

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: P191845

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191845
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-07-LED-E1-SL2-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 28175 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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

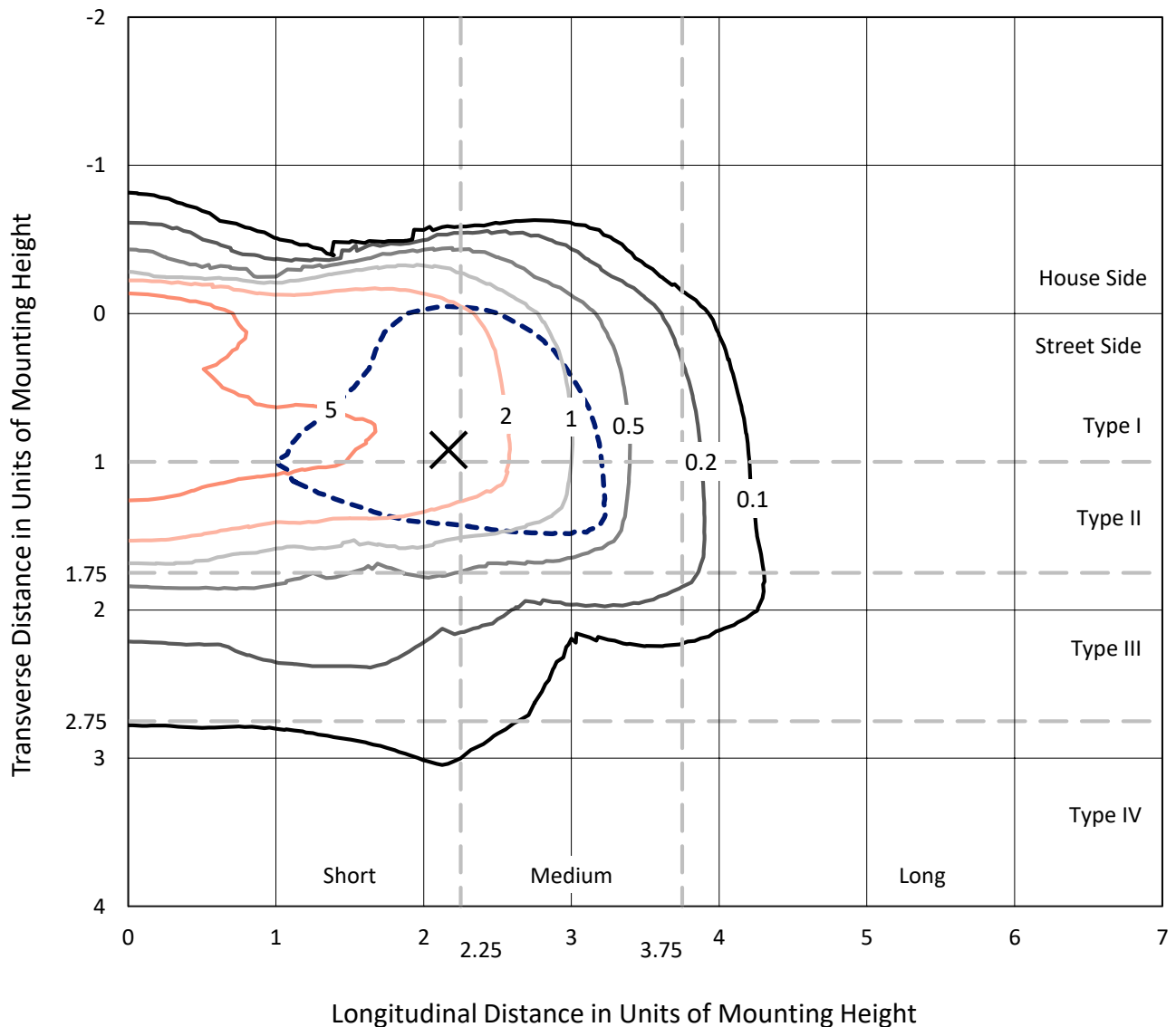


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Iso-Footcandle Lines of Horizontal Illumination

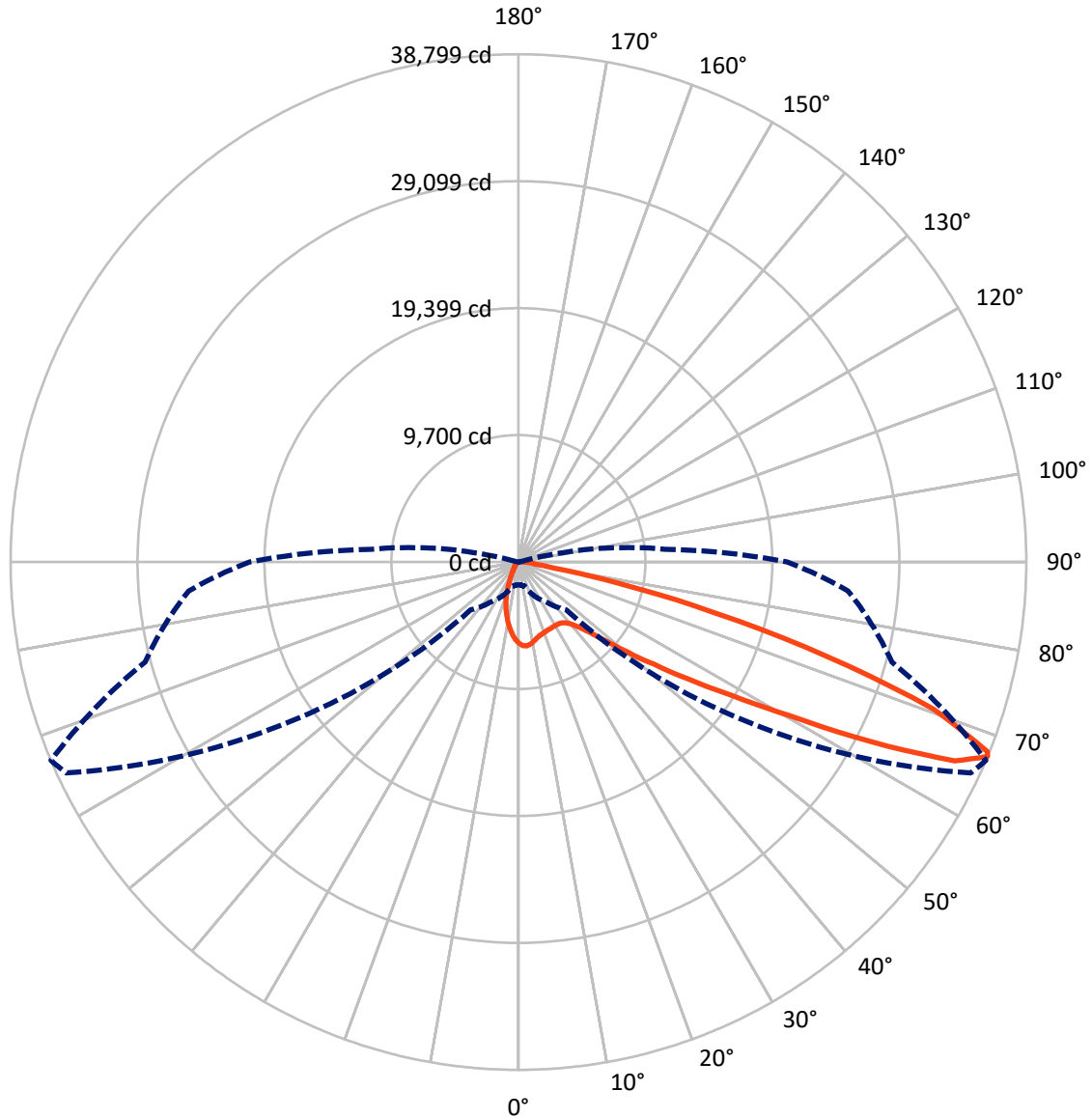
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	2925.4	0.0	2925.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25249.6	0.0	25249.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	28175.0	0.0	28175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.6	1.8
10°-20°	1076.1	3.8
20°-30°	1564.6	5.6
30°-40°	2440.8	8.7
40°-50°	4323.7	15.3
50°-60°	6841.8	24.3
60°-70°	7836.3	27.8
70°-80°	3250.5	11.5
80°-90°	335.8	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°	28175.0	100.0
0°-180°	28175.0	100.0



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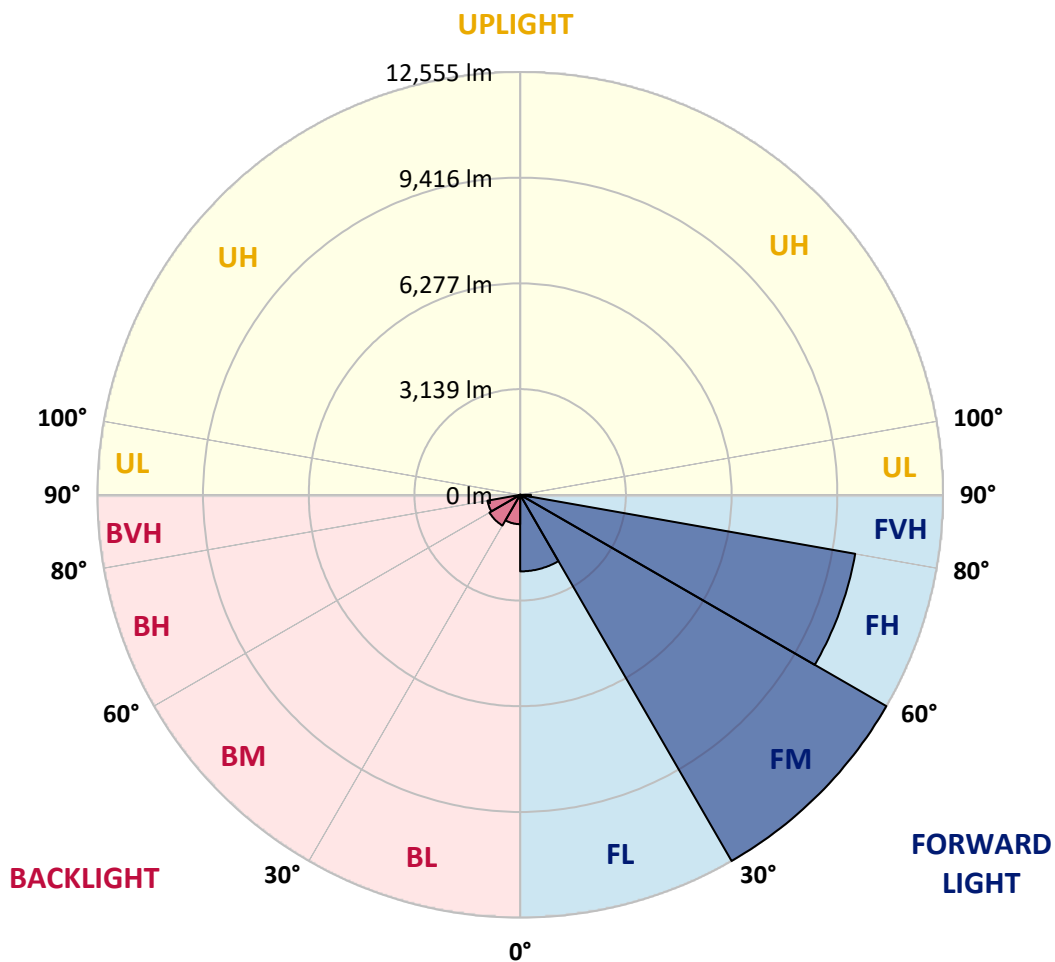
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.3	8.1			
FM (30°-60°)	12554.9	44.6			
FH (60°-80°)	10100.8	35.9			G4/12000
FVH (80°-90°)	320.6	1.1			G3/500
BL (0°-30°)	872.9	3.1	B2/1000		
BM (30°-60°)	1051.4	3.7	B2/2500		
BH (60°-80°)	986.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6
