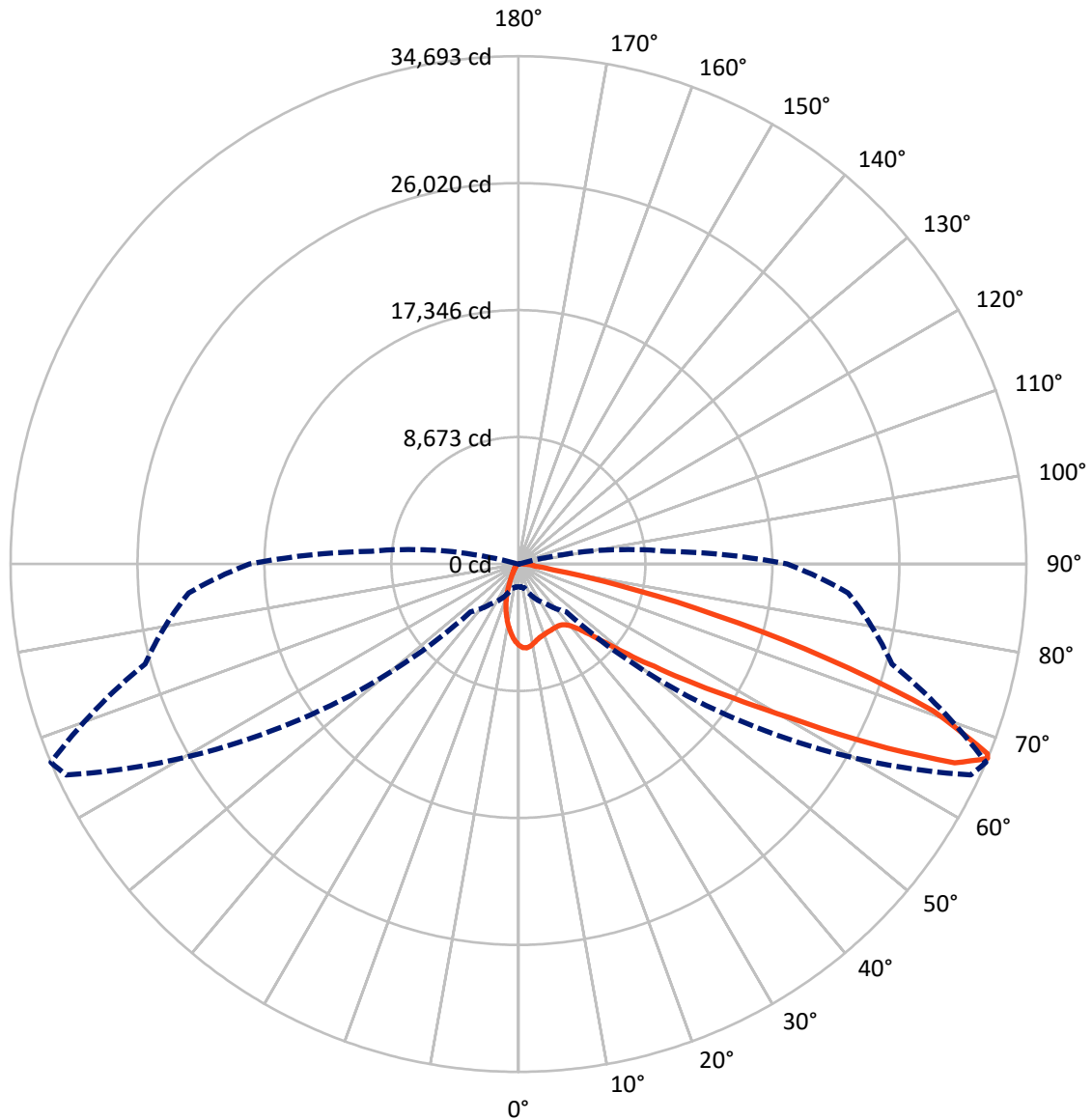


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Semi-Cutoff

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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	2615.8	0.0	2615.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22577.6	0.0	22577.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	25193.4	0.0	25193.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.1	1.8
10°-20°	962.2	3.8
20°-30°	1399.0	5.6
30°-40°	2182.5	8.7
40°-50°	3866.1	15.3
50°-60°	6117.8	24.3
60°-70°	7007.0	27.8
70°-80°	2906.5	11.5
80°-90°	300.2	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°	25193.4	100.0
0°-180°	25193.4	100.0



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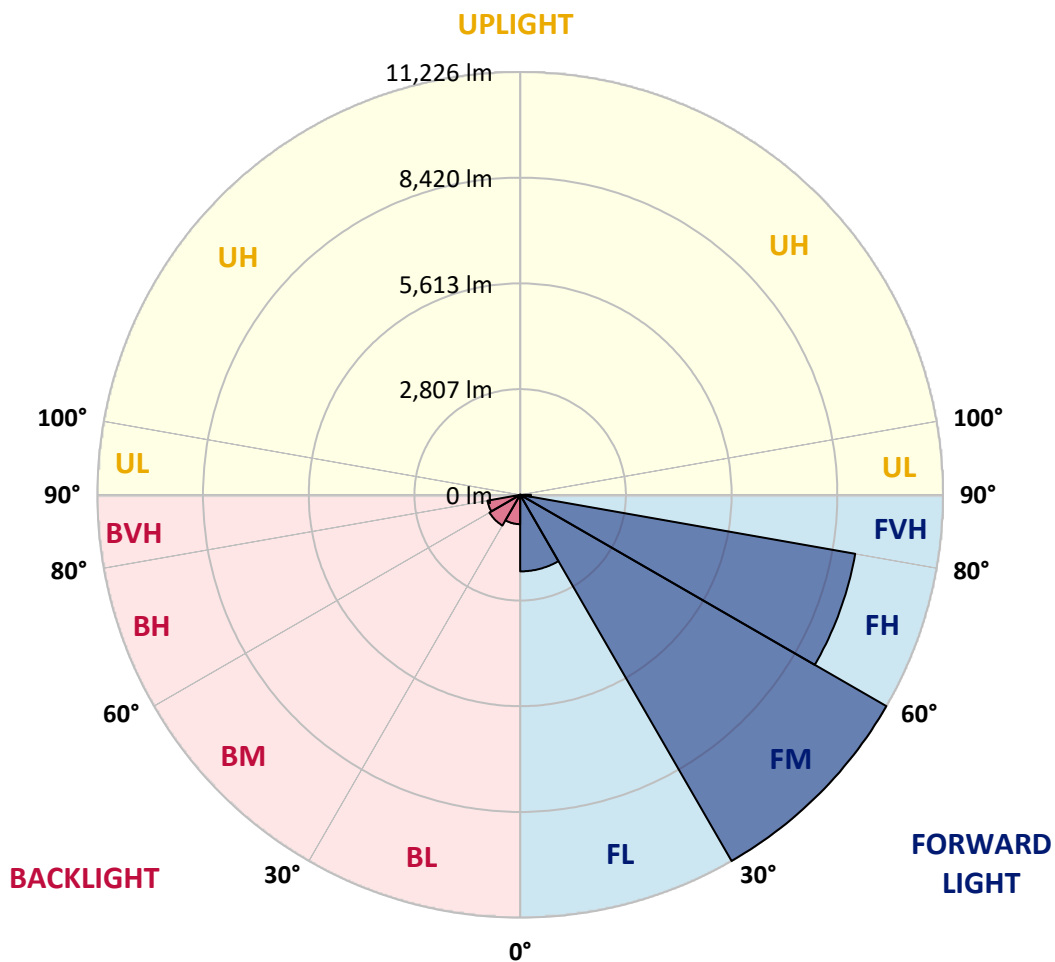
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.7	8.1			
FM (30°-60°)	11226.2	44.6			
FH (60°-80°)	9031.9	35.9			G4/12000
FVH (80°-90°)	286.7	1.1			G3/500
BL (0°-30°)	780.6	3.1	B2/1000		
BM (30°-60°)	940.1	3.7	B1/1000		
BH (60°-80°)	881.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	13.5	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°	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1
2.5°	5744.2	5755.9	5754.5	5763.3	5783.8	5785.3	5764.7	5725.1	5716.2	5664.8	5575.2
5°	5297.4	5331.2	5351.8	5435.6	5529.6	5642.8	5728.0	5758.9	5754.5	5717.7	5582.5
7.5°	4787.5	4821.3	4844.8	4943.3	5068.2	5262.2	5484.1	5666.3	5682.4	5722.1	5576.6
10°	4448.1	4454.0	4486.3	4580.3	4711.1	4909.5	5174.0	5492.9	5541.4	5686.9	5562.0
12.5°	4168.9	4173.3	4215.9	4317.3	4456.9	4656.8	4934.5	5303.3	5378.3	5642.8	5559.0
15°	3970.5	3986.7	4024.9	4130.7	4279.1	4477.5	4762.6	5163.7	5253.4	5626.6	5585.5
