

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: P269397

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL3-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21350.2 lumens
Efficiency: N/A
Efficacy: 85.7 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

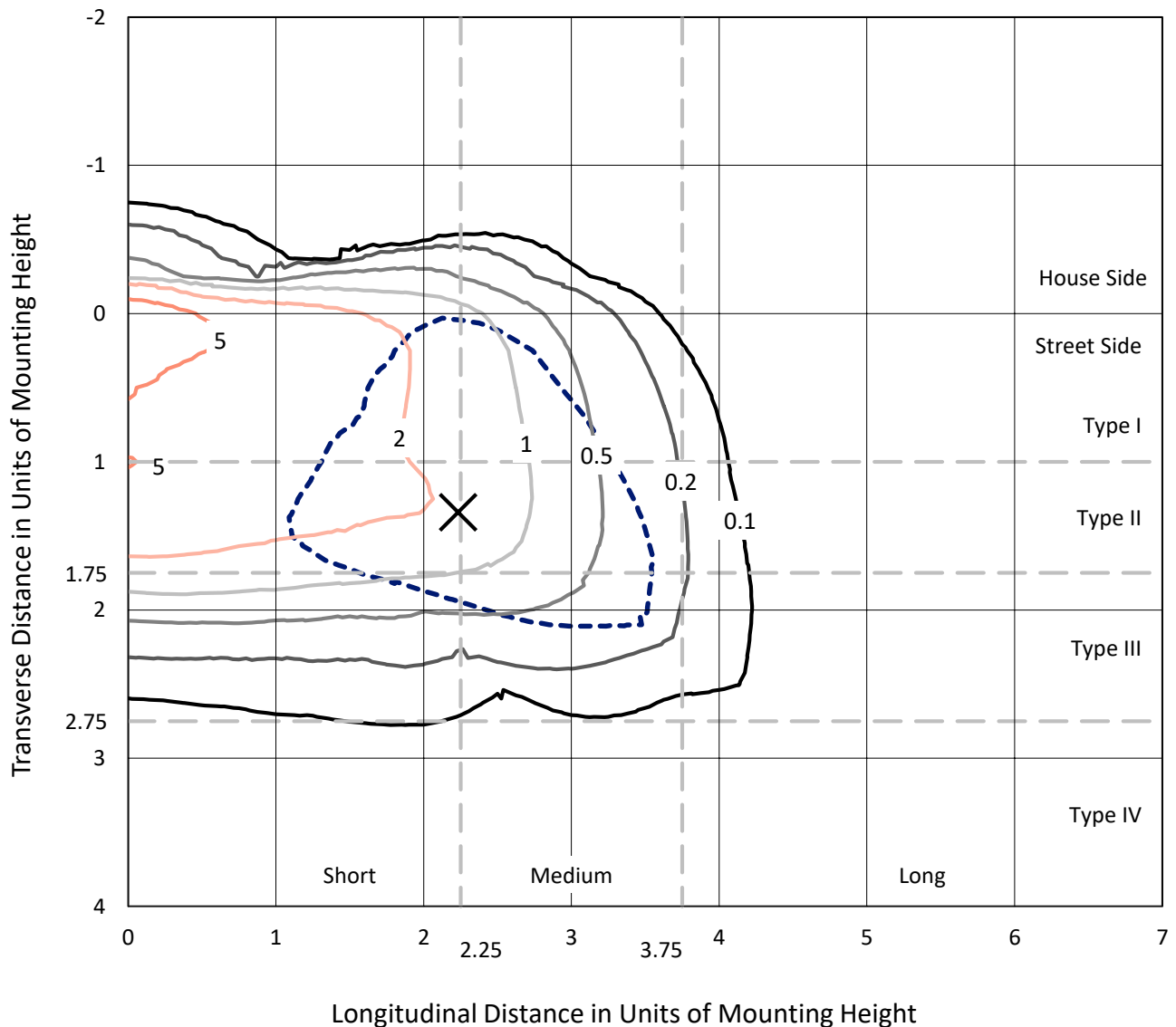


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

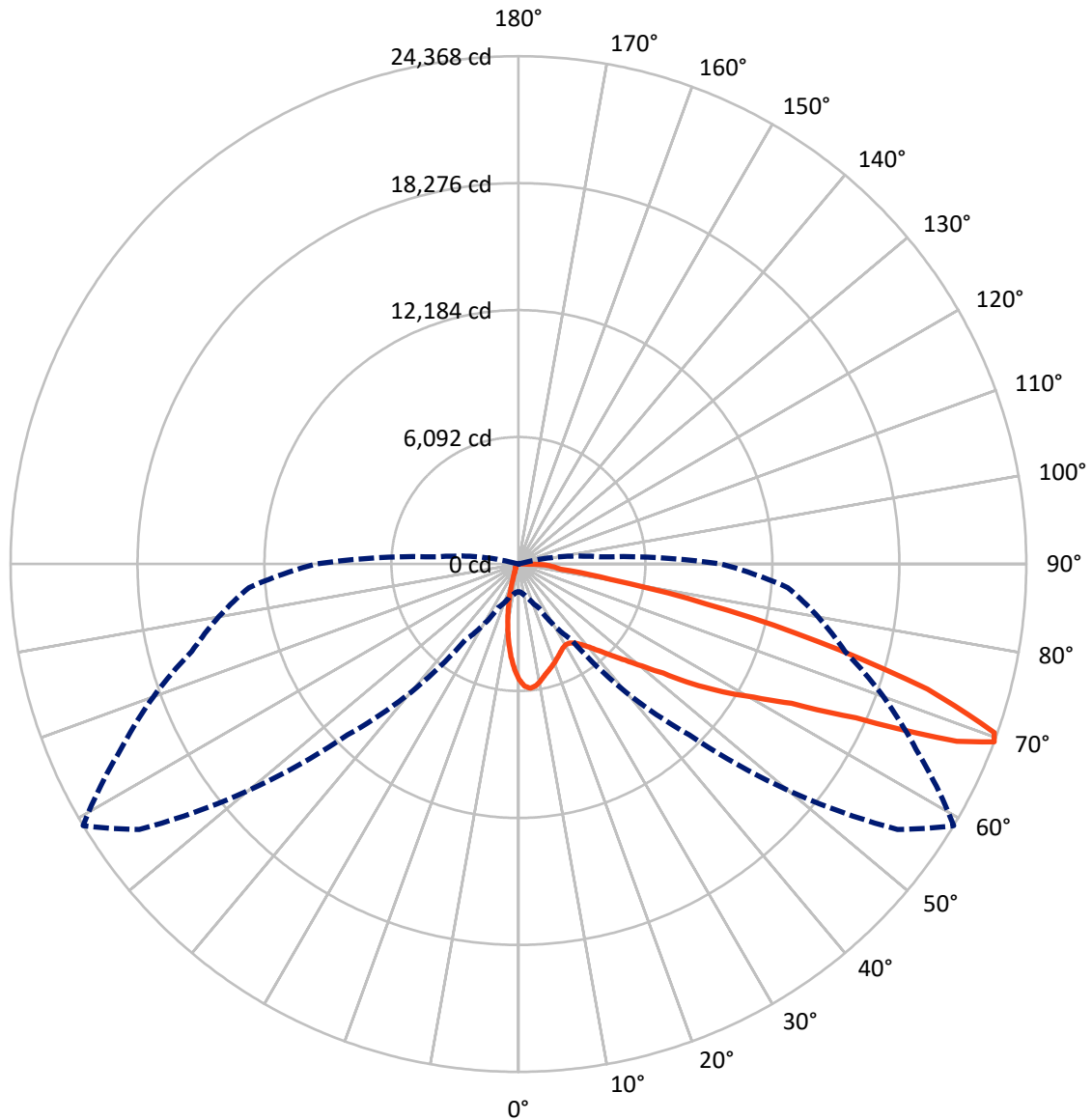


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Non-Cutoff

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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	1738.7	0.0	1738.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	19611.5	0.0	19611.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	21350.2	0.0	21350.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.1	2.1
10°-20°	932.0	4.4
20°-30°	1254.2	5.9
30°-40°	1821.0	8.5
40°-50°	3032.1	14.2
50°-60°	4730.0	22.2
60°-70°	5853.1	27.4
70°-80°	2966.2	13.9
80°-90°	310.4	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°	21350.2	100.0
0°-180°	21350.2	100.0



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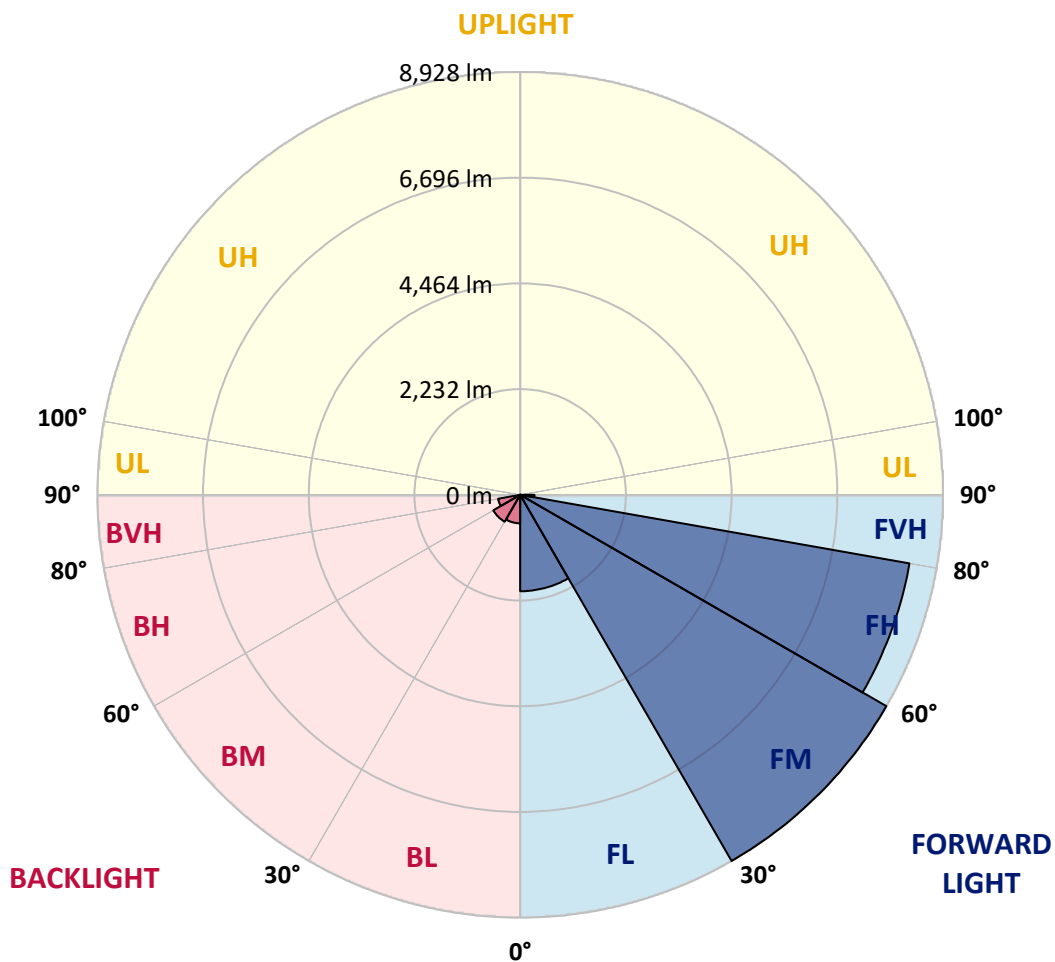
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2035.5	9.5			
FM	(30°-60°)	8928.0	41.8			
FH	(60°-80°)	8347.1	39.1			G4/12000
FVH	(80°-90°)	300.8	1.4			G3/500
BL	(0°-30°)	601.8	2.8	B2/1000		
BM	(30°-60°)	655.1	3.1	B1/1000		
BH	(60°-80°)	472.2	2.2	B1/500		G1/500
