

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: P193658

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27061 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - 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

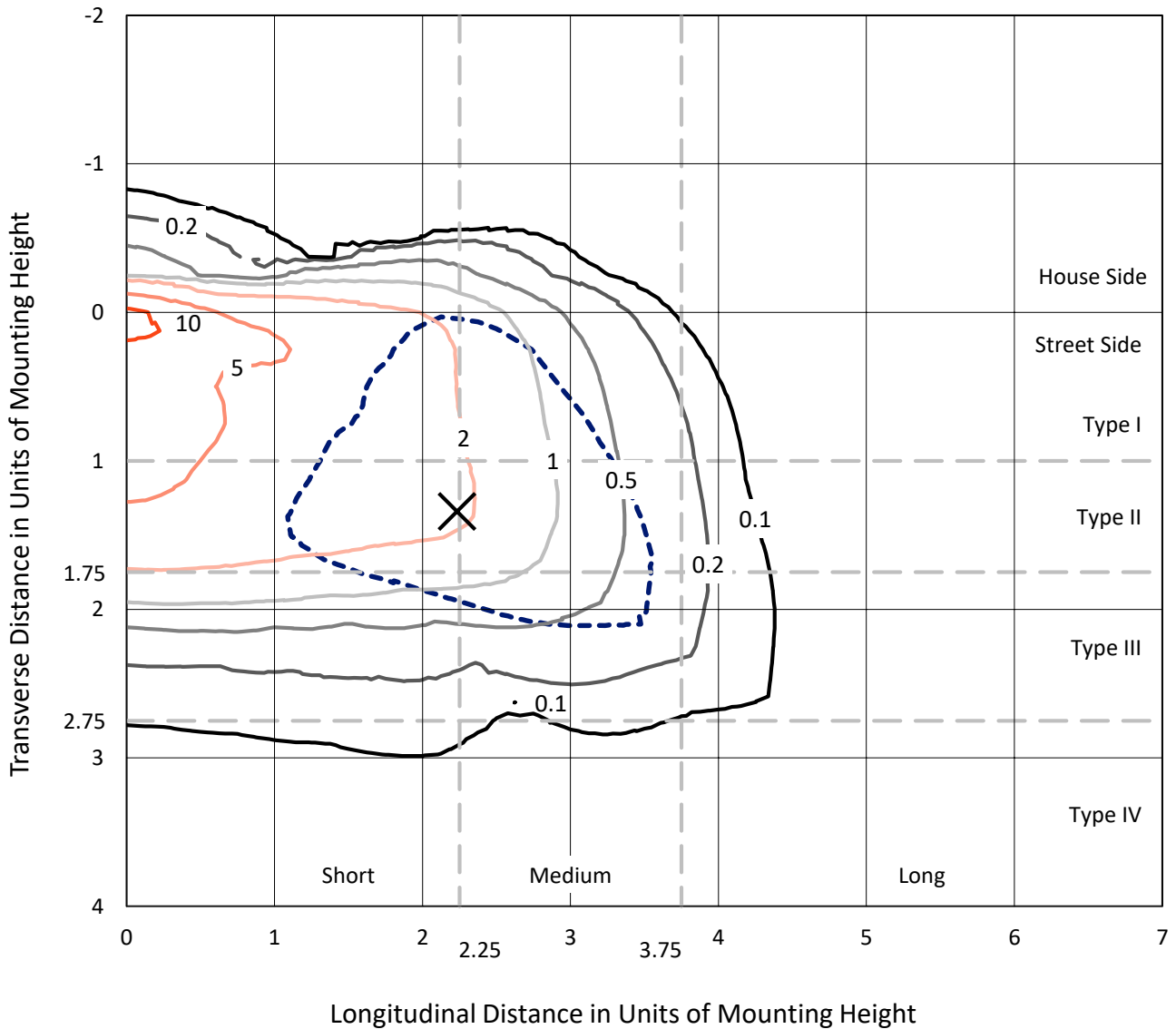


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

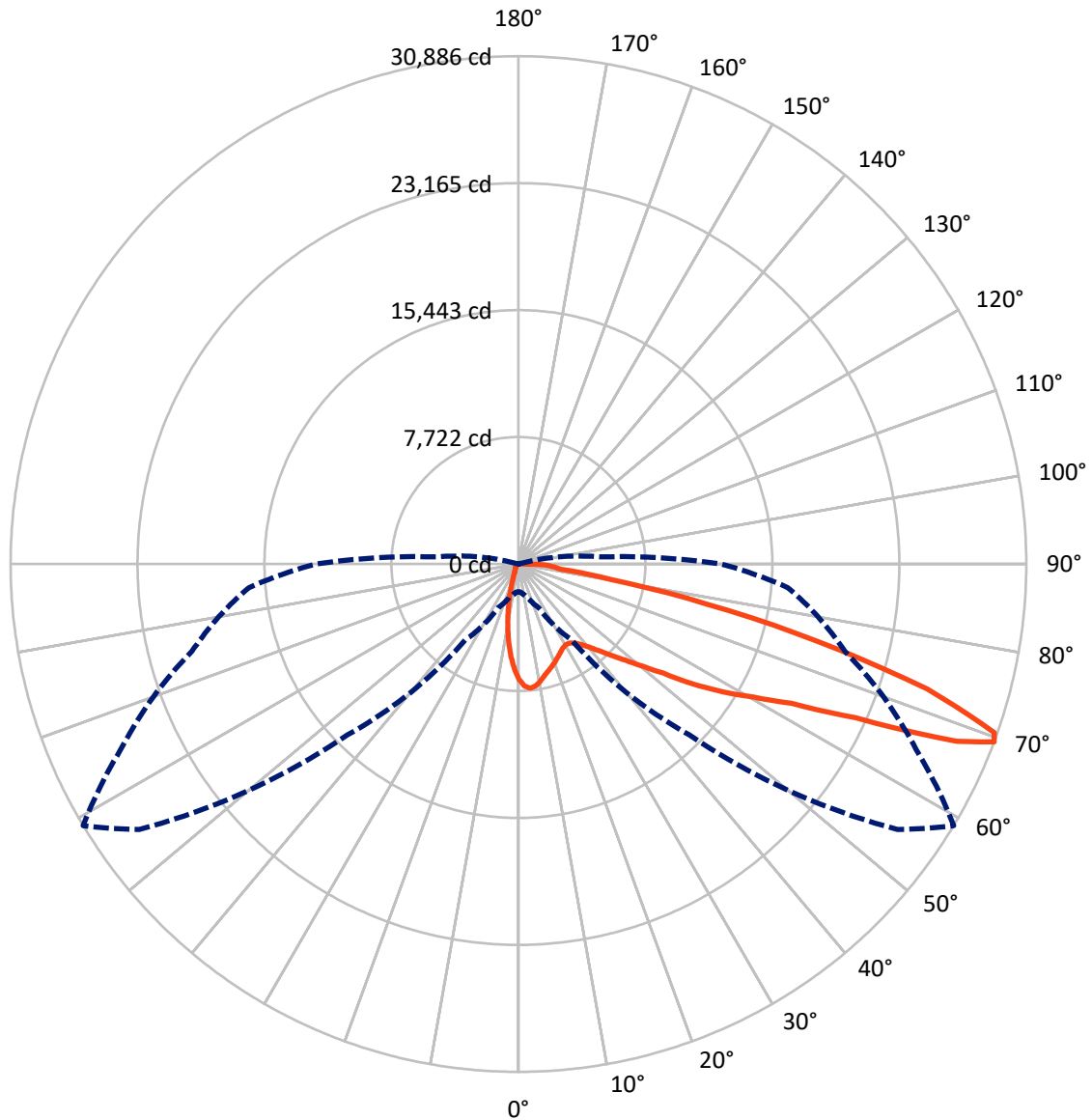


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.8	0.0	2203.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	24857.2	0.0	24857.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	27061.0	0.0	27061.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.7	2.1
10°-20°	1181.4	4.4
20°-30°	1589.7	5.9
30°-40°	2308.1	8.5
40°-50°	3843.1	14.2
50°-60°	5995.2	22.2
60°-70°	7418.7	27.4
70°-80°	3759.7	13.9
80°-90°	393.4	1.5
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°	27061.0	100.0
0°-180°	27061.0	100.0



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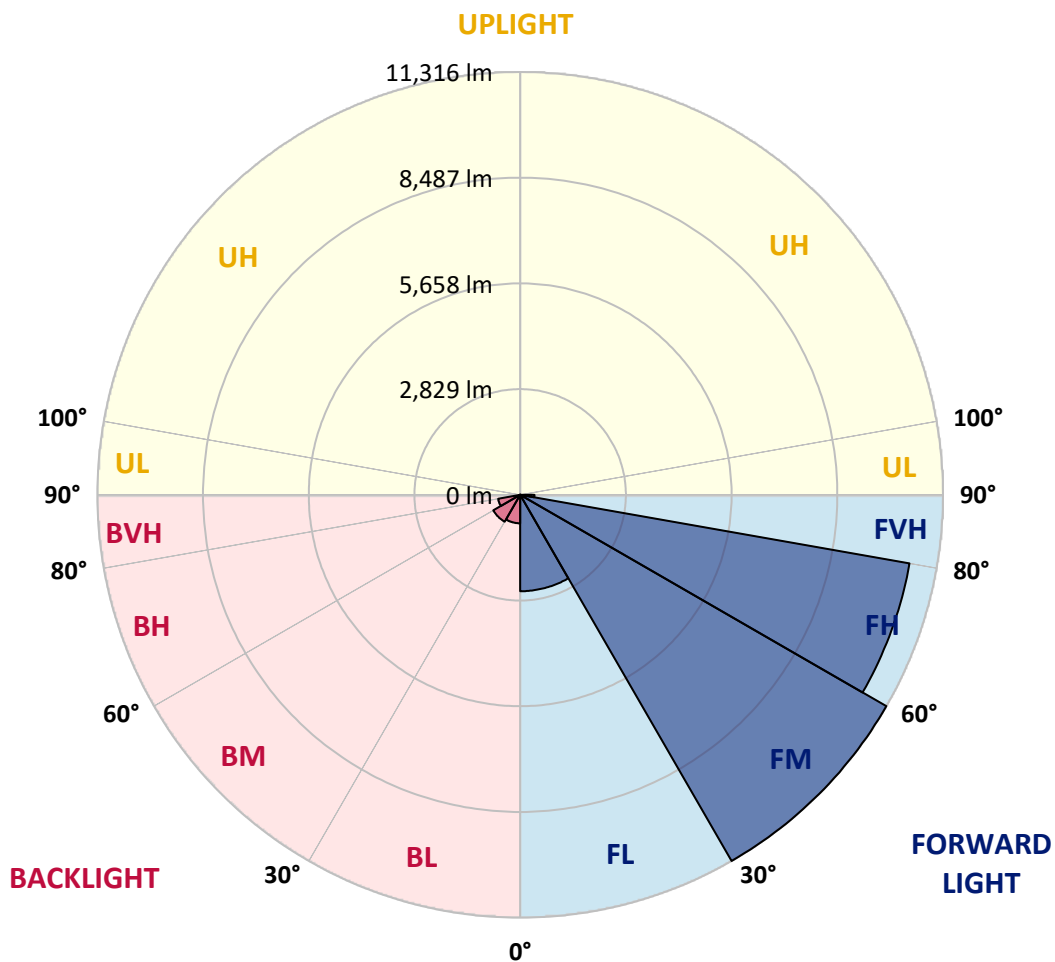
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2580.0	9.5			
FM	(30°-60°)	11316.1	41.8			
FH	(60°-80°)	10579.9	39.1			G4/12000
FVH	(80°-90°)	381.3	1.4			G3/500
BL	(0°-30°)	762.8	2.8	B2/1000		
BM	(30°-60°)	830.4	3.1	B1/1000		
BH	(60°-80°)	598.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.1	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6
2.5°	7720.0	7716.9	7683.2	7667.9	7640.4	7582.2	7492.0	7444.5	7368.0	7234.9	7055.8