17.5°	3904.4	3922.0	3933.8	4010.2	4145.4	4339.3	4631.8	5072.6	5174.0	5635.4	5636.9
20°	3973.5	3986.7	3960.2	3979.3	4063.1	4236.5	4521.6	4994.7	5115.2	5645.7	5703.0
22.5°	4230.6	4236.5	4164.5	4080.7	4066.0	4161.5	4434.9	4933.0	5062.3	5673.6	5780.9
25°	4671.5	4661.2	4543.6	4362.9	4192.4	4148.3	4383.4	4894.8	5035.9	5703.0	5861.7
27.5°	5203.4	5218.1	5056.5	4793.4	4468.7	4236.5	4376.1	4878.6	5024.1	5723.6	5932.3
30°	5850.0	5870.5	5685.4	5354.8	4888.9	4454.0	4443.7	4875.7	5016.8	5710.4	5938.1
32.5°	6509.8	6534.7	6389.3	6048.3	5450.3	4818.4	4596.5	4908.0	5031.5	5664.8	5904.3
35°	7200.4	7235.7	7138.7	6846.3	6211.5	5344.5	4865.4	5006.5	5100.5	5660.4	5870.5
37.5°	8154.1	8186.4	8004.2	7694.2	7132.8	6049.8	5297.4	5191.6	5263.6	5730.9	5879.4
40°	9578.0	9573.6	9103.4	8628.7	8145.3	6946.2	5904.3	5526.7	5563.4	5944.0	5988.1
42.5°	11129.8	11122.4	10427.4	9705.9	9269.4	8049.8	6702.3	6105.7	6080.7	6336.4	6270.2
45°	12325.9	12324.5	11757.2	10944.6	10622.8	9316.5	7733.8	6910.9	6872.7	6974.1	6790.4
47.5°	12835.8	12844.7	12559.6	11987.9	12123.1	11029.9	9034.3	8077.7	8020.4	7979.2	7700.0
50°	12439.1	12456.7	12480.2	12368.5	13223.8	13332.5	10778.6	9722.0	9694.1	9510.4	9074.0
52.5°	11143.0	11232.6	11508.9	11863.0	13605.8	15542.6	13513.3	11764.6	11614.7	11419.3	10938.7
55°	8959.4	9057.8	9582.4	10442.1	13037.2	16994.4	17345.6	14397.9	14148.1	13564.7	12871.1
57.5°	5929.3	6082.1	6843.3	7936.6	11385.5	17228.1	21169.2	18052.5	17182.5	15585.2	14803.5
60°	3266.6	3413.6	4239.4	5229.8	8223.2	16073.1	23740.8	22810.6	21273.5	17843.8	17150.2
62.5°	2011.7	2091.1	2700.9	3622.2	4931.5	12685.9	24272.7	28789.9	27010.4	20751.9	19984.8
65°	1601.7	1635.5	1933.8	2961.0	3535.5	7545.7	22554.9	33348.2	32754.5	24272.7	22522.6
67°	1554.7	1567.9	1709.0	2542.2	3332.8	4625.9	18895.9	34090.3	34692.8	26403.5	22601.9
