

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: P191044

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191044
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-SL2-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 24371.8 lumens
Efficiency: N/A
Efficacy: 97.9 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 - 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

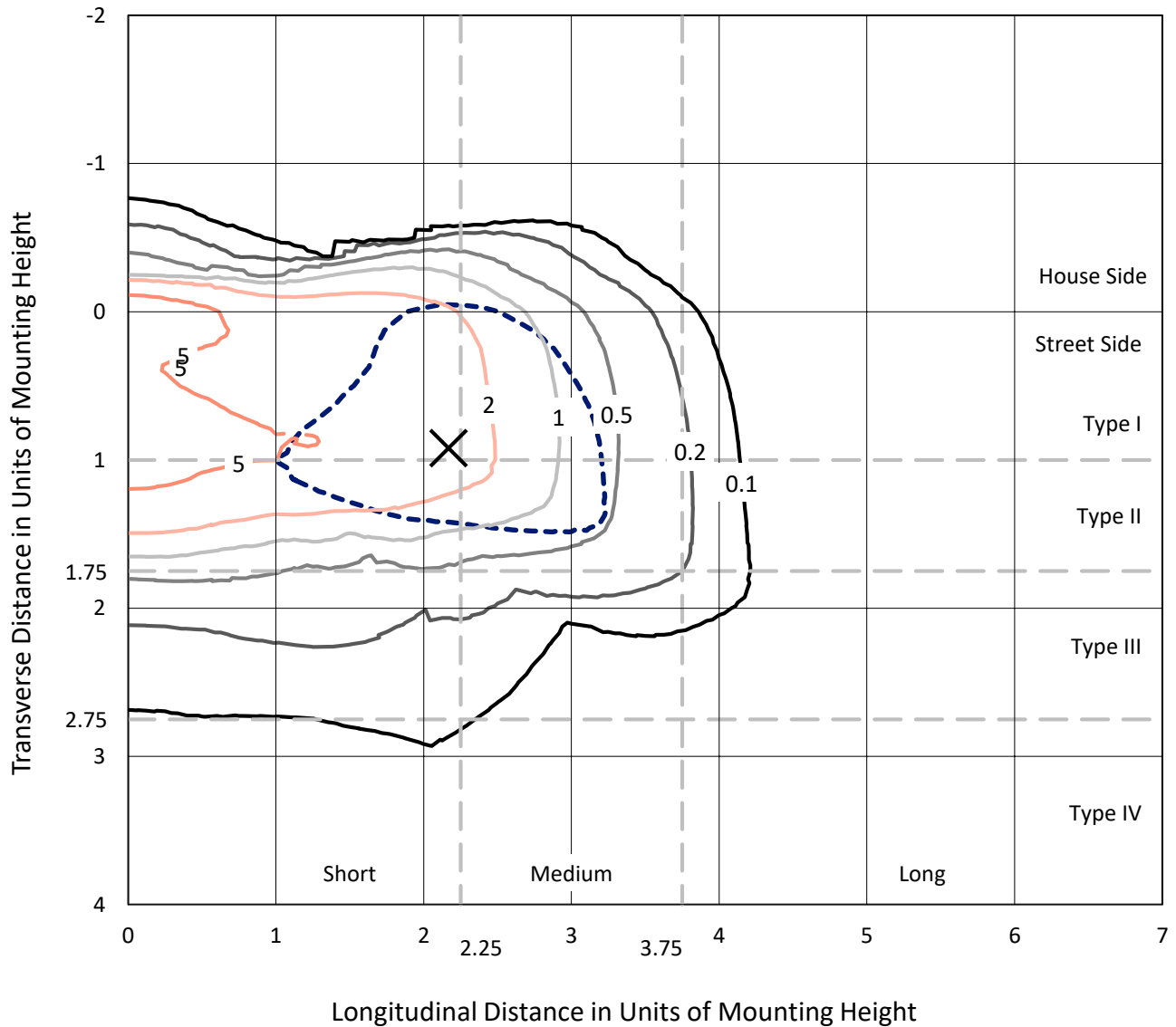


REPORT NUMBER: P191044

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

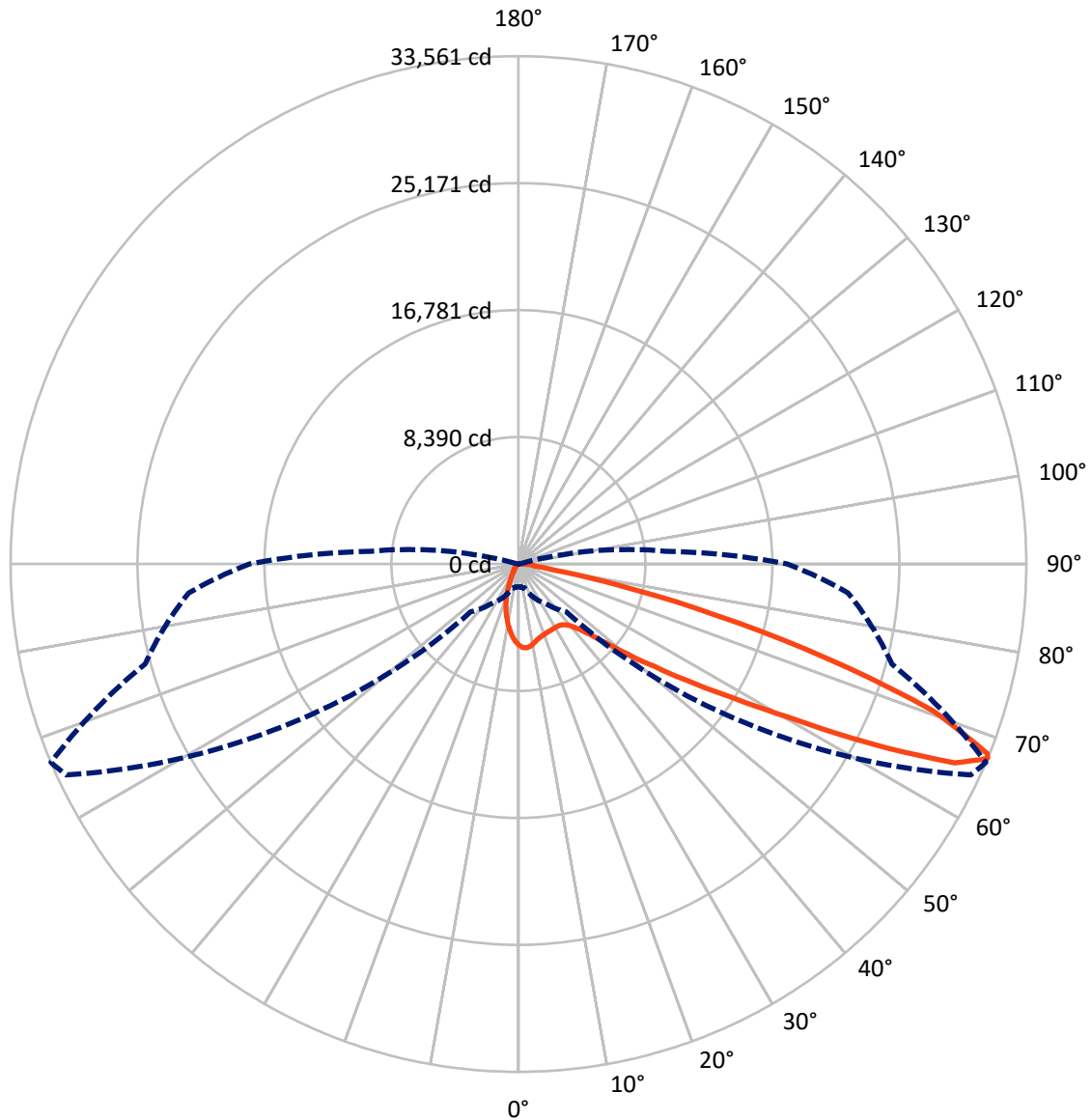
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191044
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P191044

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2530.5	0.0	2530.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21841.3	0.0	21841.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	24371.8	0.0	24371.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	1.8
10°-20°	930.8	3.8
20°-30°	1353.4	5.6
30°-40°	2111.3	8.7
40°-50°	3740.1	15.3
50°-60°	5918.3	24.3
60°-70°	6778.5	27.8
70°-80°	2811.7	11.5
80°-90°	290.4	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°	24371.8	100.0
0°-180°	24371.8	100.0

