

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: P269389

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269389
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-06-LED-E1-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 20699.4 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

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

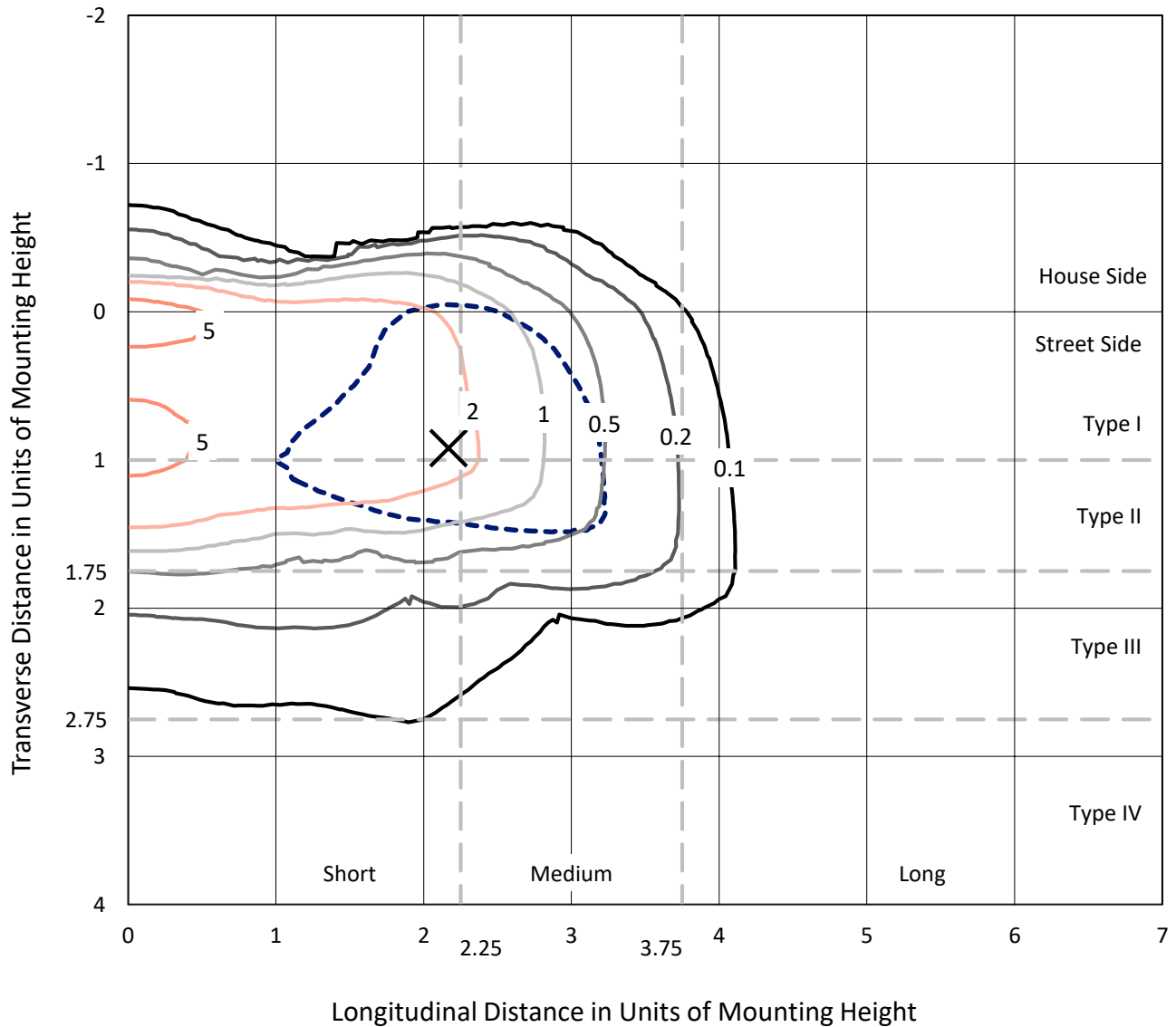


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

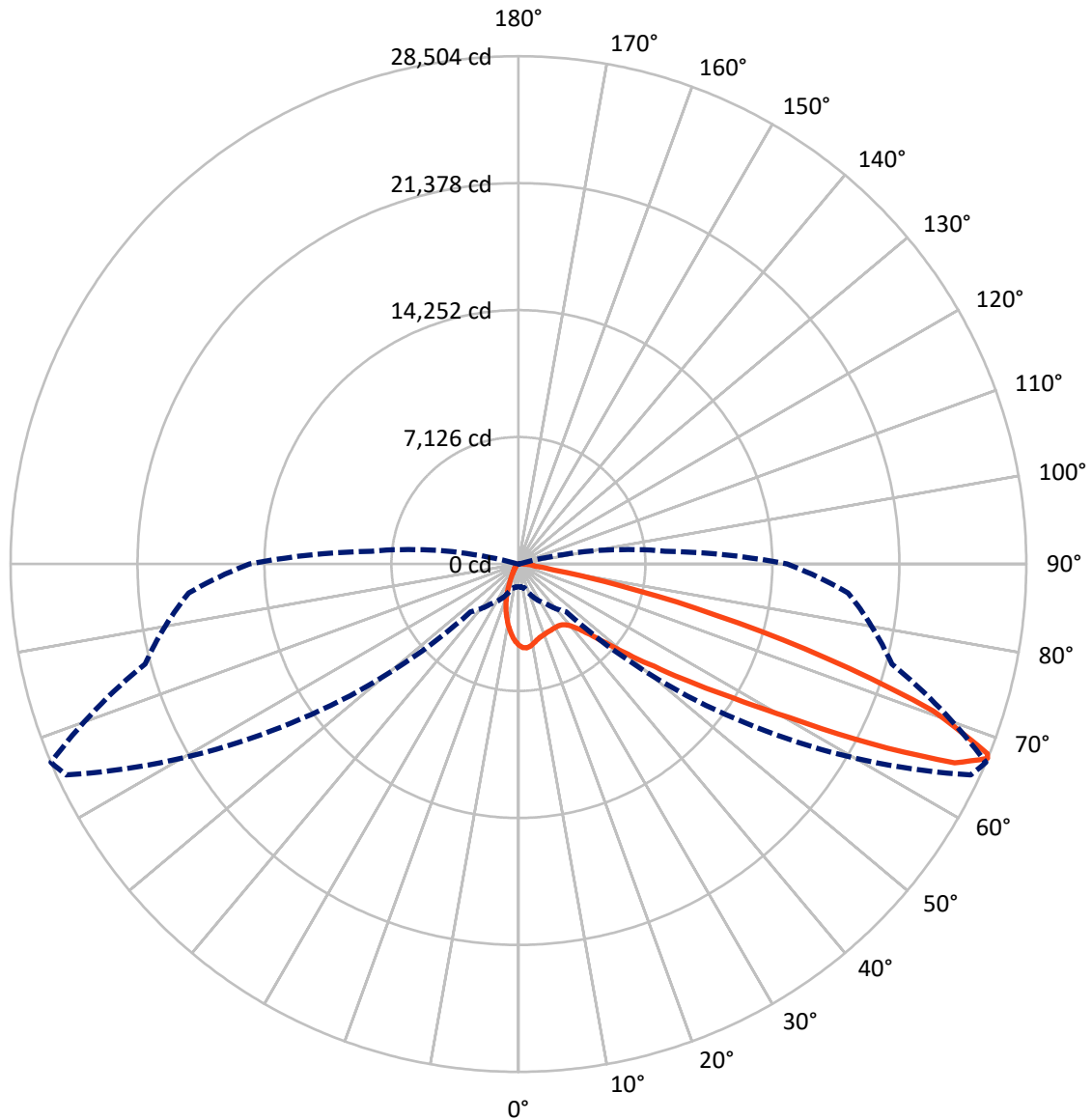


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - Semi-Cutoff

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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	2149.2	0.0	2149.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18550.2	0.0	18550.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	20699.4	0.0	20699.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	1.8
10°-20°	790.6	3.8
20°-30°	1149.4	5.6
30°-40°	1793.2	8.7
40°-50°	3176.5	15.3
50°-60°	5026.5	24.3
60°-70°	5757.1	27.8
70°-80°	2388.0	11.5
80°-90°	246.7	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°	20699.4	100.0
0°-180°	20699.4	100.0