67.5°	1565.0	1579.7	1713.4	2426.1	3326.9	4251.2	17635.1	33797.8	34559.0	26572.5	22250.7
70°	1509.1	1554.7	1961.7	2424.6	3163.8	3532.6	10561.1	29283.6	30075.7	24690.1	18879.8
72.5°	534.9	537.8	847.9	1961.7	3440.0	3570.8	5303.3	21467.5	22053.8	18887.1	13611.7
75°	317.4	270.4	282.1	558.4	3287.2	3468.0	3059.4	13717.5	13936.5	10822.7	6893.3
77.5°	219.0	191.0	196.9	246.9	1252.0	3419.5	2430.5	7153.4	6919.7	3795.6	1468.0
80°	124.9	110.2	117.6	216.0	455.5	3190.2	2292.4	2900.7	2473.1	643.6	405.6
82.5°	66.1	55.8	67.6	177.8	317.4	1988.2	2296.8	1401.9	1110.9	217.5	276.3
85°	23.5	19.1	32.3	122.0	211.6	609.8	2129.3	1178.5	925.8	105.8	210.1
87.5°	4.4	4.4	13.2	50.0	85.2	186.6	1259.3	699.5	468.8	63.2	144.0
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°	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1
2.5°	5538.4	5475.3	5390.0	5285.7	5162.3	5053.5	4972.7	4888.9	4871.3	4841.9	4837.5
5°	5501.7	5393.0	5181.4	4938.9	4680.3	4446.6	4257.1	4088.1	4013.1	3948.5	3941.1
7.5°	5447.3	5284.2	4924.2	4533.3	4129.2	3761.8	3450.3	3229.9	3027.1	2930.1	2915.4
10°	5384.1	5150.5	4634.7	4092.5	3534.1	3015.4	2552.5	2164.5	1929.4	1789.8	1772.2
12.5°	5325.4	5019.7	4339.3	3635.5	2893.4	2199.8	1604.7	1234.4	987.5	887.6	875.8
15°	5297.4	4913.9	4063.1	3168.2	2223.3	1400.4	877.3	678.9	598.1	574.6	573.1
17.5°	5294.5	4824.3	3792.7	2684.7	1557.6	814.1	571.6	521.7	505.5	499.6	499.6
20°	5293.0	4739.0	3522.3	2183.6	989.0	542.2	476.1	464.4	452.6	445.2	445.2
22.5°	5309.2	4662.6	3240.2	1672.3	623.1	439.4	418.8	407.0	392.3	382.1	380.6
25°	5325.4	4603.9	2952.2	1190.3	451.1	382.1	361.5	345.3	324.8	311.5	310.1
27.5°	5328.3	4530.4	2643.6	796.5	377.7	333.6	307.1	282.1	258.6	245.4	243.9
