

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: P191054

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191054
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 30164.8 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 333
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

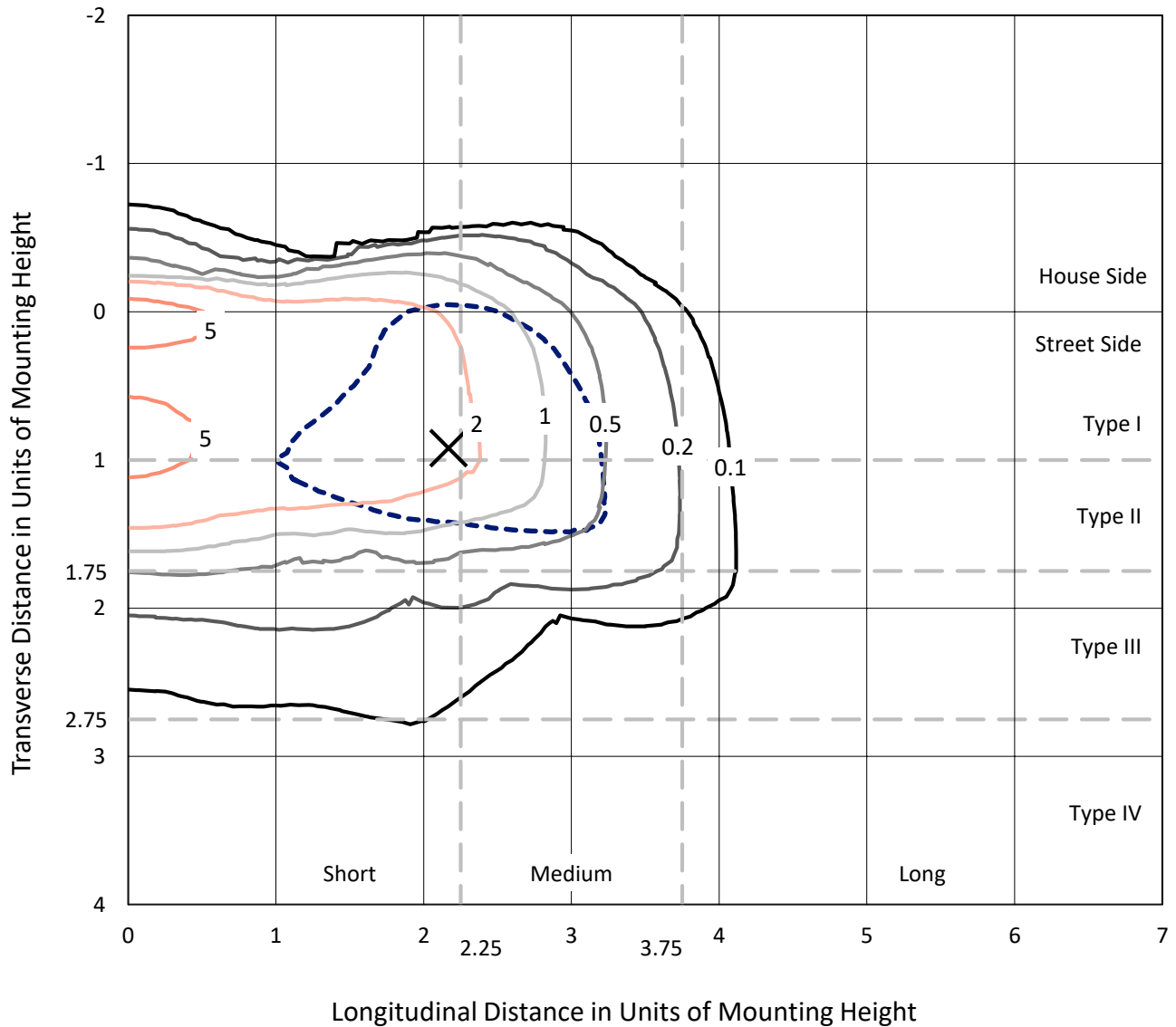


REPORT NUMBER: P191054

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

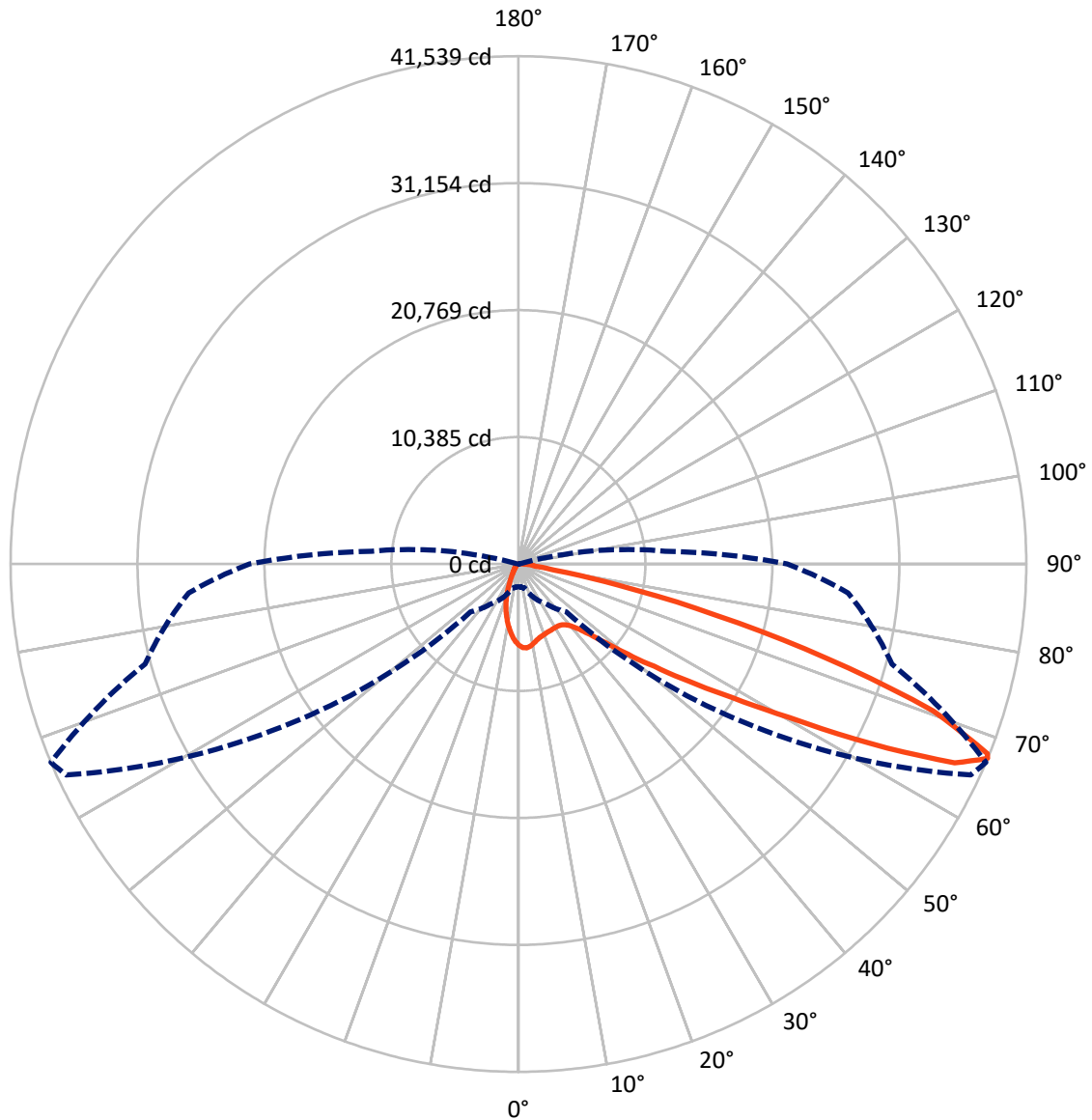


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191054

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

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191054

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3132.0	0.0	3132.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27032.8	0.0	27032.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	30164.8	0.0	30164.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.3	1.8
10°-20°	1152.1	3.8
20°-30°	1675.0	5.6
30°-40°	2613.1	8.7
40°-50°	4629.0	15.3
50°-60°	7325.0	24.3
60°-70°	8389.7	27.8
70°-80°	3480.0	11.5
80°-90°	359.5	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°	30164.8	100.0
0°-180°	30164.8	100.0

