

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: P193598

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193598
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-10-LED-E1-SL2-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA 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: 39821 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 558
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

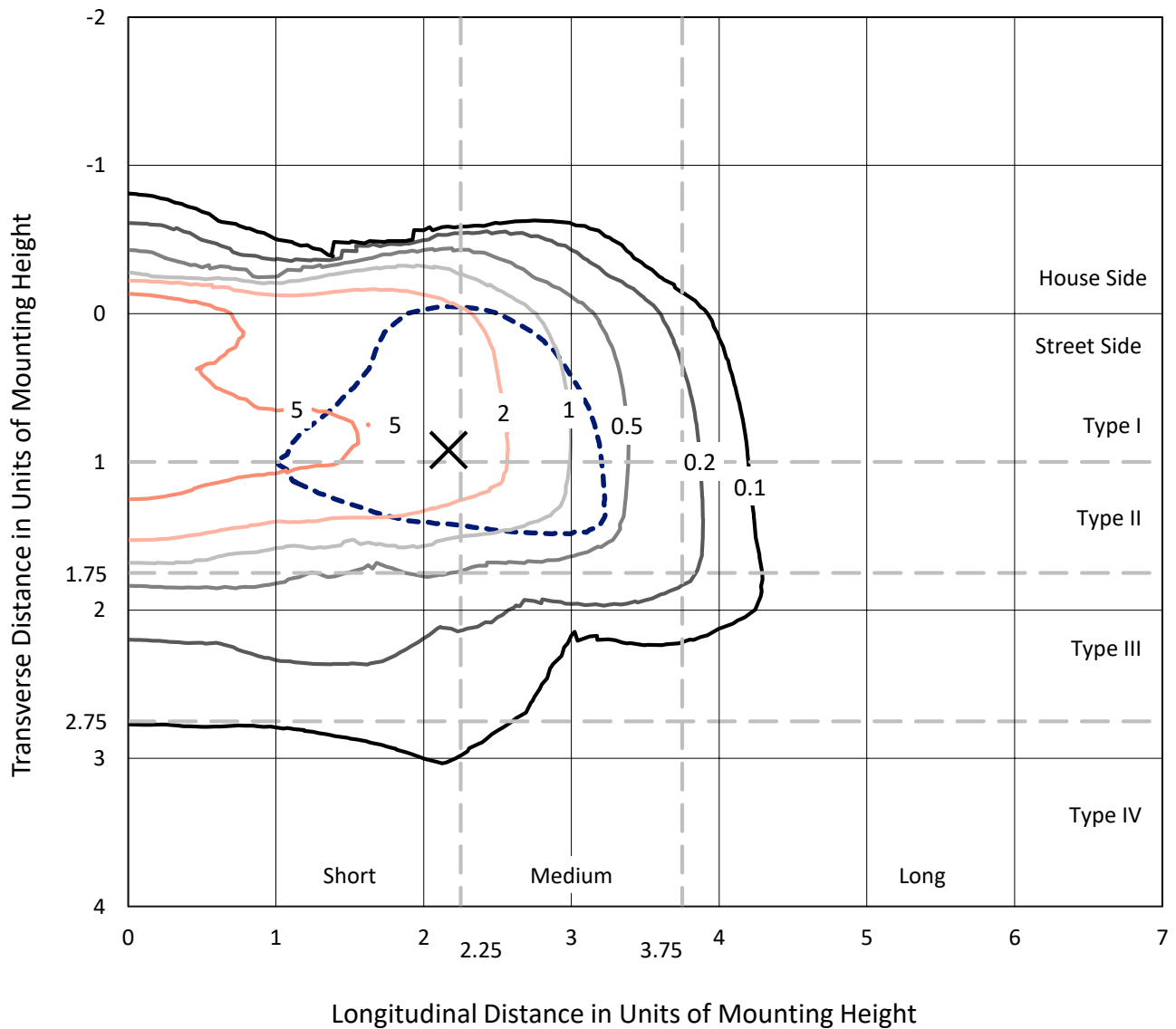


REPORT NUMBER: P193598

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-8030-HSS

Iso-Footcandle Lines of Horizontal Illumination

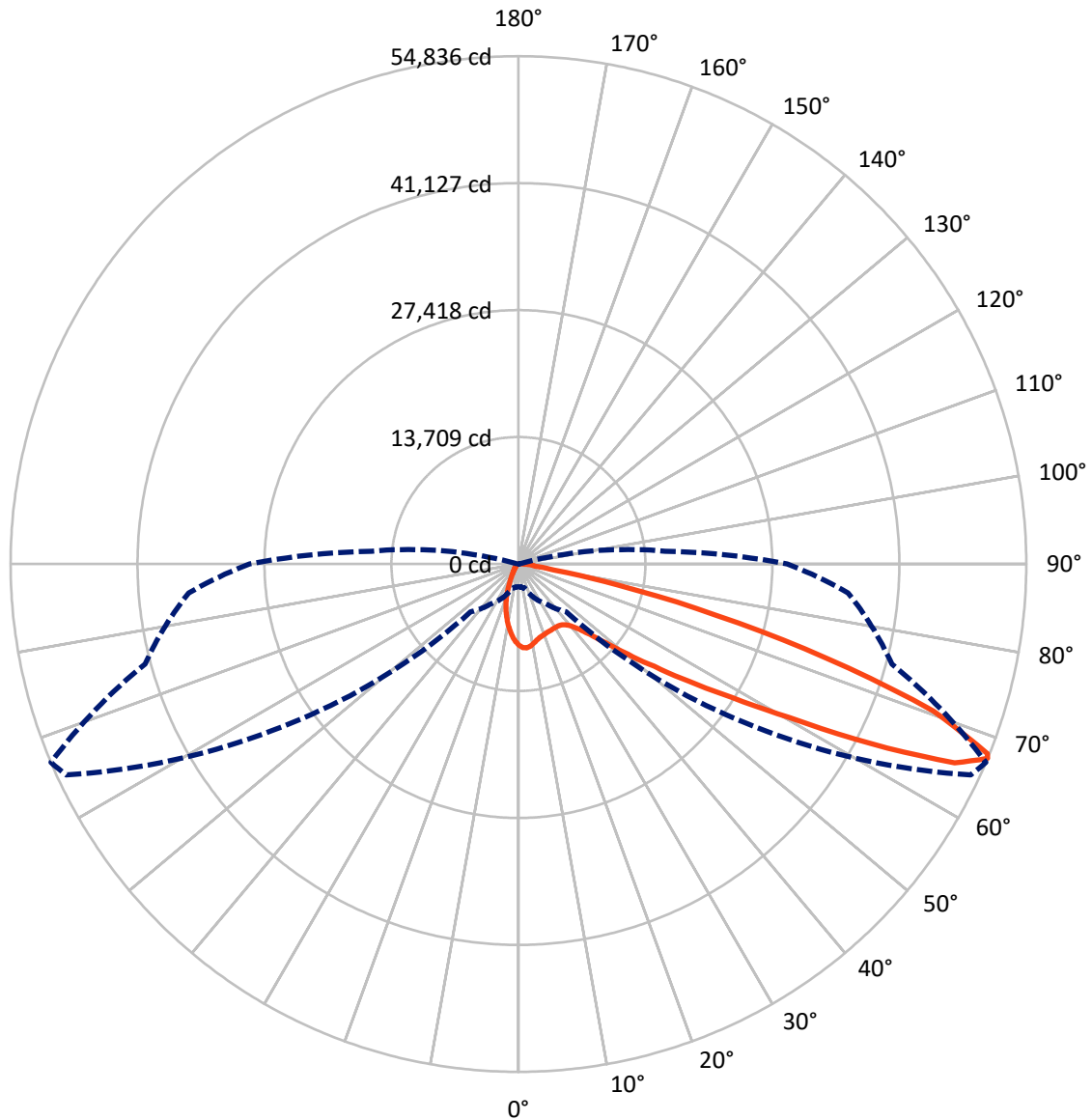
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193598
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-8030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193598

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-8030-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4134.6	0.0	4134.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	35686.4	0.0	35686.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	39821.0	0.0	39821.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.6	1.8
10°-20°	1520.9	3.8
20°-30°	2211.3	5.6
30°-40°	3449.6	8.7
40°-50°	6110.9	15.3
50°-60°	9669.8	24.3
60°-70°	11075.4	27.8
70°-80°	4594.0	11.5
80°-90°	474.5	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°	39821.0	100.0
0°-180°	39821.0	100.0