30°	5284.2	4406.9	2301.2	537.8	333.6	289.5	254.2	227.8	205.7	195.4	195.4
32.5°	5197.5	4254.1	1925.0	405.6	296.8	248.3	210.1	185.2	170.5	166.1	164.6
35°	5119.6	4089.5	1538.5	343.9	266.0	210.1	171.9	155.8	146.9	145.5	144.0
37.5°	5074.1	3957.3	1175.6	311.5	236.6	176.3	145.5	133.7	129.3	126.4	127.8
40°	5109.4	3847.1	868.5	285.1	207.2	146.9	123.4	117.6	113.1	111.7	111.7
42.5°	5263.6	3828.0	645.1	261.6	179.3	122.0	107.3	102.9	99.9	98.5	99.9
45°	5669.2	3945.5	501.1	239.5	151.4	102.9	91.1	89.6	88.2	88.2	88.2
47.5°	6279.1	4188.0	417.3	214.5	126.4	88.2	79.4	77.9	76.4	77.9	77.9
50°	7312.1	4631.8	373.2	189.6	104.3	74.9	67.6	67.6	67.6	67.6	69.1
52.5°	8883.0	5504.6	343.9	164.6	85.2	63.2	57.3	57.3	58.8	58.8	60.2
55°	10633.1	6662.6	317.4	139.6	72.0	52.9	47.0	48.5	50.0	51.4	51.4
57.5°	12531.7	7945.4	295.4	114.6	61.7	42.6	39.7	41.1	42.6	45.6	45.6
60°	14822.6	9334.1	263.0	89.6	51.4	33.8	30.9	33.8	38.2	41.1	42.6
62.5°	17338.3	10677.2	221.9	70.5	42.6	26.5	25.0	30.9	36.7	39.7	41.1
65°	19057.6	11098.9	170.5	57.3	32.3	19.1	20.6	27.9	35.3	39.7	39.7
67°	18361.0	10062.9	139.6	48.5	26.5	14.7	19.1	27.9	35.3	38.2	39.7
67.5°	17877.6	9657.4	133.7	47.0	25.0	14.7	19.1	27.9	35.3	39.7	39.7
70°	14546.3	7254.8	111.7	35.3	20.6	13.2	16.2	26.5	33.8	38.2	38.2
72.5°	10107.0	4473.1	99.9	25.0	17.6	11.8	14.7	25.0	32.3	36.7	38.2
75°	4805.2	1619.4	85.2	19.1	16.2	10.3	13.2	25.0	32.3	36.7	36.7
77.5°	980.1	376.2	69.1	16.2	13.2	10.3	11.8	23.5	30.9	35.3	35.3
80°	321.8	145.5	51.4	14.7	13.2	10.3	11.8	22.0	30.9	33.8	35.3
82.5°	232.2	73.5	33.8	14.7	13.2	10.3	10.3	22.0	29.4	33.8	33.8
85°	177.8	51.4	22.0	14.7	13.2	10.3	10.3	20.6	27.9	32.3	32.3
87.5°	117.6	20.6	17.6	14.7	13.2	10.3	10.3	20.6	26.5	30.9	32.3
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)