Coefficient of Utilization



REPORT NUMBER: P191044

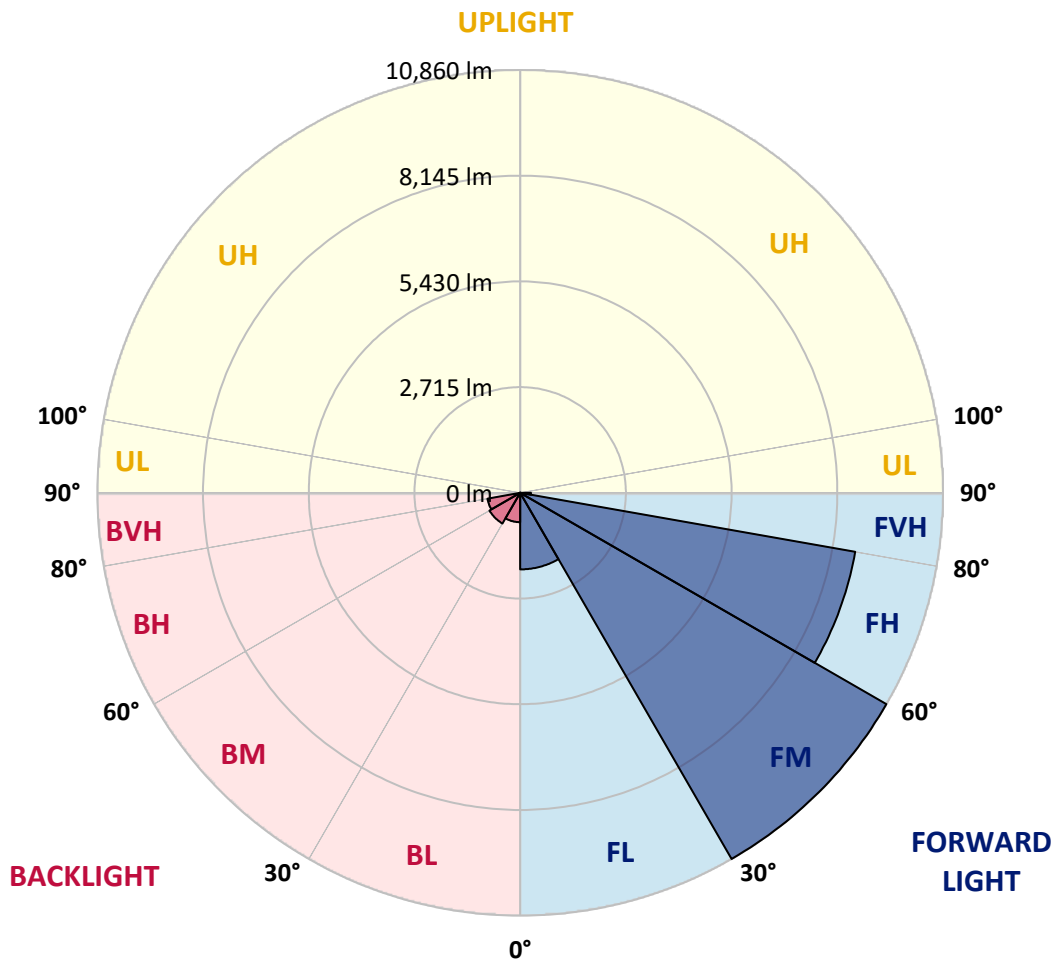
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1966.4	8.1			
FM	(30°-60°)	10860.1	44.6			
FH	(60°-80°)	8737.4	35.9			G4/12000
FVH	(80°-90°)	277.4	1.1			G3/500
BL	(0°-30°)	755.1	3.1	B2/1000		
BM	(30°-60°)	909.5	3.7	B1/1000		
BH	(60°-80°)	852.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	13.1	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-G4

