

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: P191838

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191838
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-SL2-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 32153 lumens
Efficiency: N/A
Efficacy: 99.5 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

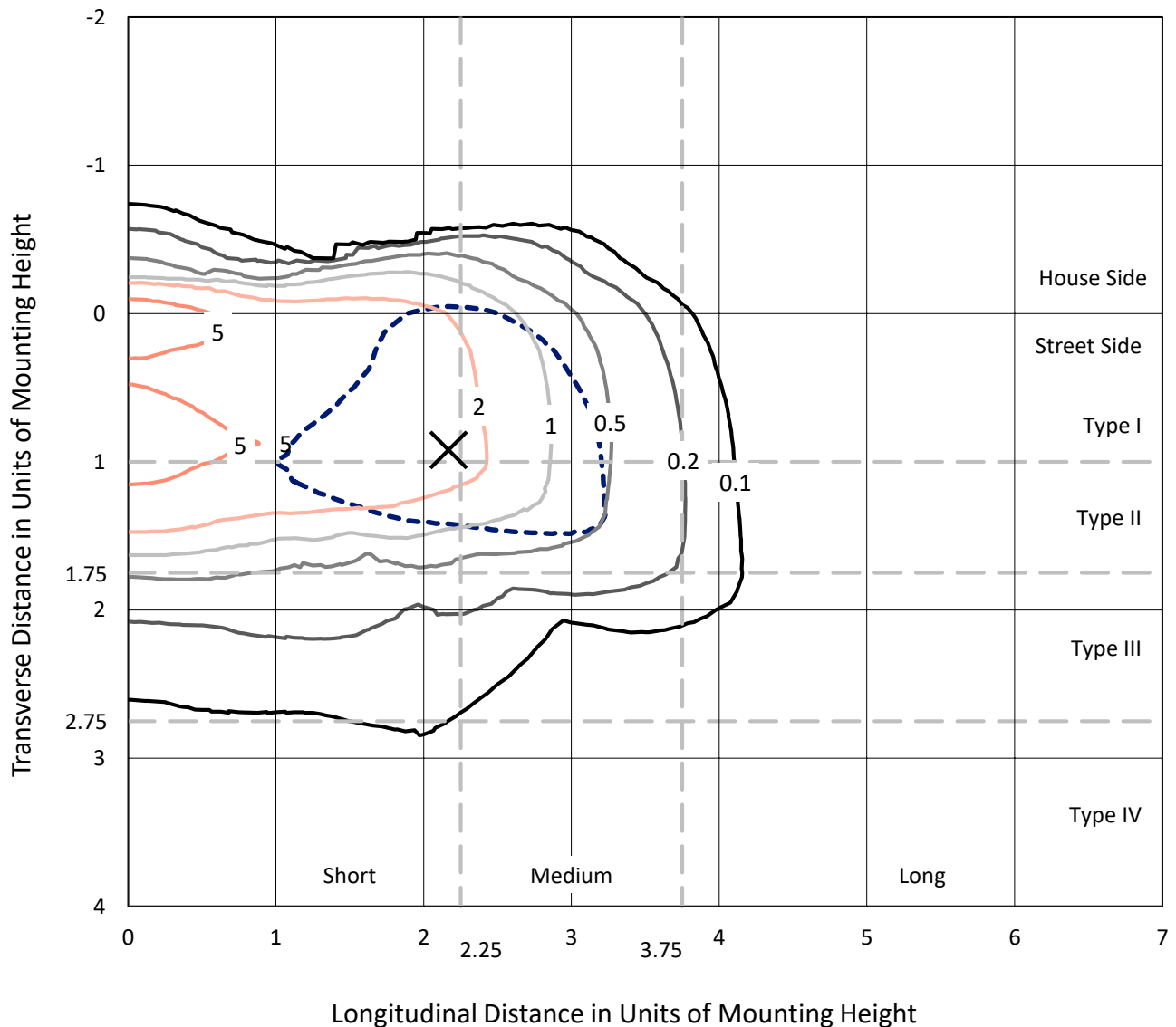


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Iso-Footcandle Lines of Horizontal Illumination

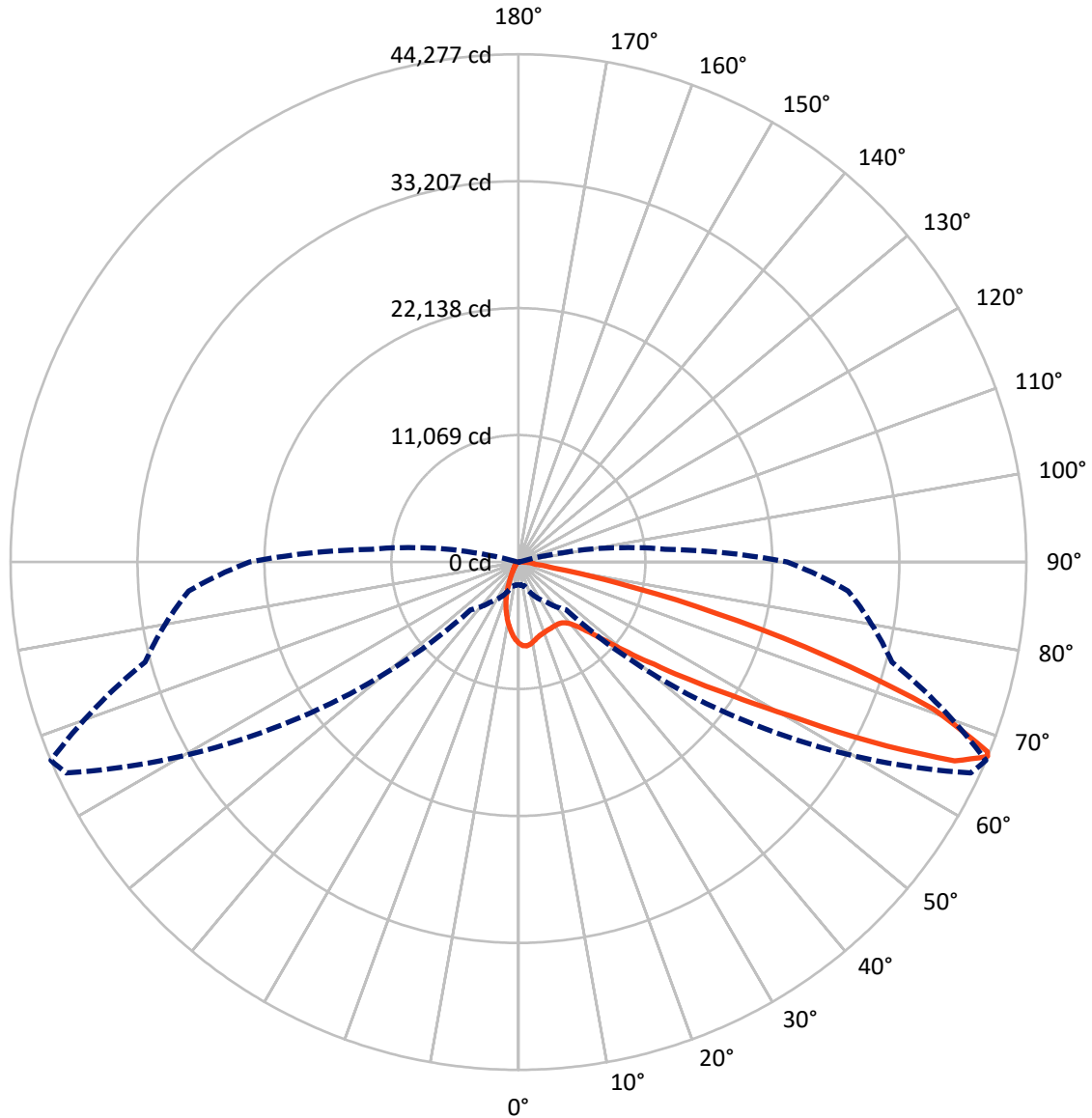
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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	3338.4	0.0	3338.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	28814.6	0.0	28814.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	32153.0	0.0	32153.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.0	1.8
10°-20°	1228.0	3.8
20°-30°	1785.5	5.6
30°-40°	2785.4	8.7
40°-50°	4934.1	15.3
50°-60°	7807.8	24.3
60°-70°	8942.7	27.8
70°-80°	3709.4	11.5
80°-90°	383.2	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°	32153.0	100.0
0°-180°	32153.0	100.0



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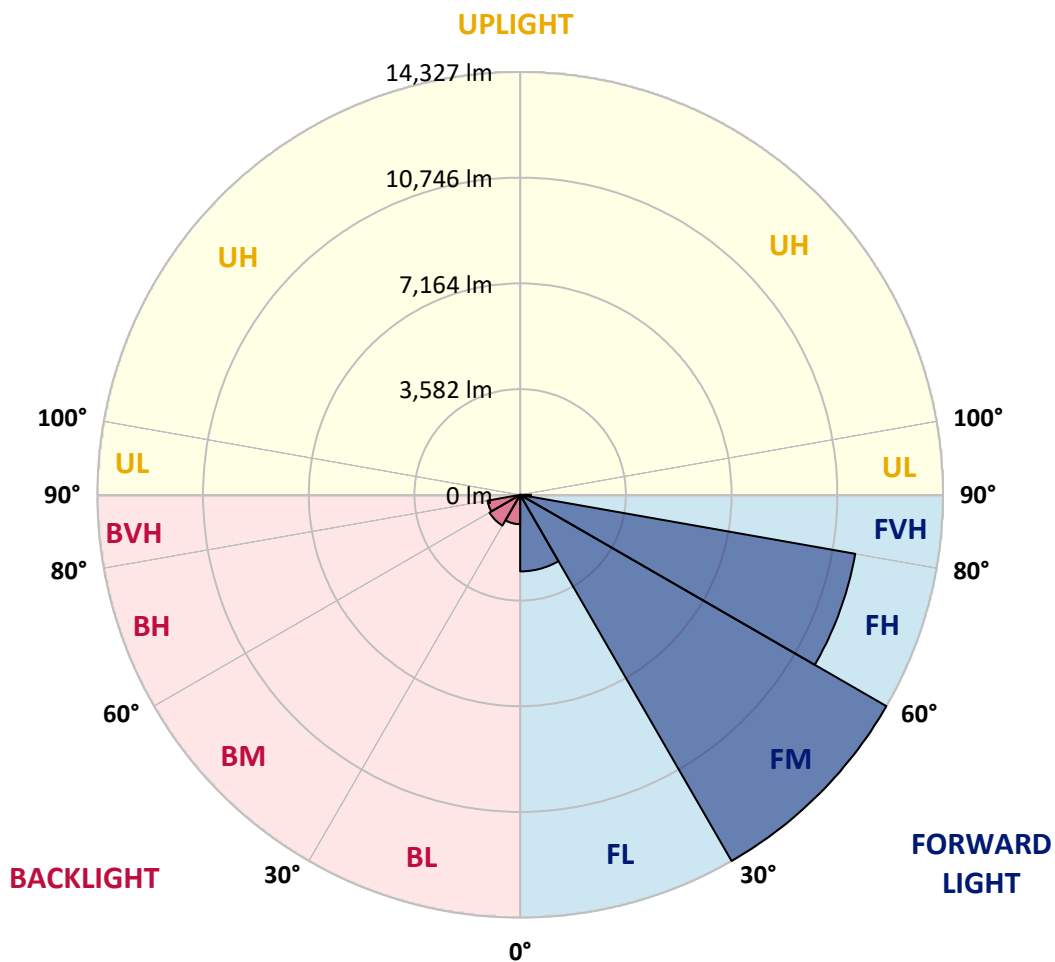
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2594.3	8.1			
FM (30°-60°)	14327.5	44.6			
FH (60°-80°)	11526.9	35.9			G4/12000
FVH (80°-90°)	365.9	1.1			G3/500
BL (0°-30°)	996.2	3.1	B2/1000		
BM (30°-60°)	1199.8	3.7	B2/2500		