2.5°	6424.0	6437.1	6435.5	6445.3	6468.4	6470.0	6447.0	6402.6	6392.8	6335.2	6235.0
5°	5924.4	5962.2	5985.2	6078.9	6184.0	6310.6	6405.9	6440.4	6435.5	6394.4	6243.2
7.5°	5354.1	5391.9	5418.2	5528.3	5668.0	5885.0	6133.1	6336.9	6355.0	6399.3	6236.6
10°	4974.5	4981.1	5017.2	5122.4	5268.7	5490.5	5786.3	6143.0	6197.2	6359.9	6220.2
12.5°	4662.3	4667.2	4714.9	4828.3	4984.4	5207.9	5518.5	5931.0	6014.8	6310.6	6216.9
15°	4440.4	4458.5	4501.2	4619.5	4785.5	5007.4	5326.2	5774.8	5875.1	6292.5	6246.5
17.5°	4366.5	4386.2	4399.3	4484.8	4636.0	4852.9	5179.9	5673.0	5786.3	6302.4	6304.0
20°	4443.7	4458.5	4428.9	4450.3	4544.0	4737.9	5056.7	5585.9	5720.6	6313.9	6378.0
22.5°	4731.3	4737.9	4657.3	4563.7	4547.2	4654.1	4959.7	5516.8	5661.5	6345.1	6465.1
25°	5224.3	5212.8	5081.3	4879.2	4688.6	4639.3	4902.2	5474.1	5631.9	6378.0	6555.5
27.5°	5819.2	5835.7	5654.9	5360.7	4997.5	4737.9	4894.0	5456.0	5618.7	6401.0	6634.3
30°	6542.3	6565.3	6358.2	5988.5	5467.5	4981.1	4969.6	5452.7	5610.5	6386.2	6640.9
32.5°	7280.2	7308.1	7145.4	6764.2	6095.3	5388.7	5140.5	5488.9	5626.9	6335.2	6603.1
35°	8052.6	8092.0	7983.6	7656.5	6946.6	5977.0	5441.2	5599.0	5704.2	6330.3	6565.3
37.5°	9119.1	9155.3	8951.5	8604.7	7977.0	6765.8	5924.4	5806.1	5886.6	6409.2	6575.2
40°	10711.6	10706.6	10180.8	9649.9	9109.3	7768.3	6603.1	6180.8	6221.8	6647.5	6696.8
42.5°	12447.0	12438.8	11661.4	10854.5	10366.5	9002.4	7495.5	6828.3	6800.3	7086.3	7012.3