REPORT NUMBER: P193598

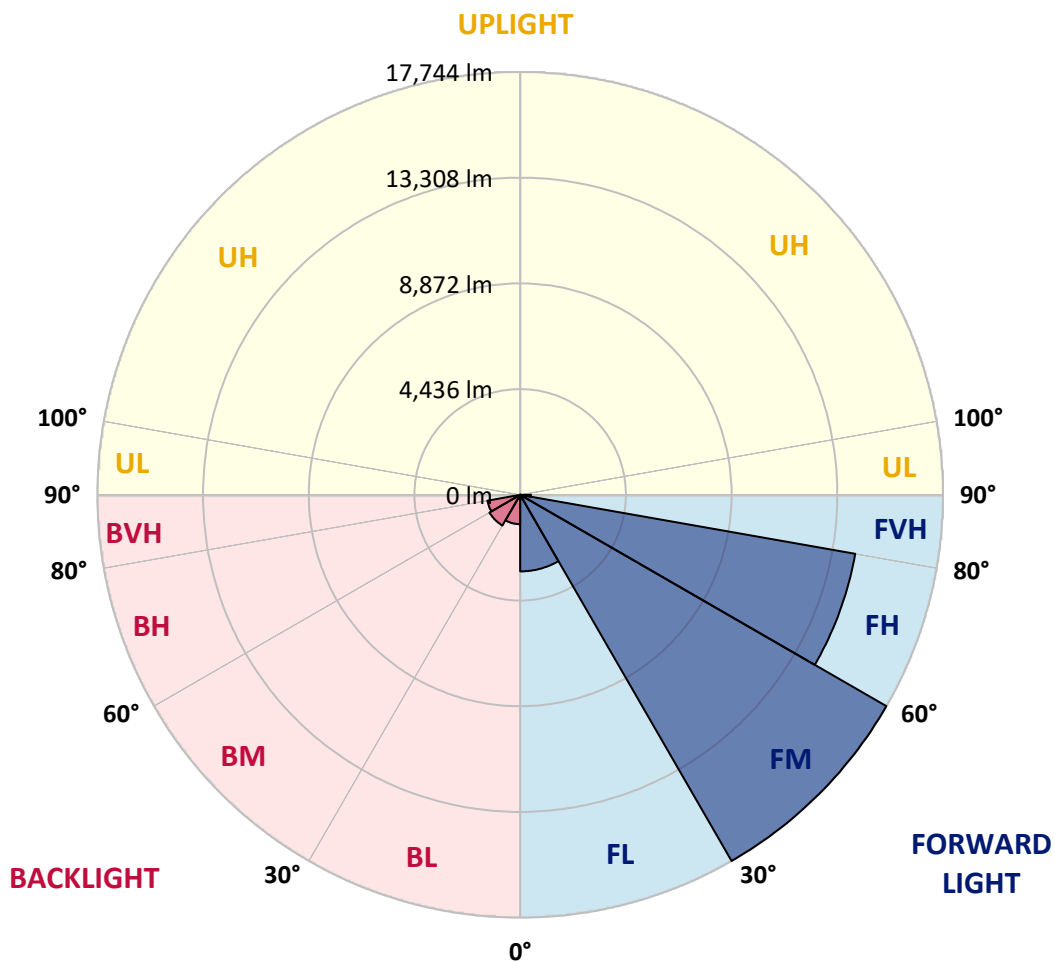
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-8030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3212.9	8.1			
FM (30°-60°)	17744.3	44.6			
FH (60°-80°)	14275.9	35.9			G5
FVH (80°-90°)	453.2	1.1			G3/500
BL (0°-30°)	1233.8	3.1	B3/2500		
BM (30°-60°)	1486.0	3.7	B2/2500		
BH (60°-80°)	1393.5	3.5	B3/2500		G3/2500
BVH (80°-90°)	21.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P193598

