

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: P193586

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193586
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: GLEON-AF-08-LED-E1-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26050 lumens
Efficiency: N/A
Efficacy: 78.0 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

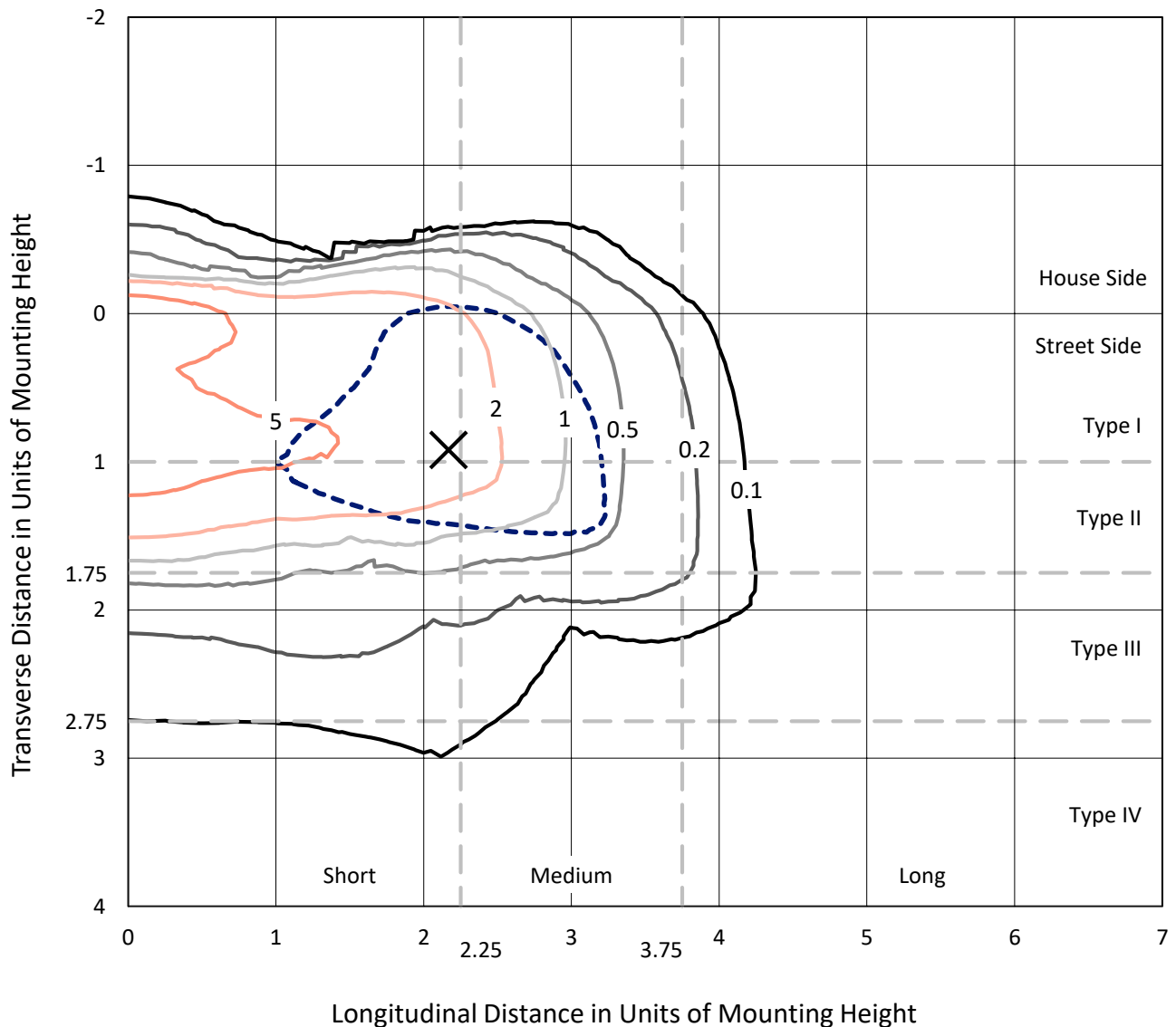


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

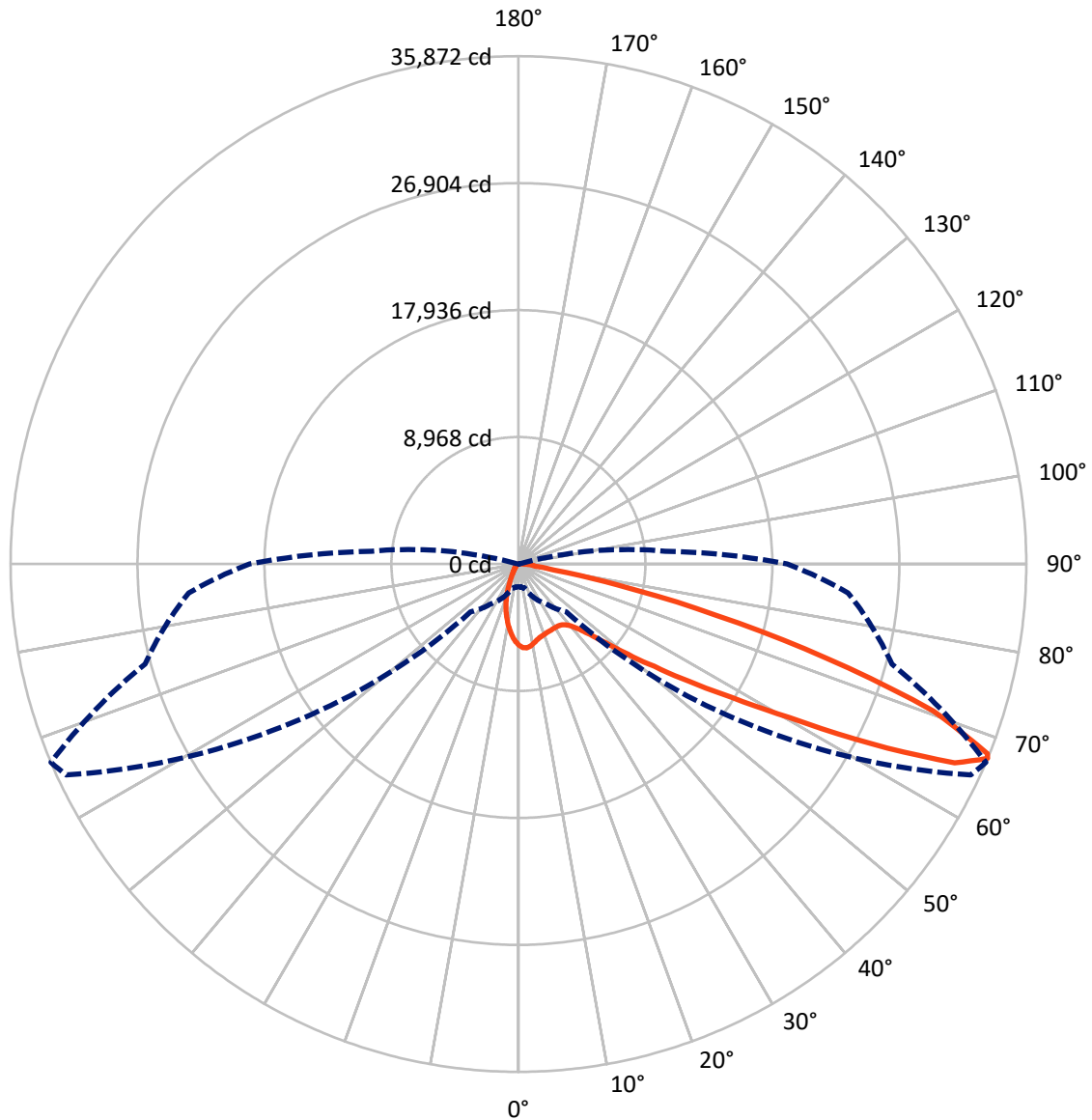


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Semi-Cutoff

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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	2704.8	0.0	2704.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23345.2	0.0	23345.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	26050.0	0.0	26050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.5	1.8
10°-20°	994.9	3.8
20°-30°	1446.6	5.6
30°-40°	2256.7	8.7
40°-50°	3997.6	15.3
50°-60°	6325.8	24.3
60°-70°	7245.3	27.8
70°-80°	3005.3	11.5
80°-90°	310.4	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°	26050.0	100.0
0°-180°	26050.0	100.0



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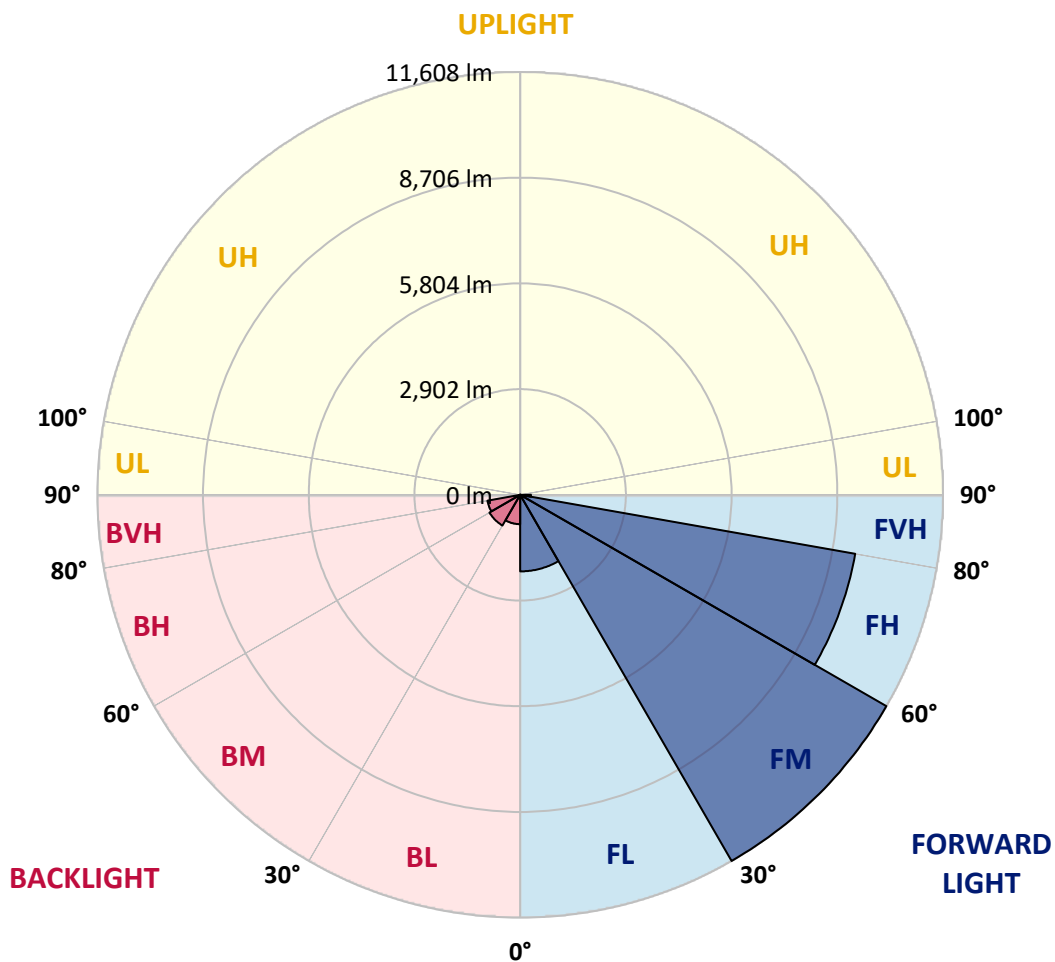
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.8	8.1			
FM (30°-60°)	11607.9	44.6			
FH (60°-80°)	9339.0	35.9			G4/12000
FVH (80°-90°)	296.5	1.1			G3/500
BL (0°-30°)	807.1	3.1	B2/1000		
BM (30°-60°)	972.1	3.7	B1/1000		