BVH	(80°-90°)	9.5	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°	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2
2.5°	6090.8	6088.4	6061.9	6049.7	6027.9	5982.2	5910.8	5873.5	5813.1	5708.1	5566.7
5°	6035.3	6064.2	6079.9	6081.2	6096.7	6079.9	6015.9	5984.5	5901.2	5732.3	5478.8
7.5°	5658.6	5669.5	5714.1	5752.7	5827.6	5898.8	5921.7	5908.5	5858.9	5677.8	5341.1
10°	5255.4	5266.3	5319.4	5370.0	5471.4	5581.3	5697.2	5721.3	5741.8	5600.7	5208.3
12.5°	4907.6	4918.5	4972.8	5039.2	5157.6	5292.8	5472.7	5512.4	5603.0	5527.0	5102.1
15°	4608.2	4613.1	4666.2	4748.4	4889.6	5063.3	5267.4	5331.4	5470.1	5475.1	5009.0
17.5°	4353.5	4365.6	4398.1	4476.7	4631.1	4846.0	5083.9	5175.7	5338.6	5431.6	4918.5
20°	4197.7	4209.7	4208.6	4252.0	4390.9	4620.3	4900.3	5010.2	5208.3	5387.0	4837.6
22.5°	4167.5	4167.5	4136.2	4130.1	4212.2	4404.2	4709.6	4843.7	5091.1	5367.6	4780.9
25°	4275.0	4270.3	4191.8	4127.7	4131.3	4246.1	4524.9	4684.3	4992.2	5380.8	4750.6
27.5°	4501.9	4495.9	4396.9	4275.0	4177.2	4176.0	4384.8	4556.4	4913.6	5443.6	4762.8
30°	4815.9	4813.5	4706.0	4552.7	4375.3	4212.2	4336.6	4492.3	4863.0	5557.2	4790.5
32.5°	5158.7	5155.2	5074.3	4912.4	4688.0	4375.3	4387.3	4517.7	4877.4	5708.1	4858.2
35°	5522.2	5516.1	5481.1	5339.9	5092.3	4675.9	4553.9	4655.2	4969.2	5933.8	4991.0
37.5°	5915.7	5921.7	5947.0	5811.9	5552.3	5097.2	4832.8	4901.6	5153.9	6240.4	5207.0
40°	6496.5	6495.3	6503.6	6326.3	6076.2	5612.7	5222.7	5244.5	5463.0	6647.4	5535.4