Type II Short





REPORT NUMBER: P191044

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9
2.5°	5556.9	5568.2	5566.8	5575.3	5595.2	5596.7	5576.7	5538.4	5529.9	5480.0	5393.4
5°	5124.7	5157.4	5177.3	5258.3	5349.3	5458.8	5541.2	5571.1	5566.8	5531.3	5400.5
7.5°	4631.4	4664.1	4686.9	4782.1	4902.9	5090.6	5305.2	5481.5	5497.1	5535.5	5394.7
10°	4303.0	4308.7	4340.0	4431.0	4557.5	4749.4	5005.3	5313.7	5360.7	5501.4	5380.6
12.5°	4033.0	4037.2	4078.4	4176.5	4311.5	4504.9	4773.6	5130.4	5202.8	5458.8	5377.8
15°	3841.1	3856.6	3893.7	3996.0	4139.6	4331.5	4607.3	4995.4	5082.0	5443.1	5403.3
17.5°	3777.0	3794.1	3805.5	3879.4	4010.2	4197.9	4480.7	4907.2	5005.3	5451.6	5453.0
20°	3843.8	3856.6	3831.1	3849.6	3930.6	4098.4	4374.1	4831.8	4948.4	5461.6	5517.1
22.5°	4092.6	4098.4	4028.7	3947.7	3933.5	4025.8	4290.3	4772.2	4897.3	5488.6	5592.4
25°	4519.1	4509.2	4395.4	4220.6	4055.7	4013.0	4240.4	4735.1	4871.7	5517.1	5670.5
27.5°	5033.7	5048.0	4891.5	4637.1	4322.9	4098.4	4233.4	4719.6	4860.2	5536.9	5738.8
30°	5659.2	5679.1	5500.0	5180.1	4729.5	4308.7	4298.7	4716.7	4853.2	5524.1	5744.5
32.5°	6297.5	6321.6	6180.9	5851.1	5272.5	4661.3	4446.6	4748.0	4867.4	5480.0	5711.7
35°	6965.6	6999.7	6905.9	6623.0	6008.9	5170.2	4706.8	4843.3	4934.2	5475.9	5679.1
37.5°	7888.2	7919.5	7743.2	7443.2	6900.2	5852.5	5124.7	5022.4	5092.0	5544.1	5687.6
40°	9265.7	9261.4	8806.5	8347.4	7879.7	6719.7	5711.7	5346.5	5381.9	5750.2	5792.9
42.5°	10766.9	10759.7	10087.3	9389.4	8967.2	7787.2	6483.7	5906.5	5882.4	6129.7	6065.8
45°	11923.9	11922.6	11373.8	10587.7	10276.4	9012.6	7481.7	6685.6	6648.6	6746.7	6569.0
47.5°	12417.3	12425.8	12150.0	11597.0	11727.8	10670.2	8739.7	7814.2	7758.8	7719.0	7448.9
50°	12033.4	12050.5	12073.3	11965.1	12792.5	12897.8	10427.0	9405.0	9378.0	9200.3	8778.0
52.5°	10779.7	10866.3	11133.6	11476.2	13162.1	15035.7	13072.6	11380.9	11235.9	11046.8	10582.0
55°	8667.2	8762.4	9270.0	10101.5	12612.0	16440.3	16780.0	13928.4	13686.7	13122.3	12451.4
57.5°	5736.0	5883.8	6620.1	7677.8	11014.2	16666.2	20478.9	17463.7	16622.2	15077.0	14320.7
60°	3160.1	3302.3	4101.2	5059.3	7955.0	15549.0	22966.6	22066.7	20579.8	17261.9	16590.9
62.5°	1946.1	2022.9	2612.8	3504.1	4770.7	12272.2	23481.2	27851.1	26129.5	20075.1	19333.1
65°	1549.5	1582.2	1870.8	2864.5	3420.2	7299.7	21819.3	32260.7	31686.3	23481.2	21788.1
67°	1504.0	1516.8	1653.3	2459.3	3224.0	4475.0	18279.7	32978.5	33561.4	25542.5	21864.9
67.5°	1514.0	1528.2	1657.5	2347.0	3218.4	4112.6	17060.1	32695.7	33432.0	25705.9	21525.1
70°	1460.0	1504.0	1897.8	2345.5	3060.6	3417.4	10216.7	28328.7	29094.9	23884.9	18264.1
72.5°	517.4	520.3	820.2	1897.8	3327.9	3454.4	5130.4	20767.4	21334.7	18271.2	13167.8
75°	307.1	261.6	272.9	540.2	3180.0	3354.9	2959.7	13270.1	13482.0	10469.7	6668.5
77.5°	211.9	184.8	190.5	238.9	1211.2	3307.9	2351.3	6920.1	6694.1	3671.9	1420.2
80°	120.8	106.6	113.8	209.0	440.7	3086.1	2217.7	2806.2	2392.5	622.7	392.3
82.5°	63.9	54.0	65.4	172.0	307.1	1923.4	2221.8	1356.1	1074.7	210.4	267.3
85°	22.7	18.5	31.3	117.9	204.7	589.9	2059.8	1140.1	895.6	102.4	203.3
87.5°	4.3	4.3	12.8	48.3	82.4	180.6	1218.2	676.7	453.5	61.2	139.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191044

