

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: P193588

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193588
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-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 32173 lumens
Efficiency: N/A
Efficacy: 76.8 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): 419
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

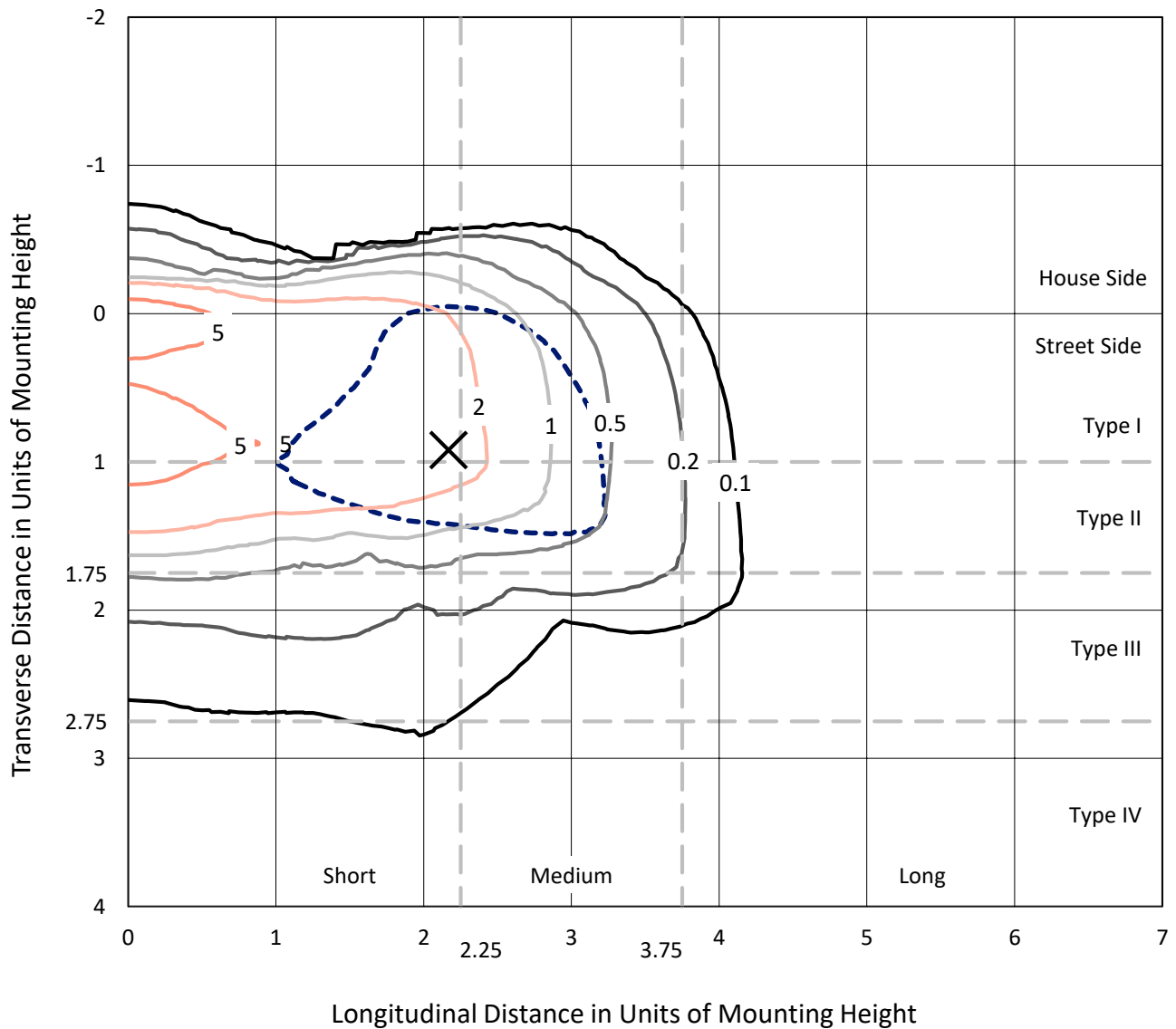


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

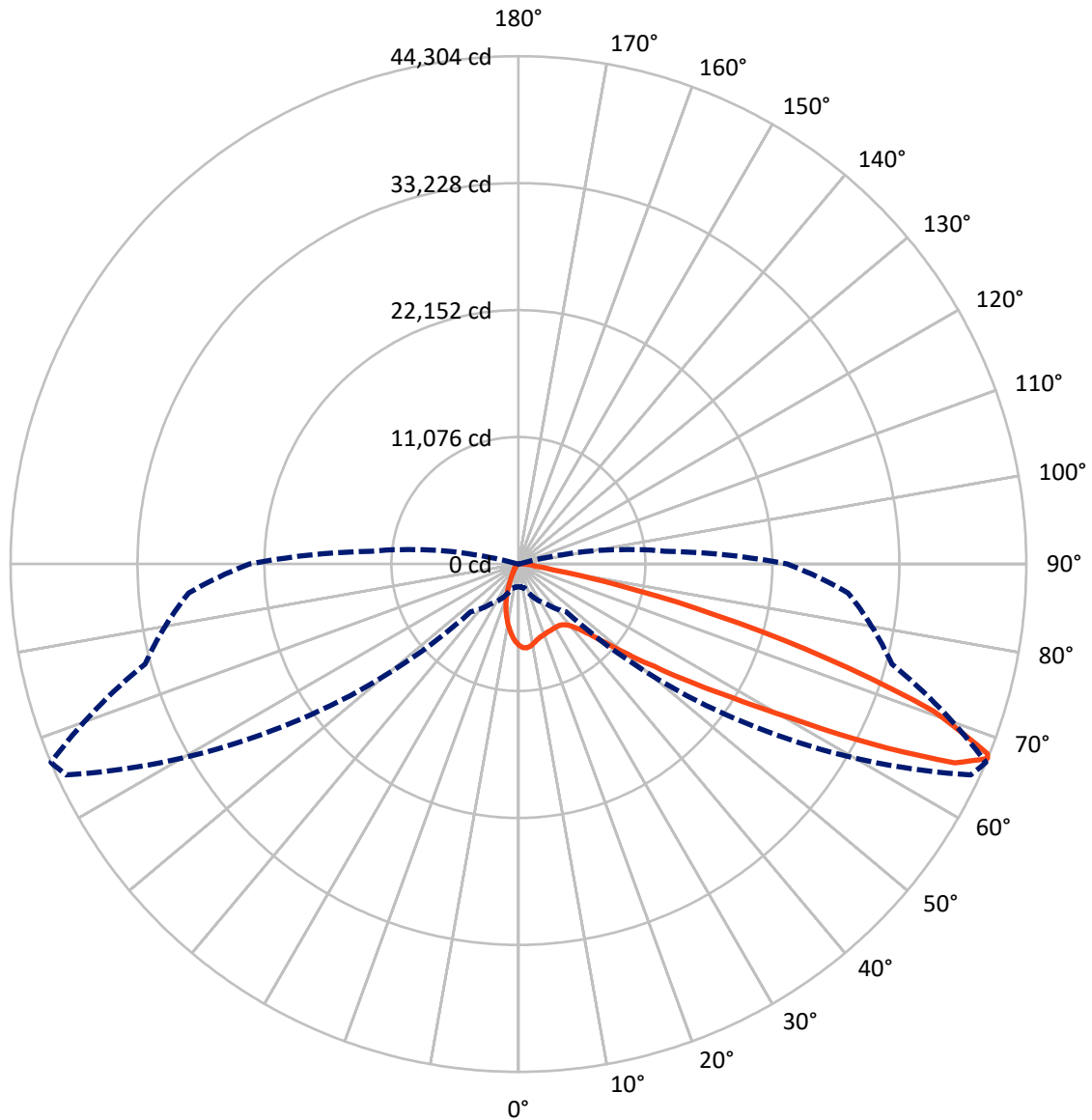


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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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	3340.5	0.0	3340.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	28832.5	0.0	28832.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	32173.0	0.0	32173.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.3	1.8
10°-20°	1228.8	3.8
20°-30°	1786.6	5.6
30°-40°	2787.1	8.7
40°-50°	4937.2	15.3
50°-60°	7812.6	24.3
60°-70°	8948.3	27.8
70°-80°	3711.7	11.5
80°-90°	383.4	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°	32173.0	100.0
0°-180°	32173.0	100.0



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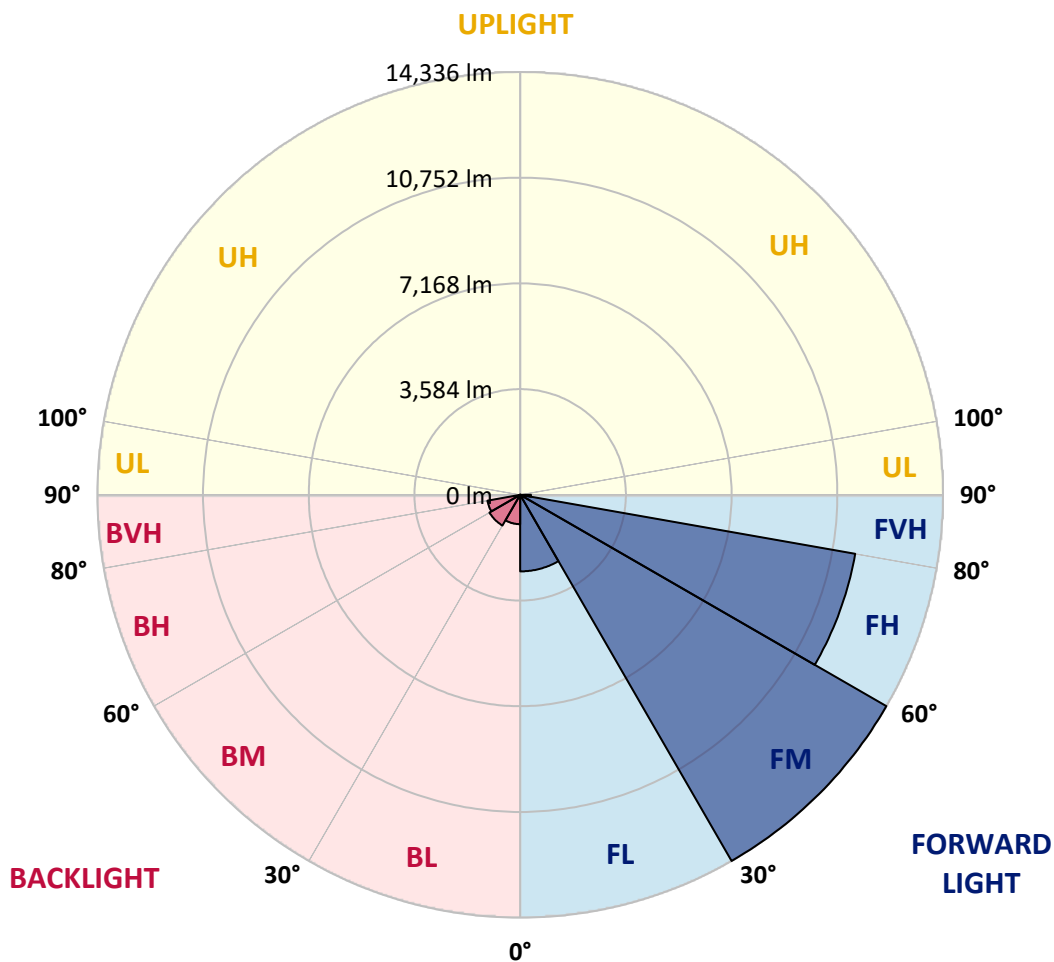
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2595.9	8.1			
FM (30°-60°)	14336.4	44.6			
FH (60°-80°)	11534.1	35.9			G4/12000
FVH (80°-90°)	366.1	1.1			G3/500
BL (0°-30°)	996.8	3.1	B2/1000		
BM (30°-60°)	1200.6	3.7	B2/2500		