Coefficient of Utilization



REPORT NUMBER: P191054

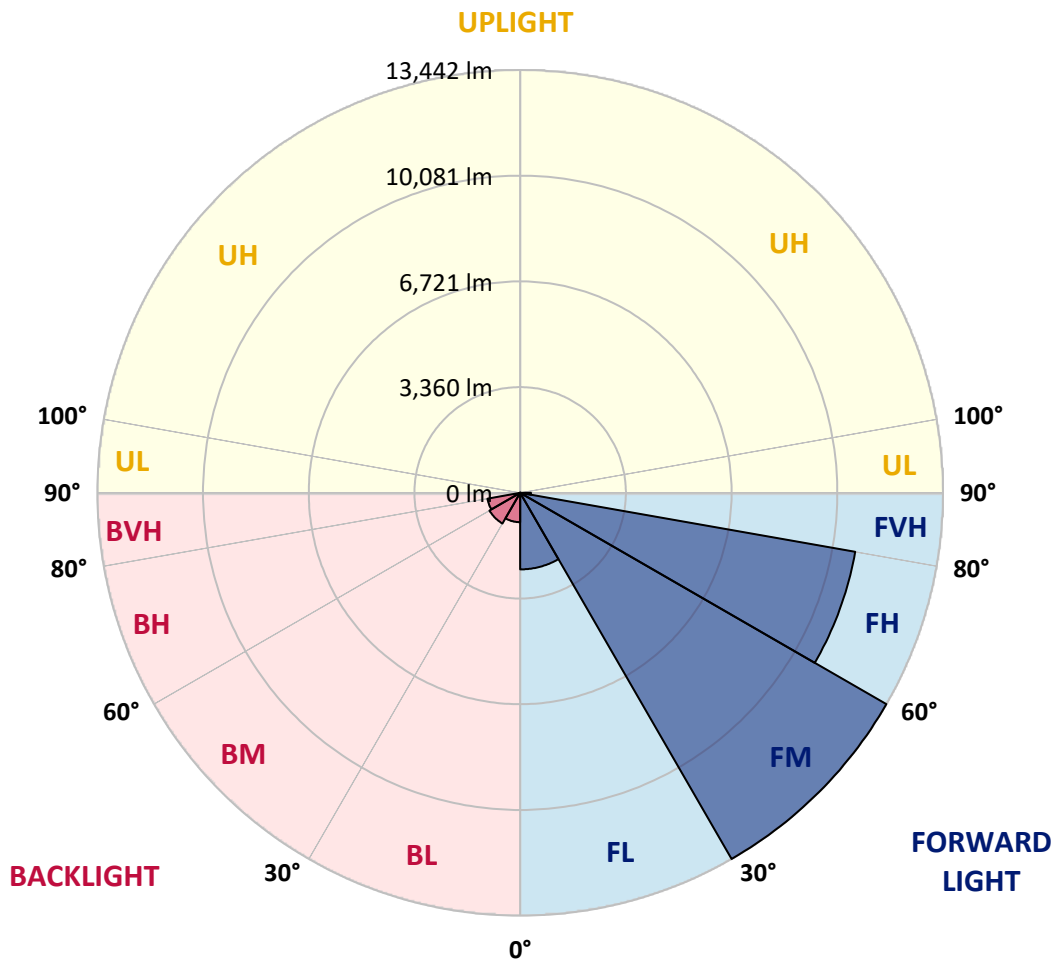
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2433.8	8.1			
FM (30°-60°)	13441.5	44.6			
FH (60°-80°)	10814.2	35.9			G4/12000
FVH (80°-90°)	343.3	1.1			G3/500
BL (0°-30°)	934.6	3.1	B2/1000		
BM (30°-60°)	1125.6	3.7	B2/2500		
BH (60°-80°)	1055.6	3.5	B3/2500		G3/2500
BVH (80°-90°)	16.2	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-G4