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-8030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0
2.5°	9079.3	9097.9	9095.6	9109.5	9142.0	9144.3	9111.8	9049.1	9035.2	8953.9	8812.2
5°	8373.2	8426.6	8459.2	8591.5	8740.2	8919.0	9053.8	9102.5	9095.6	9037.5	8823.8
7.5°	7567.2	7620.7	7657.8	7813.4	8010.9	8317.5	8668.2	8956.2	8981.8	9044.5	8814.5
10°	7030.7	7040.0	7091.1	7239.8	7446.5	7760.0	8178.1	8682.1	8758.8	8988.7	8791.3
12.5°	6589.4	6596.4	6663.7	6824.0	7044.6	7360.5	7799.5	8382.5	8501.0	8919.0	8786.6
15°	6275.8	6301.4	6361.8	6529.0	6763.6	7077.2	7527.8	8161.8	8303.5	8893.5	8828.5
17.5°	6171.3	6199.2	6217.8	6338.6	6552.2	6858.8	7321.0	8017.8	8178.1	8907.4	8909.7
20°	6280.5	6301.4	6259.6	6289.8	6422.2	6696.2	7146.8	7894.7	8085.2	8923.7	9014.3
22.5°	6687.0	6696.2	6582.4	6450.0	6426.8	6577.8	7009.8	7797.2	8001.6	8967.8	9137.4
25°	7383.8	7367.5	7181.7	6896.0	6626.6	6556.9	6928.5	7736.8	7959.8	9014.3	9265.1
27.5°	8224.6	8247.8	7992.3	7576.5	7063.2	6696.2	6916.9	7711.3	7941.2	9046.8	9376.6
30°	9246.5	9279.1	8986.4	8463.8	7727.5	7040.0	7023.7	7706.6	7929.6	9025.9	9385.9
32.5°	10289.4	10328.9	10099.0	9560.1	8614.8	7616.0	7265.3	7757.7	7952.8	8953.9	9332.5
35°	11381.1	11436.8	11283.5	10821.3	9817.9	8447.5	7690.3	7913.3	8062.0	8946.9	9279.1
37.5°	12888.5	12939.6	12651.6	12161.5	11274.2	9562.4	8373.2	8206.0	8319.8	9058.4	9293.0
40°	15139.1	15132.2	14388.9	13638.7	12874.5	10979.2	9332.5	8735.5	8793.6	9395.2	9464.9
42.5°	17591.9	17580.3	16481.6	15341.2	14651.4	12723.6	10593.7	9650.7	9611.2	10015.3	9910.8
45°	19482.5	19480.2	18583.7	17299.2	16790.6	14725.7	12224.2	10923.5	10863.1	11023.4	10733.0
47.5°	20288.5	20302.4	19851.8	18948.3	19162.0	17433.9	14279.8	12767.7	12677.1	12612.1	12170.8
50°	19661.4	19689.2	19726.4	19549.9	20901.7	21073.6	17036.8	15366.8	15322.6	15032.3	14342.5
52.5°	17612.8	17754.5	18191.1	18750.9	21505.6	24566.8	21359.2	18595.3	18358.4	18049.4	17289.9
55°	14161.3	14316.9	15146.1	16504.9	20606.7	26861.6	27416.8	22757.5	22362.6	21440.5	20344.2
57.5°	9372.0	9613.5	10816.7	12544.7	17996.0	27230.9	33460.3	28534.0	27158.9	24634.2	23398.5
60°	5163.3	5395.6	6700.9	8266.4	12997.6	25405.3	37525.0	36054.7	33625.2	28204.1	27107.8
62.5°	3179.7	3305.2	4269.1	5725.4	7794.9	20051.6	38365.8	45505.7	42692.9	32800.7	31588.3
65°	2531.7	2585.1	3056.6	4680.2	5588.3	11926.9	35650.6	52710.6	51772.2	38365.8	35599.5
67°	2457.4	2478.3	2701.3	4018.2	5267.8	7311.8	29867.2	53883.5	54835.8	41733.7	35724.9
67.5°	2473.6	2496.9	2708.2	3834.7	5258.5	6719.5	27874.3	53421.3	54624.5	42000.8	35169.8
70°	2385.4	2457.4	3100.8	3832.4	5000.7	5583.7	16693.0	46286.1	47538.0	39025.4	29841.6
72.5°	845.5	850.1	1340.2	3100.8	5437.4	5644.1	8382.5	33931.8	34858.6	29853.2	21514.9
75°	501.7	427.4	446.0	882.6	5195.8	5481.5	4835.8	21682.1	22028.2	17106.4	10895.6
77.5°	346.1	301.9	311.2	390.2	1978.9	5404.8	3841.7	11306.7	10937.4	5999.4	2320.3
80°	197.4	174.2	185.8	341.4	720.0	5042.5	3623.4	4584.9	3909.0	1017.3	641.1
82.5°	104.5	88.3	106.8	281.0	501.7	3142.6	3630.3	2215.8	1755.9	343.8	436.7
85°	37.2	30.2	51.1	192.8	334.5	963.9	3365.5	1862.8	1463.3	167.2	332.1
87.5°	7.0	7.0	20.9	79.0	134.7	295.0	1990.5	1105.6	740.9	99.9	227.6
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: P193598