BH (60°-80°)	1125.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.3	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°	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3
2.5°	7335.5	7350.5	7348.7	7359.9	7386.2	7388.1	7361.8	7311.1	7299.9	7234.2	7119.7
5°	6765.1	6808.2	6834.5	6941.5	7061.6	7206.1	7314.9	7354.3	7348.7	7301.8	7129.1
7.5°	6113.9	6157.0	6187.1	6312.8	6472.3	6720.0	7003.4	7236.1	7256.7	7307.4	7121.6
10°	5680.4	5687.9	5729.2	5849.3	6016.3	6269.6	6607.4	7014.6	7076.6	7262.3	7102.8
12.5°	5323.8	5329.5	5383.9	5513.4	5691.7	5946.9	6301.5	6772.6	6868.3	7206.1	7099.1
15°	5070.5	5091.2	5139.9	5275.1	5464.6	5717.9	6082.0	6594.3	6708.8	7185.4	7132.9
17.5°	4986.1	5008.6	5023.6	5121.2	5293.8	5541.5	5915.0	6477.9	6607.4	7196.7	7198.5
20°	5074.3	5091.2	5057.4	5081.8	5188.7	5410.2	5774.2	6378.5	6532.4	7209.8	7283.0
22.5°	5402.7	5410.2	5318.2	5211.3	5192.5	5314.5	5663.5	6299.7	6464.8	7245.5	7382.5
25°	5965.6	5952.5	5802.4	5571.6	5353.9	5297.6	5597.8	6250.9	6431.0	7283.0	7485.7
27.5°	6645.0	6663.7	6457.3	6121.4	5706.7	5410.2	5588.4	6230.2	6416.0	7309.3	7575.7
30°	7470.6	7496.9	7260.5	6838.2	6243.4	5687.9	5674.8	6226.5	6406.6	7292.4	7583.2
32.5°	8313.2	8345.1	8159.4	7724.0	6960.2	6153.3	5869.9	6267.8	6425.4	7234.2	7540.1
35°	9195.2	9240.3	9116.4	8743.0	7932.3	6825.1	6213.3	6393.5	6513.6	7228.6	7496.9
37.5°	10413.1	10454.4	10221.7	9825.8	9108.9	7725.9	6765.1	6629.9	6721.9	7318.6	7508.2