BH (60°-80°)	1125.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9
2.5°	7331.0	7346.0	7344.1	7355.4	7381.6	7383.5	7357.2	7306.6	7295.3	7229.7	7115.3
5°	6760.9	6804.0	6830.2	6937.1	7057.2	7201.6	7310.3	7349.7	7344.1	7297.2	7124.7
7.5°	6110.1	6153.2	6183.2	6308.9	6468.3	6715.8	6999.0	7231.6	7252.2	7302.8	7117.2
10°	5676.9	5684.4	5725.6	5845.7	6012.6	6265.7	6603.3	7010.3	7072.2	7257.8	7098.4
12.5°	5320.5	5326.2	5380.6	5510.0	5688.1	5943.2	6297.6	6768.4	6864.0	7201.6	7094.7
15°	5067.4	5088.0	5136.7	5271.8	5461.2	5714.4	6078.2	6590.2	6704.6	7180.9	7128.4
17.5°	4983.0	5005.5	5020.5	5118.0	5290.5	5538.1	5911.3	6473.9	6603.3	7192.2	7194.1
20°	5071.1	5088.0	5054.2	5078.6	5185.5	5406.8	5770.6	6374.5	6528.3	7205.3	7278.5
22.5°	5399.3	5406.8	5314.9	5208.0	5189.3	5311.2	5660.0	6295.8	6460.8	7241.0	7377.9
25°	5961.9	5948.8	5798.8	5568.1	5350.5	5294.3	5594.3	6247.0	6427.0	7278.5	7481.0
27.5°	6640.8	6659.6	6453.3	6117.6	5703.1	5406.8	5585.0	6226.4	6412.0	7304.7	7571.0
30°	7466.0	7492.3	7256.0	6834.0	6239.5	5684.4	5671.2	6222.6	6402.6	7287.8	7578.5
32.5°	8308.1	8339.9	8154.3	7719.2	6955.9	6149.5	5866.3	6263.9	6421.4	7229.7	7535.4
35°	9189.5	9234.5	9110.7	8737.5	7927.4	6820.9	6209.5	6389.5	6509.5	7224.1	7492.3
37.5°	10406.6	10447.9	10215.4	9819.6	9103.2	7721.1	6760.9	6625.8	6717.7	7314.1	7503.5
40°	12223.9	12218.3	11618.2	11012.4	10395.4	8865.1	7535.4	7053.4	7100.3	7586.0	7642.3
42.5°	14204.4	14195.0	13307.9	12387.1	11830.1	10273.5	8553.7	7792.3	7760.4	8086.8	8002.4