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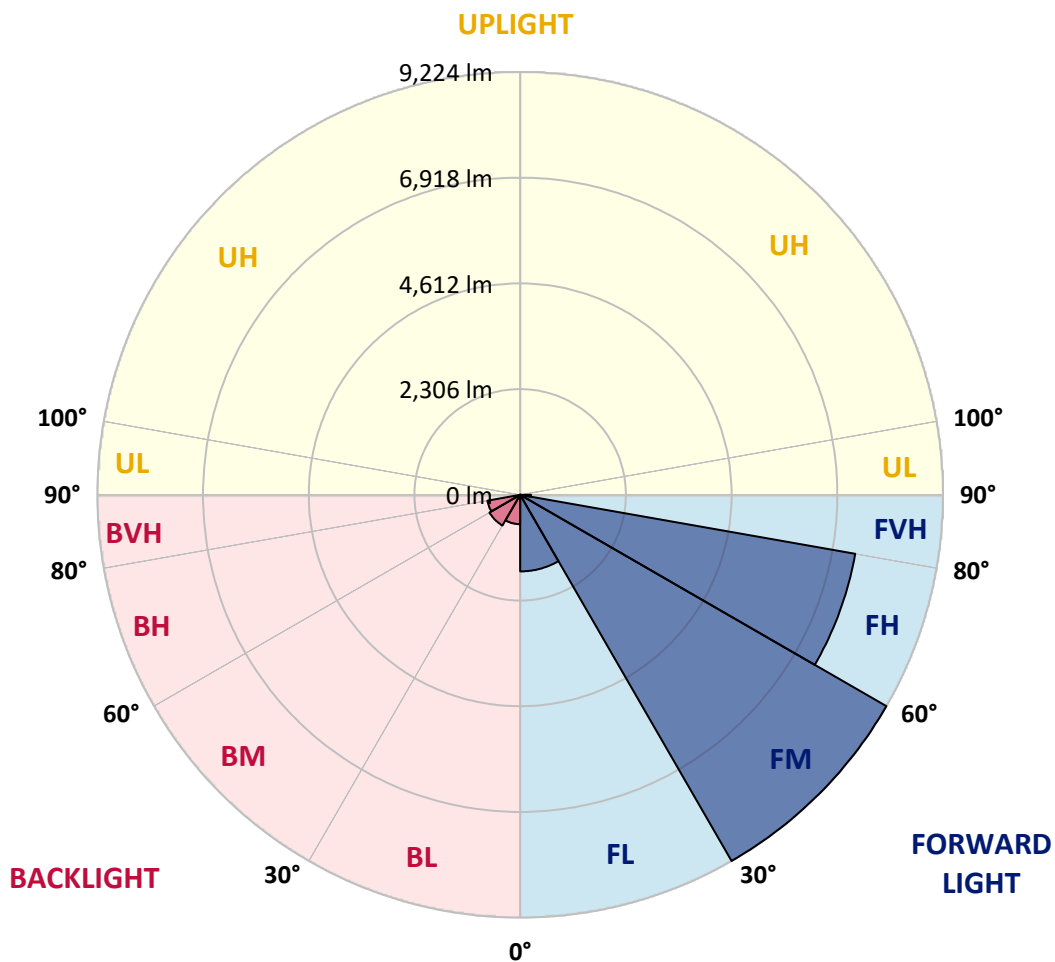
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.1	8.1			
FM (30°-60°)	9223.7	44.6			
FH (60°-80°)	7420.8	35.9			G3/7500
FVH (80°-90°)	235.6	1.1			G3/500
BL (0°-30°)	641.3	3.1	B2/1000		
BM (30°-60°)	772.4	3.7	B1/1000		
BH (60°-80°)	724.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	11.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9
2.5°	4719.5	4729.1	4728.0	4735.2	4752.2	4753.3	4736.5	4703.9	4696.6	4654.4	4580.6
5°	4352.5	4380.2	4397.2	4466.1	4543.3	4636.2	4706.2	4731.6	4728.0	4697.7	4586.7
7.5°	3933.6	3961.3	3980.6	4061.5	4164.2	4323.5	4505.8	4655.6	4668.9	4701.4	4581.9
10°	3654.7	3659.4	3686.0	3763.3	3870.7	4033.7	4251.0	4513.1	4552.9	4672.4	4569.8
12.5°	3425.2	3428.9	3463.9	3547.1	3661.9	3826.2	4054.3	4357.3	4418.9	4636.2	4567.4
15°	3262.3	3275.5	3306.9	3393.8	3515.7	3678.7	3913.0	4242.6	4316.3	4622.9	4589.1
17.5°	3207.9	3222.4	3232.1	3294.9	3406.0	3565.4	3805.6	4167.7	4251.0	4630.3	4631.4
20°	3264.7	3275.5	3253.8	3269.6	3338.3	3480.8	3715.0	4103.7	4202.8	4638.7	4685.6
22.5°	3475.9	3480.8	3421.6	3352.8	3340.7	3419.2	3643.7	4053.1	4159.3	4661.6	4749.7
25°	3838.2	3829.7	3733.1	3584.6	3444.6	3408.3	3601.6	4021.7	4137.7	4685.6	4816.2
27.5°	4275.3	4287.3	4154.5	3938.3	3671.6	3480.8	3595.5	4008.3	4127.9	4702.6	4874.1
30°	4806.4	4823.4	4671.2	4399.5	4016.9	3659.4	3651.0	4006.0	4122.0	4691.8	4879.0
32.5°	5348.6	5369.1	5249.5	4969.5	4478.1	3958.9	3776.6	4032.5	4134.0	4654.4	4851.1
35°	5916.0	5945.1	5865.4	5625.0	5103.5	4391.2	3997.5	4113.5	4190.8	4650.7	4823.4
37.5°	6699.6	6726.1	6576.4	6321.7	5860.5	4970.6	4352.5	4265.6	4324.7	4708.6	4830.6
40°	7869.5	7865.9	7479.6	7089.6	6692.4	5707.1	4851.1	4540.8	4571.0	4883.7	4919.9
42.5°	9144.4	9138.5	8567.3	7974.6	7616.0	6614.0	5506.7	5016.6	4996.1	5206.0	5151.8
45°	10127.2	10126.1	9660.1	8992.4	8727.9	7654.5	6354.3	5678.1	5646.7	5730.1	5579.2
47.5°	10546.2	10553.5	10319.2	9849.6	9960.6	9062.5	7422.8	6636.8	6589.7	6555.9	6326.6