40°	12231.5	12225.9	11625.4	11019.3	10401.9	8870.6	7540.1	7057.8	7104.7	7590.8	7647.0
42.5°	14213.2	14203.8	13316.2	12394.8	11837.4	10279.9	8559.1	7797.2	7765.3	8091.8	8007.4
45°	15740.7	15738.8	15014.5	13976.7	13565.8	11897.5	9876.4	8825.5	8776.7	8906.2	8671.7
47.5°	16391.9	16403.2	16039.1	15309.1	15481.8	14085.6	11537.2	10315.5	10242.4	10189.8	9833.3
50°	15885.2	15907.7	15937.8	15795.1	16887.3	17026.2	13764.7	12415.4	12379.8	12145.2	11587.9
52.5°	14230.1	14344.5	14697.3	15149.6	17375.2	19848.5	17257.0	15023.9	14832.5	14582.9	13969.2
55°	11441.5	11567.2	12237.2	13335.0	16649.0	21702.6	22151.1	18386.7	18067.7	17322.7	16436.9
57.5°	7572.0	7767.1	8739.2	10135.4	14539.7	22001.0	27034.0	23053.7	21942.8	19903.0	18904.6
60°	4171.6	4359.3	5413.9	6678.7	10501.3	20526.0	30318.0	29130.1	27167.2	22787.3	21901.5
62.5°	2569.0	2670.4	3449.1	4625.8	6297.8	16200.5	30997.3	36765.9	34493.3	26501.0	25521.4
65°	2045.5	2088.6	2469.6	3781.3	4515.0	9636.2	28803.6	42587.0	41828.9	30997.3	28762.3
67°	1985.4	2002.3	2182.5	3246.5	4256.1	5907.5	24130.9	43534.7	44304.1	33718.3	28863.6
67.5°	1998.6	2017.3	2188.1	3098.2	4248.6	5428.9	22520.8	43161.3	44133.3	33934.1	28415.1
70°	1927.2	1985.4	2505.2	3096.4	4040.3	4511.3	13487.0	37396.4	38407.9	31530.2	24110.3
72.5°	683.1	686.8	1082.8	2505.2	4393.1	4560.1	6772.6	27414.9	28163.7	24119.6	17382.7
75°	405.3	345.3	360.3	713.1	4197.9	4428.7	3907.0	17517.8	17797.4	13821.0	8803.0
77.5°	279.6	244.0	251.5	315.3	1598.8	4366.8	3103.9	9135.2	8836.8	4847.2	1874.7