45°	15730.9	15729.1	15005.2	13968.1	13557.3	11890.1	9870.3	8820.1	8771.3	8900.7	8666.3
47.5°	16381.7	16393.0	16029.1	15299.6	15472.1	14076.8	11530.0	10309.1	10236.0	10183.5	9827.1
50°	15875.3	15897.8	15927.9	15785.3	16876.8	17015.6	13756.1	12407.7	12372.1	12137.7	11580.7
52.5°	14221.2	14335.6	14688.2	15140.2	17364.4	19836.2	17246.3	15014.5	14823.2	14573.8	13960.5
55°	11434.4	11560.0	12229.5	13326.7	16638.6	21689.1	22137.3	18375.3	18056.4	17311.9	16426.7
57.5°	7567.3	7762.3	8733.8	10129.1	14530.7	21987.3	27017.2	23039.4	21929.2	19890.6	18892.9
60°	4169.0	4356.6	5410.6	6674.6	10494.8	20513.2	30299.1	29112.0	27150.3	22773.1	21887.9
62.5°	2567.4	2668.7	3447.0	4622.9	6293.9	16190.4	30978.0	36743.0	34471.9	26484.5	25505.6
65°	2044.2	2087.3	2468.0	3779.0	4512.2	9630.2	28785.7	42560.5	41802.9	30978.0	28744.4
67°	1984.2	2001.1	2181.1	3244.5	4253.4	5903.8	24115.9	43507.6	44276.5	33697.4	28845.7
67.5°	1997.3	2016.1	2186.7	3096.3	4245.9	5425.6	22506.8	43134.4	44105.9	33913.0	28397.5
70°	1926.0	1984.2	2503.7	3094.4	4037.8	4508.5	13478.6	37373.2	38384.0	31510.6	24095.3
72.5°	682.6	686.4	1082.1	2503.7	4390.3	4557.2	6768.4	27397.9	28146.1	24104.6	17371.9
75°	405.1	345.1	360.1	712.7	4195.3	4426.0	3904.6	17506.9	17786.4	13812.4	8797.5
77.5°	279.4	243.8	251.3	315.1	1597.8	4364.1	3101.9	9129.5	8831.3	4844.2	1873.5
80°	159.4	140.7	150.0	275.7	581.4	4071.5	2925.6	3702.1	3156.3	821.4	517.6
82.5°	84.4	71.3	86.3	226.9	405.1	2537.4	2931.3	1789.1	1417.8	277.6	352.6