5°	7649.6	7686.3	7706.2	7707.7	7727.6	7706.2	7625.1	7585.3	7479.7	7265.5	6944.1
7.5°	7172.1	7185.9	7242.5	7291.5	7386.4	7476.7	7505.7	7488.9	7426.2	7196.6	6769.7
10°	6661.0	6674.8	6742.2	6806.4	6935.0	7074.2	7221.1	7251.7	7277.7	7098.7	6601.4
12.5°	6220.3	6234.1	6303.0	6387.1	6537.1	6708.5	6936.5	6987.0	7101.8	7005.3	6466.7
15°	5840.9	5847.0	5914.3	6018.4	6197.4	6417.7	6676.4	6757.5	6933.4	6939.5	6348.9
17.5°	5518.0	5533.3	5574.6	5674.1	5869.9	6142.3	6443.8	6560.1	6766.6	6884.5	6234.1
20°	5320.6	5335.9	5334.3	5389.4	5565.4	5856.2	6211.2	6350.4	6601.4	6827.8	6131.6
22.5°	5282.3	5282.3	5242.5	5234.9	5338.9	5582.2	5969.4	6139.2	6452.9	6803.4	6059.7
25°	5418.5	5412.4	5312.9	5231.8	5236.4	5381.8	5735.3	5937.3	6327.5	6820.2	6021.4
27.5°	5706.2	5698.5	5573.1	5418.5	5294.6	5293.0	5557.8	5775.1	6228.0	6899.8	6036.7
30°	6104.0	6101.0	5964.8	5770.5	5545.5	5338.9	5496.6	5693.9	6163.7	7043.6	6071.9
32.5°	6538.6	6534.0	6431.5	6226.5	5941.8	5545.5	5560.8	5726.1	6182.1	7234.9	6157.6
35°	6999.2	6991.6	6947.2	6768.2	6454.5	5926.5	5772.0	5900.5	6298.4	7521.0	6325.9
37.5°	7498.1	7505.7	7537.9	7366.5	7037.5	6460.6	6125.5	6212.7	6532.5	7909.7	6599.8
40°	8234.1	8232.6	8243.3	8018.4	7701.6	7114.0	6619.7	6647.3	6924.2	8425.4	7016.1
42.5°	9570.0	9476.7	9193.6	8734.5	8416.2	7860.7	7242.5	7213.5	7403.2	9063.5	7599.1
45°	11364.9	11166.0	10431.5	9551.6	9144.6	8702.4	8009.2	7915.8	8036.7	9830.1	8318.3
