

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: P191038

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191038
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-SL2-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA 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: 32890.9 lumens
Efficiency: N/A
Efficacy: 101.8 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 - G4

Input Watts (W): 323
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

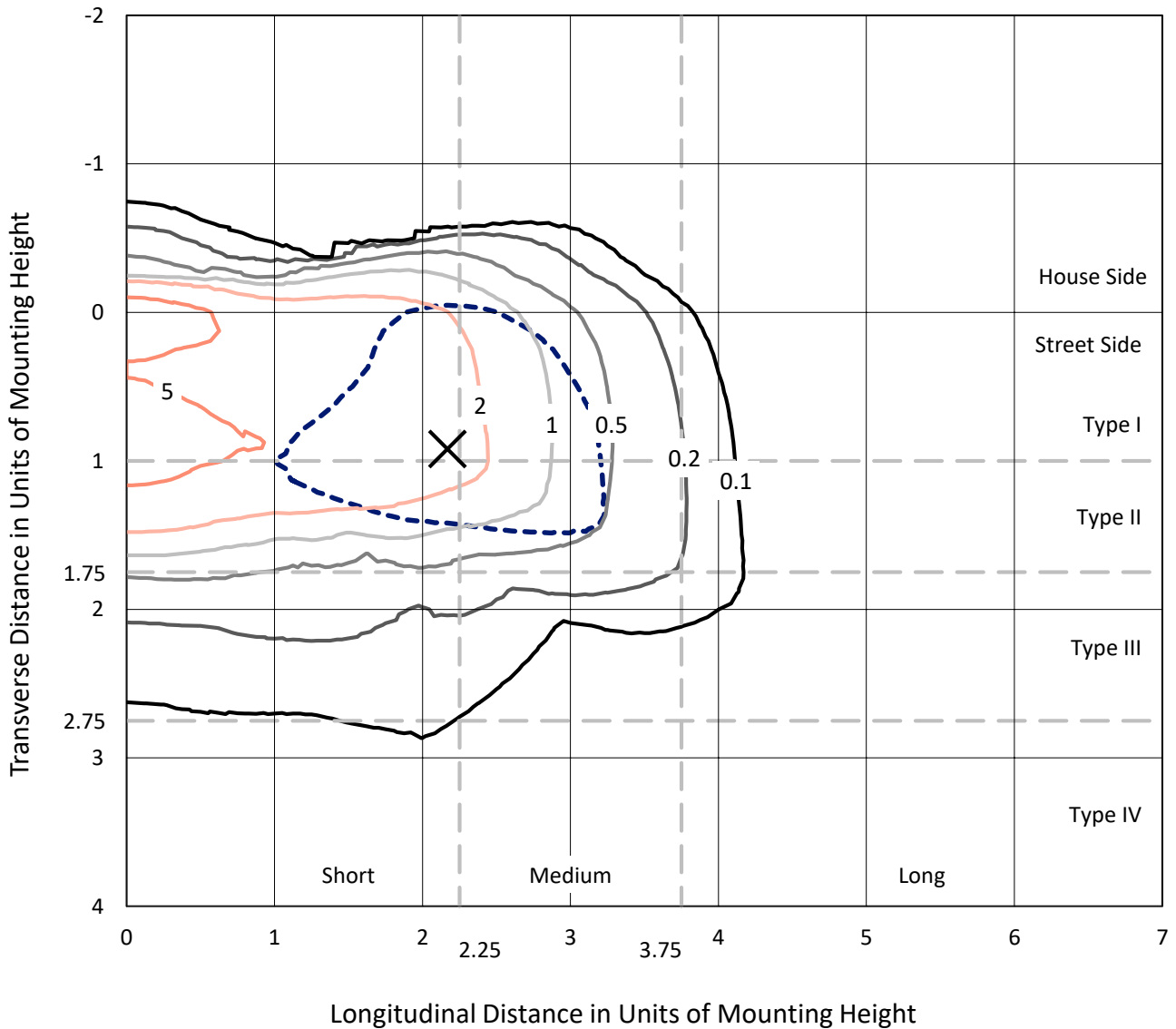


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Iso-Footcandle Lines of Horizontal Illumination

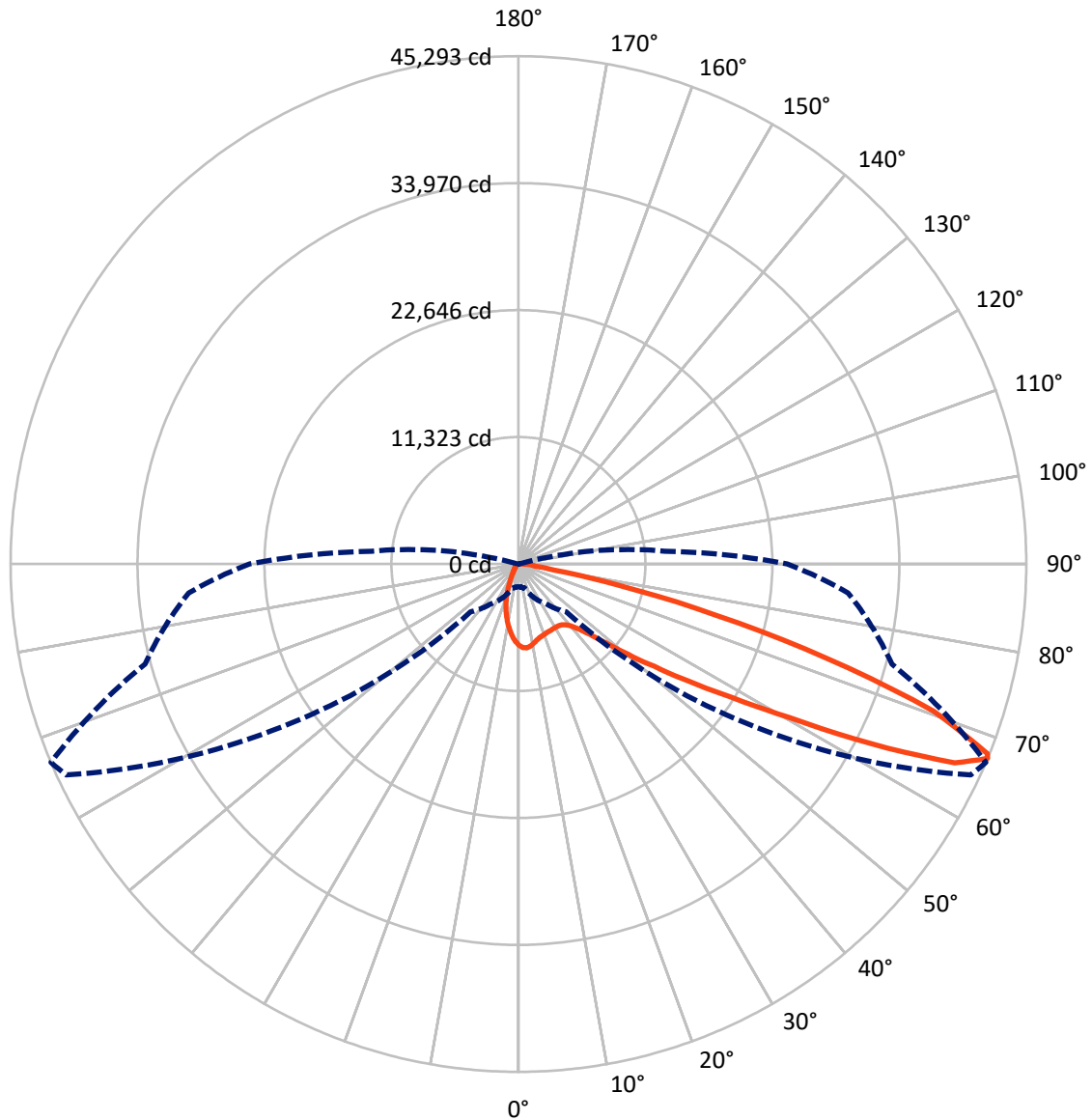
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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	3415.1	0.0	3415.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	29475.9	0.0	29475.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	32890.9	0.0	32890.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.2	1.8
10°-20°	1256.2	3.8
20°-30°	1826.4	5.6
30°-40°	2849.3	8.7
40°-50°	5047.4	15.3
50°-60°	7987.0	24.3
60°-70°	9148.0	27.8
70°-80°	3794.5	11.5
80°-90°	392.0	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°	32890.9	100.0
0°-180°	32890.9	100.0

Coefficient of Utilization



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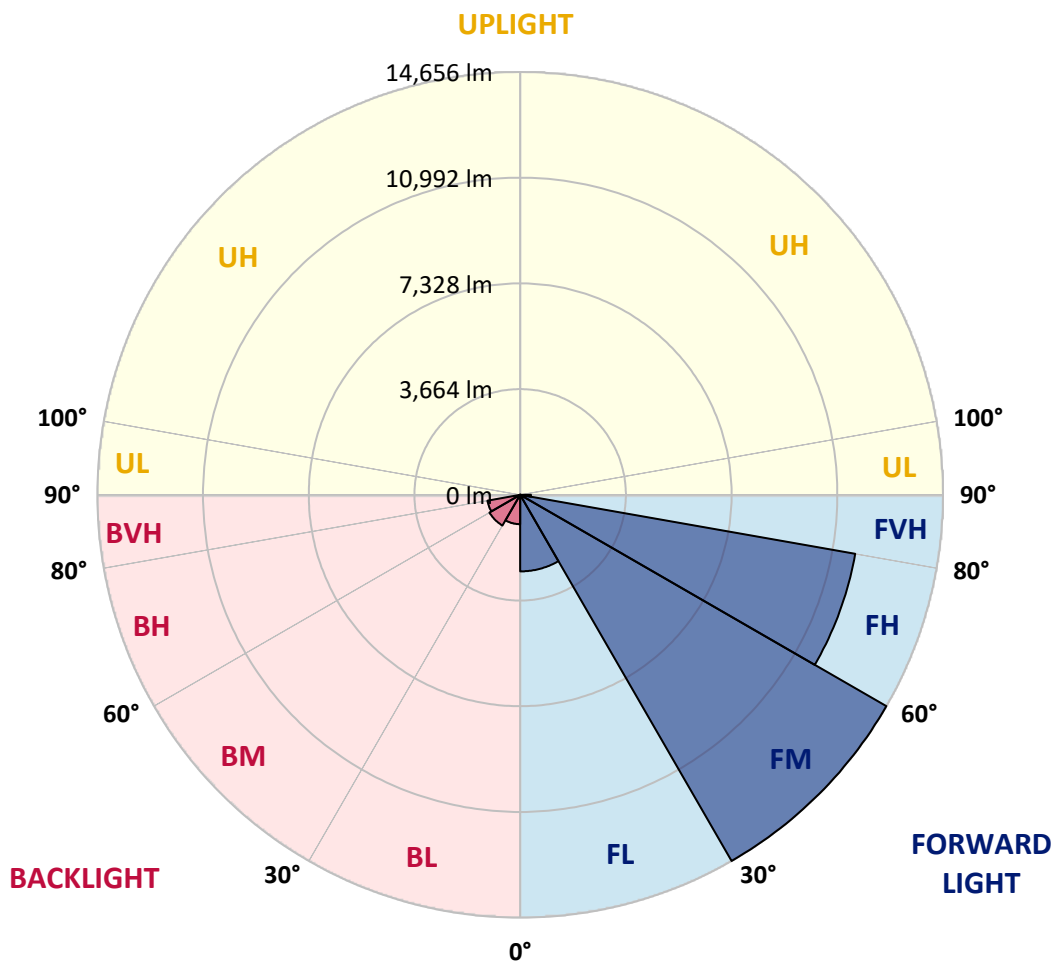
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2653.8	8.1			
FM (30°-60°)	14656.3	44.6			
FH (60°-80°)	11791.5	35.9			G4/12000