85°	30.0	24.4	41.3	155.7	270.1	778.3	2717.5	1504.1	1181.5	135.0	268.2
87.5°	5.6	5.6	16.9	63.8	108.8	238.2	1607.2	892.7	598.3	80.6	183.8
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°	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9	7090.9
2.5°	7068.4	6987.8	6879.0	6745.8	6588.3	6449.5	6346.4	6239.5	6217.0	6179.5	6173.8
5°	7021.5	6882.8	6612.7	6303.3	5973.2	5675.0	5433.1	5217.4	5121.7	5039.2	5029.8
7.5°	6952.1	6744.0	6284.5	5785.6	5269.9	4801.0	4403.5	4122.2	3863.3	3739.6	3720.8
10°	6871.5	6573.3	5915.0	5223.0	4510.4	3848.3	3257.6	2762.5	2462.4	2284.2	2261.7
12.5°	6796.5	6406.4	5538.1	4639.8	3692.7	2807.5	2047.9	1575.3	1260.3	1132.7	1117.7
15°	6760.9	6271.4	5185.5	4043.4	2837.5	1787.3	1119.6	866.4	763.3	733.3	731.4
17.5°	6757.1	6157.0	4840.4	3426.4	1987.9	1039.0	729.5	665.8	645.1	637.6	637.6
20°	6755.2	6048.2	4495.4	2786.9	1262.2	692.0	607.6	592.6	577.6	568.2	568.2
22.5°	6775.9	5950.7	4135.3	2134.2	795.2	560.7	534.5	519.5	500.7	487.6	485.7
25°	6796.5	5875.7	3767.7	1519.1	575.8	487.6	461.4	440.7	414.5	397.6	395.7
27.5°	6800.2	5781.9	3373.9	1016.5	482.0	425.7	392.0	360.1	330.1	313.2	311.3
30°	6744.0	5624.4	2936.9	686.4	425.7	369.5	324.4	290.7	262.6	249.4	249.4
32.5°	6633.3	5429.3	2456.8	517.6	378.8	316.9	268.2	236.3	217.5	211.9	210.0
35°	6533.9	5219.3	1963.6	438.8	339.4	268.2	219.4	198.8	187.5	185.7	183.8
37.5°	6475.8	5050.5	1500.3	397.6	301.9	225.0	185.7	170.7	165.0	161.3	163.2