42.5°	7550.3	7476.8	7253.5	6891.2	6640.1	6201.9	5714.1	5691.1	5840.9	7150.8	5995.4
45°	8966.5	8809.6	8230.1	7535.9	7214.7	6865.8	6318.9	6245.2	6340.6	7755.6	6562.8
47.5°	10184.8	10021.8	9202.0	8207.2	7824.4	7496.0	7027.6	6894.9	6926.2	8432.8	7282.4
50°	10598.8	10519.2	9803.3	8791.5	8414.9	8289.3	7849.7	7688.1	7643.4	9216.4	8116.6
52.5°	10455.2	10449.1	9972.3	9170.5	8955.7	9110.3	8884.4	8697.3	8533.1	10042.2	8965.4
55°	10224.5	10254.7	10041.1	9502.6	9495.4	9859.9	10299.3	10143.7	9668.0	10939.3	9696.9
57.5°	9588.2	9717.4	10002.4	10130.4	10427.3	10800.4	11477.7	11569.5	11006.8	11626.3	10304.2
60°	7779.9	8063.5	8995.4	10220.9	11628.6	12558.2	12899.9	12978.4	12105.5	12197.2	11124.0
62.5°	5522.2	5811.9	6993.8	9066.8	11646.7	14867.8	15018.8	14710.9	13315.1	13043.6	12537.7
65°	2931.3	3154.7	4120.4	6544.7	10097.8	15403.7	18723.8	17806.4	15449.7	14708.4	14364.3
67.5°	1499.5	1567.1	1950.9	3202.9	6941.9	13682.3	22045.1	22690.9	19128.2	16360.0	14276.3
69°	1326.7	1366.6	1621.4	2315.7	4445.3	11588.8	22206.9	24368.0	21053.9	16222.3	12973.5
70°	1284.5	1319.6	1551.4	2095.8	3474.6	9718.8	21587.6	24220.6	21546.4	15698.4	12000.5
72.5°	1090.3	1120.4	1381.1	1851.9	2823.8	4824.3	17535.9	20523.9	19334.7	13077.3	8686.4
75°	729.2	828.1	1325.5	1736.1	2627.1	2740.5	11560.9	14831.6	13777.6	8820.5	4524.9
77.5°	175.1	188.4	374.2	1381.1	2402.4	2412.2	5945.9	9220.1	7520.3	3143.8	1069.6
80°	94.1	90.5	105.0	274.1	2237.0	2263.6	2676.6	4475.4	2685.0	521.6	352.6