FVH (80°-90°)	374.3	1.1			G3/500
BL (0°-30°)	1019.1	3.1	B3/2500		
BM (30°-60°)	1227.4	3.7	B2/2500		
BH (60°-80°)	1151.0	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6
2.5°	7499.3	7514.6	7512.7	7524.2	7551.0	7553.0	7526.1	7474.3	7462.7	7395.6	7278.6
5°	6916.1	6960.2	6987.0	7096.3	7219.2	7366.9	7478.1	7518.4	7512.7	7464.7	7288.2
7.5°	6250.3	6294.4	6325.1	6453.7	6616.8	6869.9	7159.6	7397.6	7418.6	7470.4	7280.5
10°	5807.2	5814.9	5857.0	5979.9	6150.6	6409.5	6754.9	7171.2	7234.5	7424.4	7261.3
12.5°	5442.6	5448.4	5504.1	5636.5	5818.6	6079.6	6442.1	6923.7	7021.5	7366.9	7257.5
15°	5183.7	5204.8	5254.6	5392.8	5586.5	5845.6	6217.7	6741.5	6858.5	7345.7	7292.0
17.5°	5097.4	5120.4	5135.7	5235.5	5411.9	5665.2	6047.0	6622.5	6754.9	7357.3	7359.2
20°	5187.5	5204.8	5170.2	5195.2	5304.5	5530.9	5903.0	6520.8	6678.1	7370.7	7445.5
22.5°	5523.2	5530.9	5436.9	5327.5	5308.4	5433.1	5789.9	6440.3	6609.1	7407.2	7547.2
25°	6098.7	6085.3	5931.9	5695.9	5473.3	5415.8	5722.7	6390.4	6574.5	7445.5	7652.7
27.5°	6793.2	6812.4	6601.4	6258.0	5834.0	5530.9	5713.2	6369.3	6559.2	7472.3	7744.8
30°	7637.4	7664.3	7422.5	6990.8	6382.7	5814.9	5801.4	6365.4	6549.5	7455.1	7752.4
32.5°	8498.8	8531.3	8341.4	7896.4	7115.5	6290.6	6000.9	6407.7	6568.8	7395.6	7708.3
35°	9400.4	9446.4	9319.8	8938.0	8109.3	6977.4	6352.0	6536.1	6658.9	7389.9	7664.3
37.5°	10645.4	10687.7	10449.9	10045.0	9312.1	7898.3	6916.1	6777.9	6871.9	7482.0	7675.7
40°	12504.4	12498.7	11884.8	11265.1	10634.0	9068.6	7708.3	7215.3	7263.3	7760.1	7817.7