80°	159.5	140.7	150.1	275.9	581.7	4074.0	2927.5	3704.4	3158.3	821.9	517.9
82.5°	84.4	71.3	86.3	227.1	405.3	2539.0	2933.1	1790.3	1418.7	277.7	352.8
85°	30.0	24.4	41.3	155.8	270.2	778.8	2719.2	1505.0	1182.2	135.1	268.4
87.5°	5.6	5.6	16.9	63.8	108.8	238.3	1608.2	893.3	598.6	80.7	183.9
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°	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3	7095.3
2.5°	7072.8	6992.1	6883.3	6750.0	6592.4	6453.5	6350.3	6243.4	6220.9	6183.3	6177.7
5°	7025.9	6887.0	6616.8	6307.2	5976.9	5678.5	5436.4	5220.6	5124.9	5042.4	5033.0
7.5°	6956.5	6748.2	6288.4	5789.2	5273.2	4804.0	4406.2	4124.7	3865.7	3741.9	3723.1
10°	6875.8	6577.4	5918.7	5226.3	4513.2	3850.7	3259.6	2764.2	2463.9	2285.7	2263.2
12.5°	6800.7	6410.4	5541.5	4642.6	3695.0	2809.2	2049.2	1576.3	1261.1	1133.5	1118.4
15°	6765.1	6275.3	5188.7	4045.9	2839.3	1788.4	1120.3	867.0	763.8	733.7	731.9
17.5°	6761.3	6160.8	4843.4	3428.5	1989.2	1039.6	730.0	666.2	645.5	638.0	638.0
20°	6759.4	6052.0	4498.2	2788.6	1262.9	692.5	608.0	593.0	578.0	568.6	568.6
22.5°	6780.1	5954.4	4137.9	2135.5	795.7	561.1	534.8	519.8	501.0	487.9	486.0
25°	6800.7	5879.3	3770.0	1520.0	576.1	487.9	461.6	441.0	414.7	397.8	396.0
27.5°	6804.5	5785.5	3376.0	1017.1	482.3	426.0	392.2	360.3	330.3	313.4	311.5
30°	6748.2	5627.9	2938.7	686.8	426.0	369.7	324.6	290.9	262.7	249.6	249.6
32.5°	6637.5	5432.7	2458.3	517.9	379.1	317.1	268.4	236.4	217.7	212.1	210.2
35°	6538.0	5222.5	1964.8	439.1	339.7	268.4	219.6	198.9	187.7	185.8	183.9