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-8030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0	8782.0
2.5°	8754.1	8654.3	8519.5	8354.6	8159.5	7987.6	7859.9	7727.5	7699.6	7653.2	7646.2
5°	8696.1	8524.2	8189.7	7806.5	7397.7	7028.4	6728.8	6461.7	6343.2	6241.0	6229.4
7.5°	8610.1	8352.3	7783.3	7165.4	6526.7	5946.0	5453.6	5105.2	4784.7	4631.4	4608.2
10°	8510.2	8140.9	7325.7	6468.6	5586.0	4766.1	4034.5	3421.3	3049.7	2829.0	2801.1
12.5°	8417.3	7934.2	6858.8	5746.3	4573.3	3477.0	2536.4	1951.0	1560.8	1402.9	1384.3
15°	8373.2	7767.0	6422.2	5007.7	3514.2	2213.5	1386.6	1073.1	945.3	908.2	905.8
17.5°	8368.6	7625.3	5994.8	4243.5	2462.0	1286.8	903.5	824.5	799.0	789.7	789.7
20°	8366.2	7490.6	5567.4	3451.5	1563.2	857.1	752.5	734.0	715.4	703.8	703.8
22.5°	8391.8	7369.8	5121.5	2643.2	984.8	694.5	662.0	643.4	620.2	603.9	601.6
25°	8417.3	7276.9	4666.2	1881.4	713.1	603.9	571.4	545.8	513.3	492.4	490.1
27.5°	8422.0	7160.8	4178.5	1258.9	596.9	527.2	485.4	446.0	408.8	387.9	385.6
30°	8352.3	6965.7	3637.3	850.1	527.2	457.6	401.8	360.0	325.2	308.9	308.9
32.5°	8215.3	6724.1	3042.7	641.1	469.2	392.5	332.1	292.7	269.4	262.5	260.1
35°	8092.2	6464.0	2431.8	543.5	420.4	332.1	271.8	246.2	232.3	229.9	227.6
37.5°	8020.2	6254.9	1858.1	492.4	373.9	278.7	229.9	211.4	204.4	199.7	202.1
40°	8075.9	6080.7	1372.7	450.6	327.5	232.3	195.1	185.8	178.8	176.5	176.5
42.5°	8319.8	6050.5	1019.7	413.4	283.4	192.8	169.6	162.6	157.9	155.6	157.9
45°	8960.8	6236.4	792.0	378.6	239.2	162.6	144.0	141.7	139.4	139.4	139.4
47.5°	9924.8	6619.6	659.6	339.1	199.7	139.4	125.4	123.1	120.8	123.1	123.1
50°	11557.6	7321.0	590.0	299.6	164.9	118.5	106.8	106.8	106.8	106.8	109.2
52.5°	14040.5	8700.7	543.5	260.1	134.7	99.9	90.6	90.6	92.9	92.9	95.2
55°	16806.8	10531.0	501.7	220.7	113.8	83.6	74.3	76.6	79.0	81.3	81.3
57.5°	19807.7	12558.7	466.9	181.2	97.6	67.4	62.7	65.0	67.4	72.0	72.0
60°	23428.7	14753.6	415.8	141.7	81.3	53.4	48.8	53.4	60.4	65.0	67.4
62.5°	27405.1	16876.5	350.7	111.5	67.4	41.8	39.5	48.8	58.1	62.7	65.0
65°	30122.7	17543.1	269.4	90.6	51.1	30.2	32.5	44.1	55.7	62.7	62.7
67°	29021.7	15905.6	220.7	76.6	41.8	23.2	30.2	44.1	55.7	60.4	62.7
67.5°	28257.6	15264.6	211.4	74.3	39.5	23.2	30.2	44.1	55.7	62.7	62.7
70°	22992.1	11467.0	176.5	55.7	32.5	20.9	25.5	41.8	53.4	60.4	60.4
72.5°	15975.3	7070.2	157.9	39.5	27.9	18.6	23.2	39.5	51.1	58.1	60.4
75°	7595.1	2559.6	134.7	30.2	25.5	16.3	20.9	39.5	51.1	58.1	58.1
77.5°	1549.2	594.6	109.2	25.5	20.9	16.3	18.6	37.2	48.8	55.7	55.7
80°	508.7	229.9	81.3	23.2	20.9	16.3	18.6	34.8	48.8	53.4	55.7
82.5°	367.0	116.1	53.4	23.2	20.9	16.3	16.3	34.8	46.5	53.4	53.4
85°	281.0	81.3	34.8	23.2	20.9	16.3	16.3	32.5	44.1	51.1	51.1
87.5°	185.8	32.5	27.9	23.2	20.9	16.3	16.3	32.5	41.8	48.8	51.1
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)