82.5°	66.5	62.8	67.6	114.8	703.8	2062.1	1936.4	2025.9	1113.1	200.4	158.1
85°	24.2	22.9	37.4	103.8	221.0	1185.6	1989.7	1670.8	901.9	91.7	115.9
87.5°	8.4	7.2	14.6	56.8	67.6	504.7	1227.9	1262.8	354.9	55.5	54.3
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°	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2	5557.2
2.5°	5507.7	5432.8	5295.1	5153.9	5023.5	4866.6	4788.1	4710.8	4678.3	4666.2	4609.5
5°	5348.2	5221.5	4929.4	4636.1	4365.6	4078.2	3888.8	3736.6	3647.2	3603.8	3534.9
7.5°	5144.2	4936.5	4493.5	4040.8	3619.5	3204.2	2896.2	2659.6	2496.7	2418.1	2347.0
10°	4946.2	4669.7	4039.6	3422.6	2850.4	2299.9	1874.9	1567.1	1370.3	1279.7	1221.8
12.5°	4768.8	4410.1	3601.3	2820.1	2101.9	1457.2	1025.0	779.9	658.0	615.7	595.1
15°	4610.6	4171.2	3187.2	2248.0	1423.5	833.0	560.3	476.9	457.5	457.5	455.1
17.5°	4461.0	3937.0	2787.6	1710.7	893.5	509.5	426.2	415.2	415.2	420.1	420.1
20°	4317.3	3713.7	2401.3	1227.9	562.6	404.4	385.2	382.7	385.2	391.1	391.1
22.5°	4194.1	3510.8	2040.3	842.7	417.7	364.6	354.9	351.2	352.6	356.2	358.6
25°	4102.4	3339.4	1699.9	571.1	359.9	332.1	321.1	315.0	310.3	310.3	312.7
27.5°	4044.3	3194.6	1370.3	415.2	323.6	301.8	284.9	275.3	264.5	258.4	260.8
30°	4002.2	3056.8	1061.2	339.2	289.8	268.1	246.2	230.5	215.0	207.7	210.1
32.5°	3986.5	2945.8	793.3	299.4	259.6	235.4	208.9	188.4	171.4	165.4	166.5
35°	4028.7	2857.7	580.8	270.4	235.4	205.3	175.1	152.2	138.9	135.3	136.5
37.5°	4139.7	2810.5	434.6	246.2	213.6	179.9	146.1	124.3	115.9	115.9	117.0