50°	10220.2	10234.7	10254.1	10162.3	10864.9	10954.3	8855.9	7987.8	7964.9	7813.9	7455.5
52.5°	9155.3	9228.9	9456.0	9746.9	11178.9	12770.1	11102.8	9666.0	9543.0	9382.3	8987.5
55°	7361.3	7442.1	7873.1	8579.4	10711.6	13963.1	14251.6	11829.6	11624.3	11145.0	10575.1
57.5°	4871.7	4997.2	5622.6	6520.8	9354.6	14155.0	17393.2	14832.4	14117.6	12805.2	12162.8
60°	2684.0	2804.7	3483.2	4297.0	6756.3	13206.1	19505.9	18741.7	17478.9	14660.9	14091.1
62.5°	1652.8	1718.1	2219.2	2976.2	4051.9	10423.0	19943.0	23654.3	22192.3	17050.2	16419.9
65°	1315.9	1343.8	1588.9	2432.8	2904.8	6199.7	18531.7	27399.7	26911.9	19943.0	18505.1
67°	1277.4	1288.2	1404.1	2088.6	2738.3	3800.8	15525.2	28009.3	28504.4	21693.7	18570.2
67.5°	1285.8	1298.0	1407.7	1993.2	2733.5	3492.9	14489.4	27769.0	28394.4	21832.5	18281.6
70°	1239.9	1277.4	1611.7	1992.1	2599.4	2902.5	8677.2	24060.1	24710.8	20286.0	15512.0
72.5°	439.5	441.8	696.6	1611.7	2826.3	2933.9	4357.3	17638.2	18119.9	15518.1	11183.7
75°	260.8	222.2	231.9	458.8	2700.8	2849.3	2513.6	11270.7	11450.5	8892.1	5663.6
77.5°	179.9	156.9	161.8	202.8	1028.6	2809.4	1996.9	5877.4	5685.5	3118.6	1206.2
80°	102.6	90.5	96.6	177.4	374.2	2621.2	1883.4	2383.4	2032.0	528.8	333.2
82.5°	54.3	45.9	55.5	146.1	260.8	1633.6	1887.1	1151.7	912.8	178.8	227.0
85°	19.4	15.7	26.6	100.3	173.8	501.1	1749.4	968.4	760.7	87.0	172.7
87.5°	3.7	3.7	10.9	41.1	70.0	153.3	1034.7	574.6	385.2	51.9	118.3
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°	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9	4564.9
2.5°	4550.5	4498.6	4428.6	4342.9	4241.3	4152.1	4085.8	4016.9	4002.4	3978.2	3974.6
5°	4520.4	4431.0	4257.1	4058.0	3845.5	3653.4	3497.7	3358.9	3297.3	3244.1	3238.1
7.5°	4475.6	4341.6	4045.8	3724.7	3392.7	3090.8	2834.8	2653.8	2487.1	2407.5	2395.4
10°	4423.8	4231.7	3807.9	3362.4	2903.7	2477.4	2097.2	1778.5	1585.2	1470.5	1456.1
12.5°	4375.5	4124.3	3565.4	2987.0	2377.3	1807.4	1318.4	1014.1	811.3	729.2	719.6
15°	4352.5	4037.4	3338.3	2603.1	1826.8	1150.5	720.8	557.8	491.5	472.1	470.9
17.5°	4350.1	3963.7	3116.2	2205.8	1279.7	668.9	469.6	428.6	415.3	410.4	410.4