BH (60°-80°)	911.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.0	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°	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0
2.5°	5939.5	5951.6	5950.1	5959.2	5980.5	5982.0	5960.7	5919.7	5910.6	5857.4	5764.7
5°	5477.6	5512.5	5533.8	5620.4	5717.6	5834.6	5922.8	5954.7	5950.1	5912.1	5772.3
7.5°	4950.3	4985.3	5009.6	5111.4	5240.5	5441.1	5670.5	5858.9	5875.7	5916.7	5766.3
10°	4599.3	4605.4	4638.8	4736.1	4871.3	5076.4	5349.9	5679.7	5729.8	5880.2	5751.1
12.5°	4310.6	4315.2	4359.3	4464.1	4608.4	4815.1	5102.3	5483.6	5561.1	5834.6	5748.0
15°	4105.5	4122.2	4161.7	4271.1	4424.6	4629.7	4924.5	5339.3	5432.0	5817.9	5775.4
17.5°	4037.1	4055.4	4067.5	4146.5	4286.3	4486.9	4789.3	5245.1	5349.9	5827.0	5828.6
20°	4108.6	4122.2	4094.9	4114.6	4201.2	4380.5	4675.3	5164.6	5289.2	5837.7	5896.9
22.5°	4374.5	4380.5	4306.1	4219.5	4204.3	4303.0	4585.7	5100.7	5234.5	5866.5	5977.5
25°	4830.3	4819.7	4698.1	4511.2	4335.0	4289.4	4532.5	5061.2	5207.1	5896.9	6061.0
27.5°	5380.3	5395.5	5228.4	4956.4	4620.6	4380.5	4524.9	5044.5	5195.0	5918.2	6134.0
30°	6048.9	6070.1	5878.7	5536.8	5055.2	4605.4	4594.8	5041.5	5187.4	5904.5	6140.0
32.5°	6731.1	6756.9	6606.5	6254.0	5635.6	4982.2	4752.8	5074.9	5202.5	5857.4	6105.1
35°	7445.2	7481.7	7381.4	7079.1	6422.7	5526.2	5030.9	5176.7	5274.0	5852.9	6070.1
37.5°	8431.3	8464.8	8276.4	7955.8	7375.3	6255.5	5477.6	5368.2	5442.6	5925.8	6079.3
40°	9903.7	9899.1	9412.9	8922.1	8422.2	7182.4	6105.1	5714.6	5752.6	6146.1	6191.7