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9	5374.9
2.5°	5357.8	5296.7	5214.3	5113.3	4993.9	4888.7	4810.5	4729.5	4712.4	4684.0	4679.8
5°	5322.3	5217.0	5012.4	4777.8	4527.7	4301.6	4118.2	3954.7	3882.3	3819.7	3812.6
7.5°	5269.7	5111.9	4763.6	4385.5	3994.5	3639.1	3337.8	3124.6	2928.4	2834.6	2820.4
10°	5208.6	4982.5	4483.6	3959.0	3418.8	2917.0	2469.2	2094.0	1866.5	1731.4	1714.4
12.5°	5151.7	4856.0	4197.9	3516.9	2799.0	2128.0	1552.3	1194.1	955.2	858.7	847.2
15°	5124.7	4753.7	3930.6	3064.9	2150.9	1354.7	848.6	656.7	578.6	555.9	554.4
17.5°	5121.8	4666.9	3669.0	2597.2	1506.8	787.6	553.0	504.6	489.0	483.3	483.3
20°	5120.4	4584.5	3407.4	2112.4	956.7	524.6	460.5	449.2	437.8	430.8	430.8
22.5°	5136.0	4510.6	3134.5	1617.7	602.7	425.0	405.2	393.7	379.5	369.6	368.2
25°	5151.7	4453.7	2855.9	1151.4	436.4	369.6	349.7	334.1	314.1	301.4	299.9
27.5°	5154.5	4382.6	2557.4	770.5	365.3	322.7	297.1	272.9	250.2	237.4	236.0
30°	5111.9	4263.2	2226.1	520.3	322.7	280.1	245.9	220.3	199.1	189.0	189.0
32.5°	5028.0	4115.4	1862.3	392.3	287.1	240.3	203.3	179.1	164.9	160.6	159.2
35°	4952.7	3956.2	1488.4	332.7	257.3	203.3	166.3	150.7	142.2	140.8	139.3
37.5°	4908.6	3828.2	1137.2	301.4	228.8	170.6	140.8	129.4	125.1	122.2	123.7
40°	4942.7	3721.6	840.1	275.8	200.4	142.2	119.4	113.8	109.5	108.0	108.0
42.5°	5092.0	3703.2	624.1	253.1	173.4	117.9	103.7	99.5	96.7	95.2	96.7
45°	5484.3	3816.8	484.8	231.7	146.4	99.5	88.2	86.7	85.3	85.3	85.3
47.5°	6074.3	4051.4	403.8	207.6	122.2	85.3	76.7	75.4	74.0	75.4	75.4
50°	7073.6	4480.7	361.1	183.4	101.0	72.5	65.4	65.4	65.4	65.4	66.8
52.5°	8593.3	5325.2	332.7	159.2	82.4	61.2	55.4	55.4	56.9	56.9	58.3
55°	10286.4	6445.3	307.1	135.0	69.7	51.1	45.5	47.0	48.3	49.7	49.7
57.5°	12123.0	7686.4	285.7	110.9	59.7	41.2	38.4	39.8	41.2	44.1	44.1
60°	14339.2	9029.7	254.4	86.7	49.7	32.7	29.9	32.7	36.9	39.8	41.2
62.5°	16772.9	10328.9	214.6	68.2	41.2	25.6	24.1	29.9	35.5	38.4	39.8
65°	18436.1	10737.0	164.9	55.4	31.3	18.5	19.9	27.0	34.2	38.4	38.4
67°	17762.3	9734.8	135.0	47.0	25.6	14.2	18.5	27.0	34.2	36.9	38.4
67.5°	17294.6	9342.4	129.4	45.5	24.1	14.2	18.5	27.0	34.2	38.4	38.4
70°	14071.9	7018.2	108.0	34.2	19.9	12.8	15.7	25.6	32.7	36.9	36.9
72.5°	9777.5	4327.2	96.7	24.1	17.1	11.4	14.2	24.1	31.3	35.5	36.9
75°	4648.5	1566.5	82.4	18.5	15.7	9.9	12.8	24.1	31.3	35.5	35.5
77.5°	948.2	364.0	66.8	15.7	12.8	9.9	11.4	22.7	29.9	34.2	34.2
80°	311.3	140.8	49.7	14.2	12.8	9.9	11.4	21.3	29.9	32.7	34.2
82.5°	224.6	71.1	32.7	14.2	12.8	9.9	9.9	21.3	28.4	32.7	32.7
85°	172.0	49.7	21.3	14.2	12.8	9.9	9.9	19.9	27.0	31.3	31.3
87.5°	113.8	19.9	17.1	14.2	12.8	9.9	9.9	19.9	25.6	29.9	31.3
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)