37.5°	6479.8	5053.6	1501.3	397.8	302.1	225.2	185.8	170.8	165.1	161.4	163.3
40°	6524.9	4912.9	1109.1	364.1	264.6	187.7	157.6	150.1	144.5	142.6	142.6
42.5°	6721.9	4888.5	823.8	334.0	228.9	155.8	137.0	131.4	127.6	125.7	127.6
45°	7239.8	5038.6	639.9	305.9	193.3	131.4	116.3	114.5	112.6	112.6	112.6
47.5°	8018.6	5348.2	532.9	274.0	161.4	112.6	101.3	99.5	97.6	99.5	99.5
50°	9337.8	5915.0	476.7	242.1	133.2	95.7	86.3	86.3	86.3	86.3	88.2
52.5°	11343.9	7029.7	439.1	210.2	108.8	80.7	73.2	73.2	75.1	75.1	76.9
55°	13578.9	8508.4	405.3	178.3	92.0	67.6	60.1	61.9	63.8	65.7	65.7
57.5°	16003.4	10146.6	377.2	146.4	78.8	54.4	50.7	52.5	54.4	58.2	58.2
60°	18929.0	11920.0	335.9	114.5	65.7	43.2	39.4	43.2	48.8	52.5	54.4
62.5°	22141.7	13635.2	283.4	90.1	54.4	33.8	31.9	39.4	46.9	50.7	52.5
65°	24337.3	14173.8	217.7	73.2	41.3	24.4	26.3	35.7	45.0	50.7	50.7
67°	23447.8	12850.8	178.3	61.9	33.8	18.8	24.4	35.7	45.0	48.8	50.7
67.5°	22830.4	12332.9	170.8	60.1	31.9	18.8	24.4	35.7	45.0	50.7	50.7
70°	18576.2	9264.7	142.6	45.0	26.3	16.9	20.6	33.8	43.2	48.8	48.8
72.5°	12907.1	5712.3	127.6	31.9	22.5	15.0	18.8	31.9	41.3	46.9	48.8
75°	6136.4	2068.0	108.8	24.4	20.6	13.1	16.9	31.9	41.3	46.9	46.9
77.5°	1251.7	480.4	88.2	20.6	16.9	13.1	15.0	30.0	39.4	45.0	45.0
80°	411.0	185.8	65.7	18.8	16.9	13.1	15.0	28.1	39.4	43.2	45.0
82.5°	296.5	93.8	43.2	18.8	16.9	13.1	13.1	28.1	37.5	43.2	43.2
85°	227.1	65.7	28.1	18.8	16.9	13.1	13.1	26.3	35.7	41.3	41.3
87.5°	150.1	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)