42.5°	11508.2	11500.6	10781.9	10035.9	9584.6	8323.5	6930.1	6313.3	6287.4	6551.8	6483.4
45°	12745.0	12743.5	12157.0	11316.8	10984.0	9633.2	7996.8	7145.9	7106.4	7211.2	7021.3
47.5°	13272.3	13281.4	12986.6	12395.6	12535.3	11404.9	9341.5	8352.3	8293.1	8250.5	7961.8
50°	12862.0	12880.3	12904.6	12789.1	13673.4	13785.8	11145.1	10052.6	10023.7	9833.8	9382.5
52.5°	11521.9	11614.6	11900.2	12266.4	14068.5	16071.1	13972.7	12164.6	12009.6	11807.5	11310.7
55°	9264.0	9365.8	9908.2	10797.1	13480.4	17572.3	17935.4	14887.4	14629.1	14025.9	13308.7
57.5°	6130.9	6288.9	7076.0	8206.5	11772.6	17813.9	21889.0	18666.3	17766.8	16115.1	15306.8
60°	3377.7	3529.6	4383.6	5407.7	8502.8	16619.6	24548.0	23586.2	21996.9	18450.5	17733.3
62.5°	2080.1	2162.2	2792.7	3745.4	5099.2	13117.3	25098.0	29768.8	27928.8	21457.5	20664.3
65°	1656.2	1691.1	1999.6	3061.7	3655.8	7802.3	23321.8	34482.1	33868.2	25098.0	23288.4
67°	1607.6	1621.2	1767.1	2628.6	3446.1	4783.2	19538.4	35249.4	35872.4	27301.2	23370.4
67.5°	1618.2	1633.4	1771.7	2508.6	3440.0	4395.7	18234.7	34947.0	35734.1	27476.0	23007.3
70°	1560.5	1607.6	2028.4	2507.1	3271.3	3652.7	10920.2	30279.3	31098.3	25529.6	19521.7
72.5°	553.1	556.1	876.7	2028.4	3557.0	3692.2	5483.6	22197.4	22803.7	19529.3	14074.5
75°	328.2	279.6	291.7	577.4	3399.0	3585.9	3163.5	14183.9	14410.3	11190.6	7127.7
77.5°	226.4	197.5	203.6	255.3	1294.6	3535.7	2513.1	7396.6	7155.0	3924.7	1517.9
80°	129.2	114.0	121.6	223.4	471.0	3298.7	2370.3	2999.4	2557.2	665.5	419.4