42.5°	14530.4	14520.8	13613.3	12671.4	12101.6	10509.3	8750.0	7971.1	7938.5	8272.4	8186.1
45°	16091.9	16090.1	15349.6	14288.7	13868.5	12163.0	10096.8	9022.5	8972.6	9105.0	8865.2
47.5°	16757.7	16769.2	16397.0	15650.7	15827.2	14399.9	11794.6	10545.7	10470.9	10417.2	10052.6
50°	16239.7	16262.7	16293.5	16147.6	17264.1	17406.1	14071.8	12692.5	12656.0	12416.3	11846.5
52.5°	14547.6	14664.6	15025.3	15487.7	17762.9	20291.5	17642.1	15359.1	15163.4	14908.3	14280.9
55°	11696.8	11825.3	12510.2	13632.6	17020.5	22186.9	22645.4	18797.0	18470.8	17709.2	16803.7
57.5°	7741.0	7940.5	8934.2	10361.6	14864.2	22491.9	27637.3	23568.2	22432.5	20347.1	19326.5
60°	4264.7	4456.6	5534.8	6827.8	10735.7	20984.0	30994.5	29780.1	27773.4	23295.8	22390.2
62.5°	2626.3	2729.9	3526.1	4729.0	6438.4	16562.0	31689.0	37586.3	35263.1	27092.3	26091.0
65°	2091.1	2135.2	2524.6	3865.7	4615.8	9851.2	29446.4	43537.3	42762.3	31689.0	29404.1
67°	2029.7	2047.0	2231.2	3319.0	4351.0	6039.3	24669.4	44506.1	45292.7	34470.8	29507.7
67.5°	2043.1	2062.4	2236.9	3167.4	4343.3	5550.1	23023.3	44124.4	45118.2	34691.3	29049.2
70°	1970.2	2029.7	2561.2	3165.4	4130.5	4612.0	13787.9	38230.9	39264.9	32233.8	24648.3
72.5°	698.3	702.2	1106.9	2561.2	4491.1	4661.8	6923.7	28026.7	28792.1	24657.8	17770.6
75°	414.4	353.0	368.4	729.1	4291.6	4527.6	3994.2	17908.7	18194.6	14129.4	8999.4
77.5°	285.8	249.4	257.1	322.3	1634.5	4464.3	3173.1	9339.0	9034.0	4955.4	1916.5
80°	163.1	143.9	153.4	282.0	594.7	4164.9	2992.7	3787.1	3228.7	840.3	529.5