45°	13784.7	13783.0	13148.7	12239.9	11880.0	10419.0	8649.1	7728.8	7686.1	7799.5	7594.1
47.5°	14354.9	14364.8	14046.0	13406.7	13557.9	12335.2	10103.5	9033.7	8969.6	8923.6	8611.3
50°	13911.2	13931.0	13957.2	13832.3	14788.8	14910.4	12054.2	10872.6	10841.4	10636.0	10147.9
52.5°	12461.8	12562.0	12871.0	13267.0	15216.1	17382.1	15112.5	13156.9	12989.3	12770.7	12233.3
55°	10019.7	10129.8	10716.5	11677.9	14580.1	19005.7	19398.5	16101.9	15822.5	15170.1	14394.4
57.5°	6631.0	6802.0	7653.2	8875.9	12732.9	19267.0	23674.6	20188.9	19216.1	17429.7	16555.4
60°	3653.2	3817.6	4741.2	5848.8	9196.4	17975.3	26550.5	25510.2	23791.2	19955.6	19179.9
62.5°	2249.8	2338.5	3020.5	4050.9	5515.2	14187.3	27145.4	32197.1	30207.0	23207.8	22350.0
65°	1791.3	1829.1	2162.7	3311.4	3954.0	8438.8	25224.3	37294.9	36631.0	27145.4	25188.1
67°	1738.7	1753.5	1911.3	2843.1	3727.2	5173.4	21132.3	38124.8	38798.6	29528.3	25276.9
67.5°	1750.2	1766.6	1916.2	2713.2	3720.6	4754.3	19722.2	37797.8	38649.1	29717.3	24884.1
70°	1687.8	1738.7	2193.9	2711.6	3538.2	3950.7	11811.0	32749.3	33635.1	27612.1	21114.2
72.5°	598.2	601.5	948.2	2193.9	3847.2	3993.4	5931.0	24008.2	24663.9	21122.4	15222.6
75°	355.0	302.4	315.5	624.5	3676.2	3878.4	3421.5	15341.0	15585.8	12103.5	7709.1
77.5°	244.9	213.6	220.2	276.1	1400.2	3824.2	2718.2	8000.0	7738.7	4244.9	1641.7
80°	139.7	123.3	131.5	241.6	509.4	3567.8	2563.7	3244.0	2765.8	719.8	453.6
82.5°	74.0	62.4	75.6	198.8	355.0	2223.5	2568.6	1567.8	1242.4	243.2	309.0