47.5°	12908.9	12702.4	11663.3	10402.4	9917.4	9501.1	8907.4	8739.1	8778.9	10688.6	9230.3
50°	13433.8	13332.8	12425.4	11143.1	10665.6	10506.5	9949.5	9744.4	9687.8	11681.7	10287.7
52.5°	13251.7	13244.1	12639.6	11623.6	11351.2	11547.0	11260.9	11023.7	10815.6	12728.4	11363.4
55°	12959.4	12997.7	12726.8	12044.4	12035.2	12497.3	13054.3	12856.9	12254.0	13865.3	12290.7
57.5°	12153.0	12316.7	12677.9	12840.1	13216.5	13689.4	14547.8	14664.1	13951.0	14736.0	13060.4
60°	9860.7	10220.3	11401.7	12954.8	14739.1	15917.4	16350.4	16449.9	15343.5	15459.8	14099.5
62.5°	6999.2	7366.5	8864.6	11492.0	14762.0	18844.7	19035.9	18645.7	16876.8	16532.5	15891.3
65°	3715.4	3998.5	5222.6	8295.3	12798.8	19524.1	23732.2	22569.2	19582.2	18642.7	18206.6
67.5°	1900.5	1986.2	2472.8	4059.7	8798.8	17342.0	27941.8	28760.5	24244.8	20736.0	18094.9
69°	1681.7	1732.2	2055.1	2935.0	5634.3	14688.6	28146.9	30886.0	26685.5	20561.6	16443.7
70°	1628.2	1672.5	1966.3	2656.5	4404.0	12318.3	27361.9	30699.3	27309.8	19897.5	15210.4
72.5°	1381.8	1420.0	1750.6	2347.4	3579.2	6114.8	22226.5	26013.7	24506.5	16575.3	11009.9
75°	924.3	1049.7	1680.2	2200.5	3329.8	3473.6	14653.4	18798.8	17462.9	11179.8	5735.3
77.5°	221.9	238.7	474.4	1750.6	3045.1	3057.4	7536.3	11686.3	9531.7	3984.7	1355.8
80°	119.4	114.8	133.1	347.4	2835.5	2869.2	3392.5	5672.5	3403.2	661.1	446.8
82.5°	84.2	79.6	85.7	145.4	892.1	2613.6	2454.5	2567.7	1410.9	254.0	200.5