82.5°	68.4	57.7	69.9	183.9	328.2	2055.8	2374.9	1449.5	1148.7	224.9	285.7
85°	24.3	19.8	33.4	126.1	218.8	630.6	2201.7	1218.6	957.2	109.4	217.3
87.5°	4.6	4.6	13.7	51.7	88.1	193.0	1302.2	723.3	484.7	65.3	148.9
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°	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0	5745.0
2.5°	5726.8	5661.4	5573.3	5465.4	5337.8	5225.3	5141.8	5055.2	5036.9	5006.5	5002.0
5°	5688.8	5576.3	5357.5	5106.8	4839.4	4597.8	4401.8	4227.1	4149.6	4082.7	4075.1
7.5°	5632.5	5463.9	5091.6	4687.5	4269.6	3889.8	3567.6	3339.7	3130.0	3029.8	3014.6
10°	5567.2	5325.6	4792.3	4231.6	3654.2	3117.9	2639.3	2238.1	1995.0	1850.7	1832.4
12.5°	5506.4	5190.4	4486.9	3759.1	2991.8	2274.6	1659.2	1276.3	1021.1	917.7	905.6
15°	5477.6	5081.0	4201.2	3275.9	2298.9	1448.0	907.1	702.0	618.4	594.1	592.6
17.5°	5474.5	4988.3	3921.7	2776.0	1610.6	841.8	591.1	539.4	522.7	516.6	516.6
20°	5473.0	4900.2	3642.1	2257.9	1022.6	560.7	492.3	480.1	468.0	460.4	460.4
22.5°	5489.7	4821.2	3350.4	1729.1	644.2	454.3	433.0	420.9	405.7	395.1	393.5
25°	5506.4	4760.4	3052.5	1230.7	466.5	395.1	373.8	357.1	335.8	322.1	320.6
27.5°	5509.5	4684.4	2733.5	823.5	390.5	344.9	317.6	291.7	267.4	253.7	252.2
30°	5463.9	4556.8	2379.4	556.1	344.9	299.3	262.9	235.5	212.7	202.1	202.1
32.5°	5374.2	4398.8	1990.5	419.4	306.9	256.8	217.3	191.4	176.3	171.7	170.2
35°	5293.7	4228.6	1590.8	355.5	275.0	217.3	177.8	161.1	151.9	150.4	148.9
37.5°	5246.6	4091.8	1215.5	322.1	244.6	182.3	150.4	138.3	133.7	130.7	132.2