Type II Short





REPORT NUMBER: P191054

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5
2.5°	6877.6	6891.7	6890.0	6900.5	6925.2	6926.9	6902.3	6854.8	6844.3	6782.7	6675.4
5°	6342.8	6383.2	6407.9	6508.2	6620.7	6756.3	6858.3	6895.2	6890.0	6846.0	6684.2
7.5°	5732.3	5772.7	5800.8	5918.8	6068.3	6300.6	6566.2	6784.4	6803.7	6851.2	6677.1
10°	5325.8	5332.8	5371.6	5484.1	5640.8	5878.3	6195.0	6576.8	6634.9	6809.1	6659.5
12.5°	4991.5	4996.8	5047.9	5169.3	5336.4	5575.7	5908.2	6349.9	6439.6	6756.3	6655.9
15°	4754.0	4773.4	4819.1	4945.8	5123.4	5361.0	5702.3	6182.7	6290.0	6736.9	6687.6
17.5°	4674.9	4696.0	4710.1	4801.5	4963.4	5195.7	5545.7	6073.6	6195.0	6747.5	6749.2
20°	4757.5	4773.4	4741.7	4764.6	4864.8	5072.5	5413.8	5980.4	6124.6	6759.8	6828.4
22.5°	5065.4	5072.5	4986.3	4885.9	4868.3	4982.7	5310.0	5906.4	6061.3	6793.2	6921.6
25°	5593.3	5580.9	5440.2	5223.8	5019.7	4966.9	5248.5	5860.7	6029.6	6828.4	7018.4
27.5°	6230.2	6247.8	6054.2	5739.3	5350.4	5072.5	5239.7	5841.4	6015.6	6853.1	7102.9
30°	7004.3	7029.0	6807.3	6411.4	5853.6	5332.8	5320.6	5837.8	6006.8	6837.2	7109.9
32.5°	7794.4	7824.2	7650.0	7241.9	6525.8	5769.2	5503.6	5876.5	6024.4	6782.7	7069.4
35°	8621.2	8663.5	8547.4	8197.2	7437.2	6399.1	5825.5	5994.4	6107.0	6777.4	7029.0
37.5°	9763.1	9801.8	9583.7	9212.4	8540.3	7243.6	6342.8	6216.1	6302.3	6861.9	7039.5
40°	11468.0	11462.8	10899.7	10331.4	9752.6	8316.9	7069.4	6617.3	6661.3	7117.0	7169.8
42.5°	13326.0	13317.2	12485.0	11621.1	11098.5	9638.2	8024.8	7310.5	7280.5	7586.7	7507.5
45°	14758.2	14756.5	14077.3	13104.3	12719.0	11154.9	9260.0	8274.6	8228.9	8350.3	8130.4
47.5°	15368.7	15379.2	15038.0	14353.5	14515.4	13206.4	10817.1	9671.7	9603.1	9553.7	9219.4
50°	14893.7	14914.8	14943.0	14809.3	15833.2	15963.5	12905.5	11640.5	11607.0	11387.1	10864.6
52.5°	13341.8	13449.1	13780.0	14204.0	16290.7	18609.6	16179.8	14086.1	13906.6	13672.7	13097.2
55°	10727.3	10845.2	11473.3	12502.6	15609.7	20347.9	20768.5	17239.0	16939.9	16241.4	15411.0
57.5°	7099.4	7282.3	8193.7	9502.7	13632.1	20627.7	25346.5	21614.7	20573.2	18660.7	17724.6
60°	3911.3	4087.2	5076.0	6261.9	9845.8	19244.8	28425.6	27311.8	25471.5	21364.9	20534.4
62.5°	2408.6	2503.7	3233.9	4337.0	5904.7	15189.3	29062.4	34471.0	32340.3	24846.9	23928.4
65°	1917.8	1958.2	2315.4	3545.2	4233.2	9034.7	27005.7	39928.7	39218.0	29062.4	26966.9
67°	1861.5	1877.3	2046.2	3043.8	3990.4	5538.8	22624.6	40817.3	41538.7	31613.7	27062.0
67.5°	1873.8	1891.4	2051.5	2904.9	3983.4	5090.1	21115.0	40467.1	41378.6	31816.0	26641.4
70°	1806.9	1861.5	2348.9	2903.0	3788.1	4229.7	12645.1	35062.2	36010.5	29562.2	22605.3
72.5°	640.5	643.9	1015.2	2348.9	4118.8	4275.4	6349.9	25703.7	26405.7	22614.1	16297.7
75°	380.0	323.8	337.8	668.6	3935.9	4152.3	3663.2	16424.4	16686.6	12958.3	8253.6
77.5°	262.2	228.7	235.8	295.6	1499.0	4094.3	2910.1	8565.0	8285.2	4544.7	1757.6
80°	149.6	132.0	140.8	258.6	545.4	3819.7	2744.7	3473.1	2961.1	770.6	485.6
82.5°	79.2	66.9	80.9	212.9	380.0	2380.5	2750.0	1678.5	1330.1	260.4	330.8
85°	28.1	22.9	38.7	146.1	253.4	730.2	2549.4	1411.1	1108.5	126.6	251.6
87.5°	5.3	5.3	15.9	59.8	102.1	223.4	1507.8	837.5	561.3	75.7	172.5
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: P191054