85°	26.3	21.4	36.2	136.4	236.6	682.0	2381.3	1318.0	1035.3	118.3	235.0
87.5°	4.9	4.9	14.8	55.9	95.3	208.7	1408.4	782.2	524.2	70.7	161.1
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°	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6
2.5°	6193.9	6123.2	6027.9	5911.2	5773.2	5651.6	5561.2	5467.5	5447.8	5414.9	5410.0
5°	6152.8	6031.2	5794.6	5523.4	5234.2	4972.9	4760.9	4571.9	4488.1	4415.8	4407.6
7.5°	6092.0	5909.6	5507.0	5069.8	4617.9	4207.1	3858.7	3612.2	3385.4	3276.9	3260.5
10°	6021.4	5760.1	5183.2	4576.8	3952.3	3372.2	2854.6	2420.7	2157.8	2001.6	1981.9
12.5°	5955.6	5613.8	4852.9	4065.7	3235.8	2460.1	1794.6	1380.4	1104.4	992.6	979.5
15°	5924.4	5495.5	4544.0	3543.1	2486.4	1566.1	981.1	759.2	668.9	642.6	640.9
17.5°	5921.1	5395.2	4241.6	3002.5	1742.0	910.4	639.3	583.4	565.3	558.7	558.7
20°	5919.5	5299.9	3939.2	2442.1	1106.0	606.4	532.5	519.3	506.2	497.9	497.9
22.5°	5937.5	5214.5	3623.7	1870.2	696.8	491.4	468.4	455.2	438.8	427.3	425.6
25°	5955.6	5148.7	3301.6	1331.1	504.5	427.3	404.3	386.2	363.2	348.4	346.8
27.5°	5958.9	5066.5	2956.4	890.7	422.3	373.0	343.5	315.5	289.2	274.4	272.8
30°	5909.6	4928.5	2573.5	601.5	373.0	323.7	284.3	254.7	230.1	218.6	218.6
32.5°	5812.6	4757.6	2152.8	453.6	332.0	277.7	235.0	207.1	190.6	185.7	184.1
35°	5725.5	4573.5	1720.6	384.6	297.5	235.0	192.3	174.2	164.3	162.7	161.1
37.5°	5674.6	4425.6	1314.7	348.4	264.6	197.2	162.7	149.5	144.6	141.3	143.0