82.5°	86.3	72.9	88.3	232.1	414.4	2595.6	2998.6	1830.2	1450.3	284.0	360.7
85°	30.7	25.0	42.2	159.3	276.3	796.2	2779.9	1538.6	1208.6	138.1	274.4
87.5°	5.7	5.7	17.3	65.3	111.3	243.7	1644.1	913.2	612.0	82.4	188.0
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°	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6	7253.6
2.5°	7230.6	7148.2	7036.9	6900.6	6739.5	6597.5	6492.1	6382.7	6359.7	6321.3	6315.5
5°	7182.6	7040.8	6764.5	6448.0	6110.3	5805.2	5557.8	5337.1	5239.2	5154.9	5145.2
7.5°	7111.7	6898.8	6428.7	5918.4	5390.8	4911.2	4504.6	4216.8	3952.0	3825.4	3806.2
10°	7029.2	6724.2	6050.8	5342.9	4613.9	3936.6	3332.4	2825.9	2518.9	2336.6	2313.6
12.5°	6952.5	6553.4	5665.2	4746.3	3777.5	2871.9	2094.9	1611.5	1289.2	1158.7	1143.4
15°	6916.1	6415.3	5304.5	4136.2	2902.6	1828.3	1145.3	886.3	780.8	750.1	748.2
17.5°	6912.2	6298.3	4951.5	3505.0	2033.5	1062.8	746.2	681.1	659.9	652.2	652.2
20°	6910.2	6187.0	4598.6	2850.9	1291.2	707.9	621.5	606.2	590.9	581.2	581.2
22.5°	6931.4	6087.3	4230.2	2183.2	813.5	573.6	546.8	531.4	512.2	498.8	496.8
25°	6952.5	6010.6	3854.2	1554.0	589.0	498.8	472.0	450.8	424.0	406.7	404.8
27.5°	6956.3	5914.6	3451.3	1039.8	493.1	435.5	401.0	368.4	337.7	320.4	318.4
30°	6898.8	5753.5	3004.3	702.2	435.5	378.0	331.8	297.4	268.6	255.1	255.1
32.5°	6785.5	5553.9	2513.2	529.5	387.5	324.2	274.4	241.7	222.5	216.8	214.8
35°	6683.9	5339.1	2008.7	448.9	347.2	274.4	224.4	203.4	191.8	190.0	188.0
37.5°	6624.4	5166.4	1534.7	406.7	308.8	230.2	190.0	174.6	168.8	165.0	166.9