85°	30.6	29.1	47.4	131.6	280.0	1502.7	2521.8	2117.8	1143.1	116.3	146.9
87.5°	10.7	9.2	18.4	71.9	85.7	639.6	1556.2	1600.6	449.9	70.4	68.9
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°	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6
2.5°	6980.9	6886.0	6711.5	6532.5	6367.2	6168.3	6068.9	5970.9	5929.6	5914.3	5842.4
5°	6778.9	6618.2	6247.9	5876.0	5533.3	5169.1	4928.8	4736.0	4622.8	4567.7	4480.5
7.5°	6520.3	6257.1	5695.5	5121.6	4587.6	4061.2	3671.0	3371.1	3164.5	3065.0	2974.7
10°	6269.3	5918.9	5120.1	4338.2	3612.9	2915.1	2376.4	1986.2	1736.8	1622.0	1548.6
12.5°	6044.4	5589.9	4564.6	3574.6	2664.1	1847.0	1299.2	988.5	834.0	780.4	754.4
15°	5843.9	5286.9	4039.8	2849.3	1804.1	1055.9	710.0	604.4	580.0	580.0	576.9
17.5°	5654.2	4990.0	3533.3	2168.3	1132.4	645.8	540.2	526.4	526.4	532.5	532.5
20°	5472.1	4707.0	3043.6	1556.2	713.1	512.6	488.1	485.1	488.1	495.8	495.8
22.5°	5316.0	4449.9	2586.1	1068.1	529.5	462.1	449.9	445.3	446.8	451.4	454.5
25°	5199.7	4232.6	2154.6	723.8	456.0	420.8	407.0	399.4	393.3	393.3	396.3
27.5°	5126.2	4049.0	1736.8	526.4	410.1	382.6	361.1	348.9	335.1	327.5	330.5
30°	5072.7	3874.5	1345.1	430.0	367.3	339.7	312.2	292.3	272.4	263.2	266.3
32.5°	5052.8	3733.7	1005.4	379.5	329.0	298.4	264.7	238.7	217.3	209.6	211.2
35°	5106.3	3622.0	736.0	342.8	298.4	260.1	221.9	192.8	176.0	171.4	172.9
37.5°	5247.1	3562.4	550.9	312.2	270.8	228.0	185.2	157.6	146.9	146.9	148.4