20°	4348.9	3893.8	2894.0	1794.2	812.5	445.5	391.2	381.5	371.9	365.8	365.8
22.5°	4362.2	3830.9	2662.1	1374.0	511.9	360.9	344.1	334.3	322.3	313.9	312.7
25°	4375.5	3782.7	2425.6	978.0	370.7	313.9	297.0	283.8	266.8	255.9	254.8
27.5°	4377.9	3722.2	2172.0	654.3	310.3	274.1	252.3	231.9	212.4	201.6	200.4
30°	4341.6	3620.9	1890.8	441.8	274.1	237.8	208.9	187.1	169.1	160.5	160.5
32.5°	4270.5	3495.2	1581.6	333.2	243.9	204.1	172.7	152.2	140.0	136.5	135.3
35°	4206.5	3360.1	1264.0	282.5	218.6	172.7	141.3	128.0	120.7	119.6	118.3
37.5°	4168.9	3251.3	965.9	255.9	194.5	144.8	119.6	109.9	106.3	103.8	105.0
40°	4198.0	3160.9	713.6	234.2	170.1	120.7	101.4	96.6	93.0	91.7	91.7
42.5°	4324.7	3145.1	530.0	215.0	147.3	100.3	88.2	84.5	82.0	80.8	82.0
45°	4657.9	3241.8	411.8	196.8	124.3	84.5	74.9	73.7	72.5	72.5	72.5
47.5°	5159.0	3441.0	343.0	176.2	103.8	72.5	65.1	64.0	62.8	64.0	64.0
50°	6007.8	3805.6	306.7	155.8	85.7	61.5	55.5	55.5	55.5	55.5	56.8
52.5°	7298.4	4522.7	282.5	135.3	70.0	51.9	47.2	47.2	48.2	48.2	49.4
55°	8736.3	5474.1	260.8	114.8	59.2	43.5	38.6	39.9	41.1	42.3	42.3
57.5°	10296.4	6528.2	242.7	94.2	50.8	35.0	32.6	33.7	35.0	37.4	37.4
60°	12178.5	7669.1	216.1	73.7	42.3	27.8	25.3	27.8	31.4	33.7	35.0
62.5°	14245.5	8772.6	182.3	57.9	35.0	21.6	20.5	25.3	30.3	32.6	33.7
65°	15658.1	9119.1	140.0	47.2	26.6	15.7	16.9	22.9	28.9	32.6	32.6
67°	15085.9	8267.9	114.8	39.9	21.6	12.0	15.7	22.9	28.9	31.4	32.6
67.5°	14688.6	7934.6	109.9	38.6	20.5	12.0	15.7	22.9	28.9	32.6	32.6
70°	11951.6	5960.8	91.7	28.9	16.9	10.9	13.2	21.6	27.8	31.4	31.4
72.5°	8304.1	3675.1	82.0	20.5	14.6	9.6	12.0	20.5	26.6	30.3	31.4
75°	3948.1	1330.5	70.0	15.7	13.2	8.4	10.9	20.5	26.6	30.3	30.3
77.5°	805.3	309.0	56.8	13.2	10.9	8.4	9.6	19.4	25.3	28.9	28.9
80°	264.5	119.6	42.3	12.0	10.9	8.4	9.6	18.1	25.3	27.8	28.9
82.5°	190.8	60.4	27.8	12.0	10.9	8.4	8.4	18.1	24.2	27.8	27.8
85°	146.1	42.3	18.1	12.0	10.9	8.4	8.4	16.9	22.9	26.6	26.6
87.5°	96.6	16.9	14.6	12.0	10.9	8.4	8.4	16.9	21.6	25.3	26.6
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)