40°	6670.5	5022.5	1133.8	372.1	270.5	191.8	161.1	153.4	147.7	145.8	145.8
42.5°	6871.9	4997.5	842.2	341.5	234.1	159.3	140.0	134.3	130.4	128.6	130.4
45°	7401.4	5151.1	654.2	312.7	197.6	134.3	119.0	117.0	115.1	115.1	115.1
47.5°	8197.5	5467.6	544.8	280.1	165.0	115.1	103.6	101.7	99.7	101.7	101.7
50°	9546.2	6047.0	487.3	247.5	136.3	97.8	88.3	88.3	88.3	88.3	90.1
52.5°	11597.1	7186.5	448.9	214.8	111.3	82.4	74.8	74.8	76.7	76.7	78.7
55°	13882.0	8698.3	414.4	182.3	94.0	69.0	61.4	63.3	65.3	67.1	67.1
57.5°	16360.6	10373.0	385.7	149.7	80.6	55.6	51.8	53.7	55.6	59.4	59.4
60°	19351.5	12186.0	343.4	117.0	67.1	44.1	40.3	44.1	49.9	53.7	55.6
62.5°	22635.9	13939.4	289.7	92.1	55.6	34.6	32.6	40.3	48.0	51.8	53.7
65°	24880.4	14490.1	222.5	74.8	42.2	25.0	26.9	36.4	46.0	51.8	51.8
67°	23971.0	13137.6	182.3	63.3	34.6	19.2	25.0	36.4	46.0	49.9	51.8
67.5°	23339.9	12608.1	174.6	61.4	32.6	19.2	25.0	36.4	46.0	51.8	51.8
70°	18990.8	9471.4	145.8	46.0	26.9	17.3	21.1	34.6	44.1	49.9	49.9
72.5°	13195.1	5839.7	130.4	32.6	23.0	15.3	19.2	32.6	42.2	48.0	49.9
75°	6273.3	2114.1	111.3	25.0	21.1	13.4	17.3	32.6	42.2	48.0	48.0
77.5°	1279.6	491.1	90.1	21.1	17.3	13.4	15.3	30.7	40.3	46.0	46.0
80°	420.1	190.0	67.1	19.2	17.3	13.4	15.3	28.7	40.3	44.1	46.0
82.5°	303.1	96.0	44.1	19.2	17.3	13.4	13.4	28.7	38.4	44.1	44.1
85°	232.1	67.1	28.7	19.2	17.3	13.4	13.4	26.9	36.4	42.2	42.2
87.5°	153.4	26.9	23.0	19.2	17.3	13.4	13.4	26.9	34.6	40.3	42.2
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)