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5	6652.5
2.5°	6631.4	6555.7	6453.6	6328.7	6180.9	6050.8	5954.0	5853.6	5832.6	5797.4	5792.0
5°	6587.4	6457.2	6203.8	5913.5	5603.8	5324.0	5097.1	4894.7	4805.0	4727.6	4718.8
7.5°	6522.2	6327.0	5895.9	5427.9	4944.0	4504.2	4131.2	3867.3	3624.4	3508.3	3490.7
10°	6446.6	6166.9	5549.3	4900.0	4231.4	3610.4	3056.2	2591.6	2310.1	2143.0	2121.9
12.5°	6376.3	6010.2	5195.7	4352.9	3464.3	2633.9	1921.3	1478.0	1182.3	1062.7	1048.6
15°	6342.8	5883.6	4864.8	3793.3	2662.0	1676.7	1050.4	812.8	716.1	687.9	686.2
17.5°	6339.2	5776.2	4541.1	3214.5	1865.0	974.8	684.5	624.6	605.3	598.2	598.2
20°	6337.5	5674.2	4217.4	2614.6	1184.1	649.3	570.1	556.0	541.9	533.1	533.1
22.5°	6356.8	5582.8	3879.5	2002.2	746.0	526.1	501.5	487.3	469.7	457.5	455.7
25°	6376.3	5512.4	3534.7	1425.2	540.1	457.5	432.8	413.5	388.8	373.0	371.2
27.5°	6379.7	5424.4	3165.2	953.6	452.1	399.4	367.8	337.8	309.6	293.8	292.1
30°	6327.0	5276.6	2755.3	643.9	399.4	346.6	304.4	272.7	246.3	234.1	234.1
32.5°	6223.1	5093.6	2304.9	485.6	355.4	297.4	251.6	221.7	204.1	198.9	197.0
35°	6129.9	4896.6	1842.1	411.7	318.4	251.6	205.8	186.5	175.9	174.2	172.5
37.5°	6075.3	4738.2	1407.6	373.0	283.3	211.1	174.2	160.1	154.9	151.3	153.0
40°	6117.6	4606.2	1039.8	341.4	248.1	175.9	147.8	140.8	135.4	133.7	133.7
42.5°	6302.3	4583.3	772.4	313.2	214.6	146.1	128.5	123.2	119.7	117.8	119.7
45°	6787.9	4724.1	600.0	286.8	181.3	123.2	109.0	107.3	105.6	105.6	105.6
47.5°	7518.1	5014.4	499.7	256.9	151.3	105.6	95.0	93.3	91.5	93.3	93.3
50°	8755.0	5545.7	446.9	227.0	124.9	89.7	80.9	80.9	80.9	80.9	82.7
52.5°	10635.8	6590.9	411.7	197.0	102.1	75.7	68.6	68.6	70.4	70.4	72.1
55°	12731.3	7977.3	380.0	167.2	86.2	63.3	56.3	58.1	59.8	61.6	61.6
57.5°	15004.5	9513.3	353.6	137.3	73.9	51.0	47.5	49.3	51.0	54.5	54.5
60°	17747.5	11175.9	315.0	107.3	61.6	40.5	36.9	40.5	45.7	49.3	51.0
62.5°	20759.7	12784.1	265.7	84.5	51.0	31.7	29.9	36.9	44.0	47.5	49.3
65°	22818.1	13289.1	204.1	68.6	38.7	22.9	24.7	33.5	42.2	47.5	47.5
67°	21984.2	12048.6	167.2	58.1	31.7	17.6	22.9	33.5	42.2	45.7	47.5
67.5°	21405.3	11563.0	160.1	56.3	29.9	17.6	22.9	33.5	42.2	47.5	47.5
70°	17416.7	8686.4	133.7	42.2	24.7	15.9	19.3	31.7	40.5	45.7	45.7
72.5°	12101.4	5355.8	119.7	29.9	21.1	14.1	17.6	29.9	38.7	44.0	45.7
75°	5753.4	1938.9	102.1	22.9	19.3	12.3	15.9	29.9	38.7	44.0	44.0
77.5°	1173.5	450.4	82.7	19.3	15.9	12.3	14.1	28.1	36.9	42.2	42.2
80°	385.3	174.2	61.6	17.6	15.9	12.3	14.1	26.4	36.9	40.5	42.2
82.5°	278.0	88.0	40.5	17.6	15.9	12.3	12.3	26.4	35.2	40.5	40.5
85°	212.9	61.6	26.4	17.6	15.9	12.3	12.3	24.7	33.5	38.7	38.7
87.5°	140.8	24.7	21.1	17.6	15.9	12.3	12.3	24.7	31.7	36.9	38.7
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)