40°	5714.0	4302.4	971.2	318.8	231.7	164.3	138.0	131.5	126.5	124.9	124.9
42.5°	5886.6	4281.0	721.4	292.5	200.5	136.4	120.0	115.0	111.7	110.1	111.7
45°	6340.2	4412.5	560.4	267.9	169.3	115.0	101.9	100.2	98.6	98.6	98.6
47.5°	7022.2	4683.6	466.7	239.9	141.3	98.6	88.7	87.1	85.5	87.1	87.1
50°	8177.5	5179.9	417.4	212.0	116.7	83.8	75.6	75.6	75.6	75.6	77.2
52.5°	9934.2	6156.1	384.6	184.1	95.3	70.7	64.1	64.1	65.7	65.7	67.4
55°	11891.5	7451.1	355.0	156.1	80.5	59.2	52.6	54.2	55.9	57.5	57.5
57.5°	14014.8	8885.8	330.3	128.2	69.0	47.7	44.4	46.0	47.7	50.9	50.9
60°	16576.8	10438.8	294.2	100.2	57.5	37.8	34.5	37.8	42.7	46.0	47.7
62.5°	19390.3	11940.8	248.2	78.9	47.7	29.6	27.9	34.5	41.1	44.4	46.0
65°	21313.0	12412.5	190.6	64.1	36.2	21.4	23.0	31.2	39.4	44.4	44.4
67°	20534.1	11253.9	156.1	54.2	29.6	16.4	21.4	31.2	39.4	42.7	44.4
67.5°	19993.4	10800.3	149.5	52.6	27.9	16.4	21.4	31.2	39.4	44.4	44.4
70°	16267.8	8113.4	124.9	39.4	23.0	14.8	18.1	29.6	37.8	42.7	42.7
72.5°	11303.2	5002.5	111.7	27.9	19.7	13.1	16.4	27.9	36.2	41.1	42.7
75°	5373.9	1811.0	95.3	21.4	18.1	11.5	14.8	27.9	36.2	41.1	41.1
77.5°	1096.1	420.7	77.2	18.1	14.8	11.5	13.1	26.3	34.5	39.4	39.4
80°	359.9	162.7	57.5	16.4	14.8	11.5	13.1	24.7	34.5	37.8	39.4
82.5°	259.7	82.2	37.8	16.4	14.8	11.5	11.5	24.7	32.9	37.8	37.8
85°	198.8	57.5	24.7	16.4	14.8	11.5	11.5	23.0	31.2	36.2	36.2
87.5°	131.5	23.0	19.7	16.4	14.8	11.5	11.5	23.0	29.6	34.5	36.2
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)