40°	5283.1	3977.9	898.0	294.8	214.2	151.9	127.6	121.6	117.0	115.5	115.5
42.5°	5442.6	3958.1	667.0	270.5	185.4	126.1	110.9	106.4	103.3	101.8	103.3
45°	5862.0	4079.7	518.1	247.7	156.5	106.4	94.2	92.7	91.2	91.2	91.2
47.5°	6492.5	4330.4	431.5	221.8	130.7	91.2	82.0	80.5	79.0	80.5	80.5
50°	7560.7	4789.3	385.9	196.0	107.9	77.5	69.9	69.9	69.9	69.9	71.4
52.5°	9185.0	5691.8	355.5	170.2	88.1	65.3	59.3	59.3	60.8	60.8	62.3
55°	10994.6	6889.1	328.2	144.3	74.5	54.7	48.6	50.1	51.7	53.2	53.2
57.5°	12957.7	8215.6	305.4	118.5	63.8	44.1	41.0	42.5	44.1	47.1	47.1
60°	15326.5	9651.5	272.0	92.7	53.2	34.9	31.9	34.9	39.5	42.5	44.1
62.5°	17927.8	11040.2	229.4	72.9	44.1	27.3	25.8	31.9	38.0	41.0	42.5
65°	19705.6	11476.3	176.3	59.3	33.4	19.8	21.3	28.9	36.5	41.0	41.0
67°	18985.4	10405.1	144.3	50.1	27.3	15.2	19.8	28.9	36.5	39.5	41.0
67.5°	18485.5	9985.7	138.3	48.6	25.8	15.2	19.8	28.9	36.5	41.0	41.0
70°	15040.9	7501.5	115.5	36.5	21.3	13.7	16.7	27.3	34.9	39.5	39.5
72.5°	10450.7	4625.2	103.3	25.8	18.2	12.2	15.2	25.8	33.4	38.0	39.5
75°	4968.6	1674.4	88.1	19.8	16.7	10.6	13.7	25.8	33.4	38.0	38.0
77.5°	1013.5	389.0	71.4	16.7	13.7	10.6	12.2	24.3	31.9	36.5	36.5
80°	332.8	150.4	53.2	15.2	13.7	10.6	12.2	22.8	31.9	34.9	36.5
82.5°	240.1	76.0	34.9	15.2	13.7	10.6	10.6	22.8	30.4	34.9	34.9
85°	183.9	53.2	22.8	15.2	13.7	10.6	10.6	21.3	28.9	33.4	33.4
87.5°	121.6	21.3	18.2	15.2	13.7	10.6	10.6	21.3	27.3	31.9	33.4
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)