40°	6520.8	4909.8	1108.4	363.8	264.4	187.5	157.5	150.0	144.4	142.5	142.5
42.5°	6717.7	4885.4	823.3	333.8	228.8	155.7	136.9	131.3	127.5	125.7	127.5
45°	7235.3	5035.5	639.5	305.7	193.2	131.3	116.3	114.4	112.5	112.5	112.5
47.5°	8013.6	5344.9	532.6	273.8	161.3	112.5	101.3	99.4	97.5	99.4	99.4
50°	9332.0	5911.3	476.4	241.9	133.2	95.6	86.3	86.3	86.3	86.3	88.1
52.5°	11336.9	7025.3	438.8	210.0	108.8	80.6	73.1	73.1	75.0	75.0	76.9
55°	13570.5	8503.1	405.1	178.2	91.9	67.5	60.0	61.9	63.8	65.6	65.6
57.5°	15993.5	10140.3	377.0	146.3	78.8	54.4	50.6	52.5	54.4	58.1	58.1
60°	18917.3	11912.6	335.7	114.4	65.6	43.1	39.4	43.1	48.8	52.5	54.4
62.5°	22128.0	13626.7	283.2	90.0	54.4	33.8	31.9	39.4	46.9	50.6	52.5
65°	24322.2	14165.0	217.5	73.1	41.3	24.4	26.3	35.6	45.0	50.6	50.6
67°	23433.2	12842.8	178.2	61.9	33.8	18.8	24.4	35.6	45.0	48.8	50.6
67.5°	22816.2	12325.2	170.7	60.0	31.9	18.8	24.4	35.6	45.0	50.6	50.6
70°	18564.7	9258.9	142.5	45.0	26.3	16.9	20.6	33.8	43.1	48.8	48.8
72.5°	12899.1	5708.7	127.5	31.9	22.5	15.0	18.8	31.9	41.3	46.9	48.8
75°	6132.6	2066.7	108.8	24.4	20.6	13.1	16.9	31.9	41.3	46.9	46.9
77.5°	1250.9	480.1	88.1	20.6	16.9	13.1	15.0	30.0	39.4	45.0	45.0
80°	410.7	185.7	65.6	18.8	16.9	13.1	15.0	28.1	39.4	43.1	45.0
82.5°	296.3	93.8	43.1	18.8	16.9	13.1	13.1	28.1	37.5	43.1	43.1
85°	226.9	65.6	28.1	18.8	16.9	13.1	13.1	26.3	35.6	41.3	41.3
87.5°	150.0	26.3	22.5	18.8	16.9	13.1	13.1	26.3	33.8	39.4	41.3
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)