40°	4349.9	2809.4	348.9	229.3	194.4	155.8	120.7	105.0	100.3	102.6	103.8
42.5°	4656.5	2873.4	304.3	213.6	177.4	132.8	100.3	89.3	88.2	90.5	91.7
45°	5075.5	2990.5	280.1	200.4	159.4	111.1	84.5	77.3	77.3	80.8	82.0
47.5°	5588.5	3161.9	259.6	187.1	141.3	93.0	72.5	67.6	68.8	72.5	73.7
50°	6206.7	3377.9	239.0	172.7	128.0	77.3	62.8	59.2	60.4	65.1	66.5
52.5°	6910.5	3668.9	222.2	159.4	111.1	64.0	53.1	50.8	53.1	57.9	59.2
55°	7514.1	3929.7	201.6	148.5	89.3	53.1	43.5	43.5	45.9	51.9	53.1
57.5°	8094.8	4202.6	183.6	128.0	70.0	42.3	36.2	37.4	41.1	47.2	48.2
60°	8947.2	4665.0	161.8	107.4	53.1	33.7	30.3	31.4	36.2	42.3	43.5
62.5°	10394.7	5368.8	140.0	89.3	41.1	26.6	24.2	26.6	32.6	39.9	41.1
65°	11701.1	5654.9	114.8	74.9	31.4	20.5	20.5	24.2	31.4	38.6	39.9
67.5°	10973.1	4760.4	89.3	59.2	24.2	15.7	16.9	22.9	30.3	38.6	39.9
69°	9704.2	3892.3	76.0	47.2	20.5	14.6	15.7	22.9	30.3	37.4	38.6
70°	8715.4	3286.2	67.6	39.9	18.1	14.6	15.7	21.6	30.3	37.4	38.6
72.5°	5837.2	1774.7	54.3	28.9	16.9	13.2	13.2	21.6	28.9	36.2	37.4
75°	2508.7	490.1	43.5	20.5	14.6	12.0	12.0	20.5	27.8	35.0	37.4
77.5°	458.8	124.3	35.0	18.1	14.6	12.0	10.9	19.4	26.6	33.7	35.0
80°	182.3	61.5	27.8	15.7	13.2	10.9	9.6	18.1	25.3	32.6	33.7
82.5°	109.9	35.0	22.9	14.6	13.2	9.6	8.4	15.7	24.2	31.4	32.6
85°	89.3	24.2	18.1	14.6	12.0	9.6	7.2	14.6	21.6	30.3	31.4
87.5°	43.5	16.9	16.9	13.2	12.0	9.6	7.2	13.2	20.5	28.9	30.3
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)