40°	5513.4	3560.8	442.2	290.7	246.4	197.4	153.0	133.1	127.0	130.1	131.6
42.5°	5902.1	3641.9	385.6	270.8	224.9	168.3	127.0	113.2	111.7	114.8	116.3
45°	6433.0	3790.4	355.0	254.0	202.0	140.8	107.1	97.9	97.9	102.5	104.1
47.5°	7083.4	4007.6	329.0	237.2	179.0	117.8	91.8	85.7	87.2	91.8	93.3
50°	7866.9	4281.6	303.0	218.8	162.2	97.9	79.6	75.0	76.5	82.6	84.2
52.5°	8759.0	4650.3	281.6	202.0	140.8	81.1	67.3	64.3	67.3	73.5	75.0
55°	9524.1	4980.9	255.5	188.2	113.2	67.3	55.1	55.1	58.1	65.8	67.3
57.5°	10260.1	5326.7	232.6	162.2	88.8	53.6	45.9	47.4	52.0	59.7	61.2
60°	11340.5	5912.8	205.0	136.2	67.3	42.8	38.3	39.8	45.9	53.6	55.1
62.5°	13175.2	6804.9	177.5	113.2	52.0	33.7	30.6	33.7	41.3	50.5	52.0
65°	14830.9	7167.6	145.4	94.9	39.8	26.0	26.0	30.6	39.8	49.0	50.5
67.5°	13908.2	6033.7	113.2	75.0	30.6	19.9	21.4	29.1	38.3	49.0	50.5
69°	12299.9	4933.4	96.4	59.7	26.0	18.4	19.9	29.1	38.3	47.4	49.0
70°	11046.7	4165.3	85.7	50.5	23.0	18.4	19.9	27.5	38.3	47.4	49.0
72.5°	7398.6	2249.4	68.9	36.7	21.4	16.8	16.8	27.5	36.7	45.9	47.4
75°	3179.8	621.3	55.1	26.0	18.4	15.3	15.3	26.0	35.2	44.4	47.4
77.5°	581.5	157.6	44.4	23.0	18.4	15.3	13.8	24.5	33.7	42.8	44.4
80°	231.1	78.0	35.2	19.9	16.8	13.8	12.2	23.0	32.1	41.3	42.8
82.5°	139.3	44.4	29.1	18.4	16.8	12.2	10.7	19.9	30.6	39.8	41.3
85°	113.2	30.6	23.0	18.4	15.3	12.2	9.2	18.4	27.5	38.3	39.8
87.5°	55.1	21.4	21.4	16.8	15.3	12.2	9.2	16.8	26.0	36.7	38.3
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)