

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: P269557

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269557
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-08-LED-E1-SL3-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 28608.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

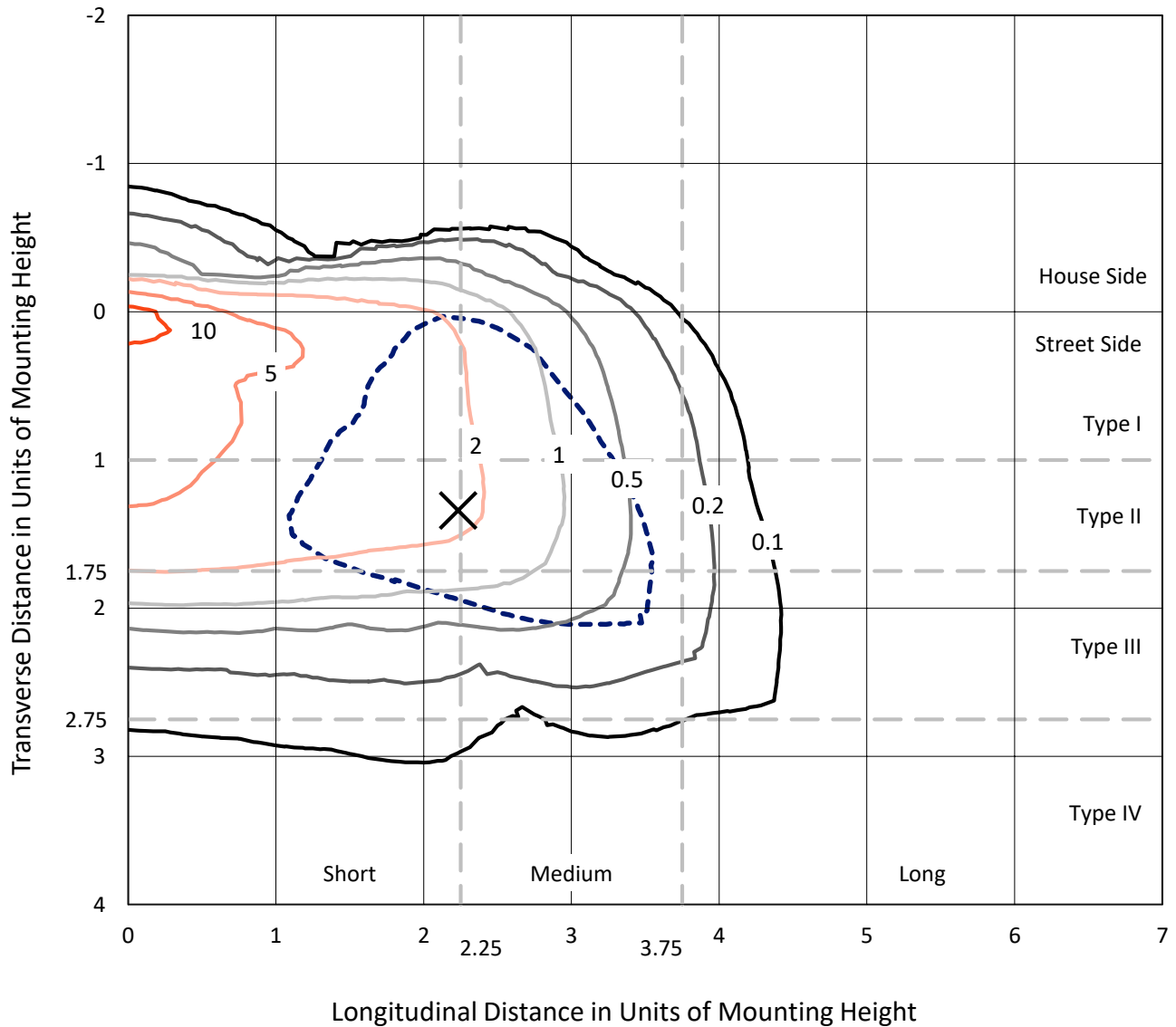


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

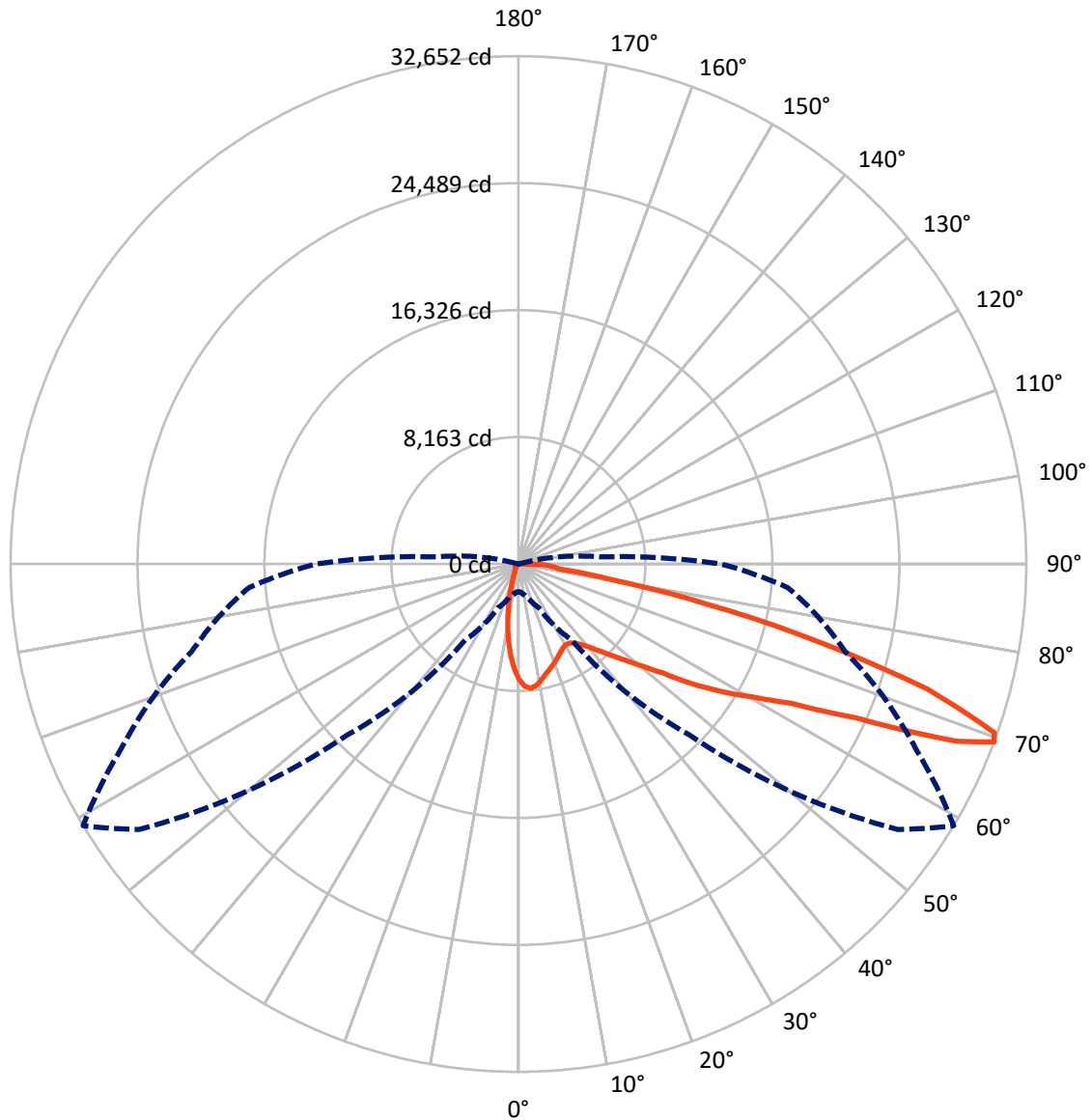


Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - Non-Cutoff

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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	2329.8	0.0	2329.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	26278.5	0.0	26278.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	28608.2	0.0	28608.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.4	2.1
10°-20°	1248.9	4.4
20°-30°	1680.6	5.9
30°-40°	2440.1	8.5
40°-50°	4062.9	14.2
50°-60°	6338.0	22.2
60°-70°	7842.8	27.4
70°-80°	3974.7	13.9
80°-90°	415.9	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°	28608.2	100.0
0°-180°	28608.2	100.0



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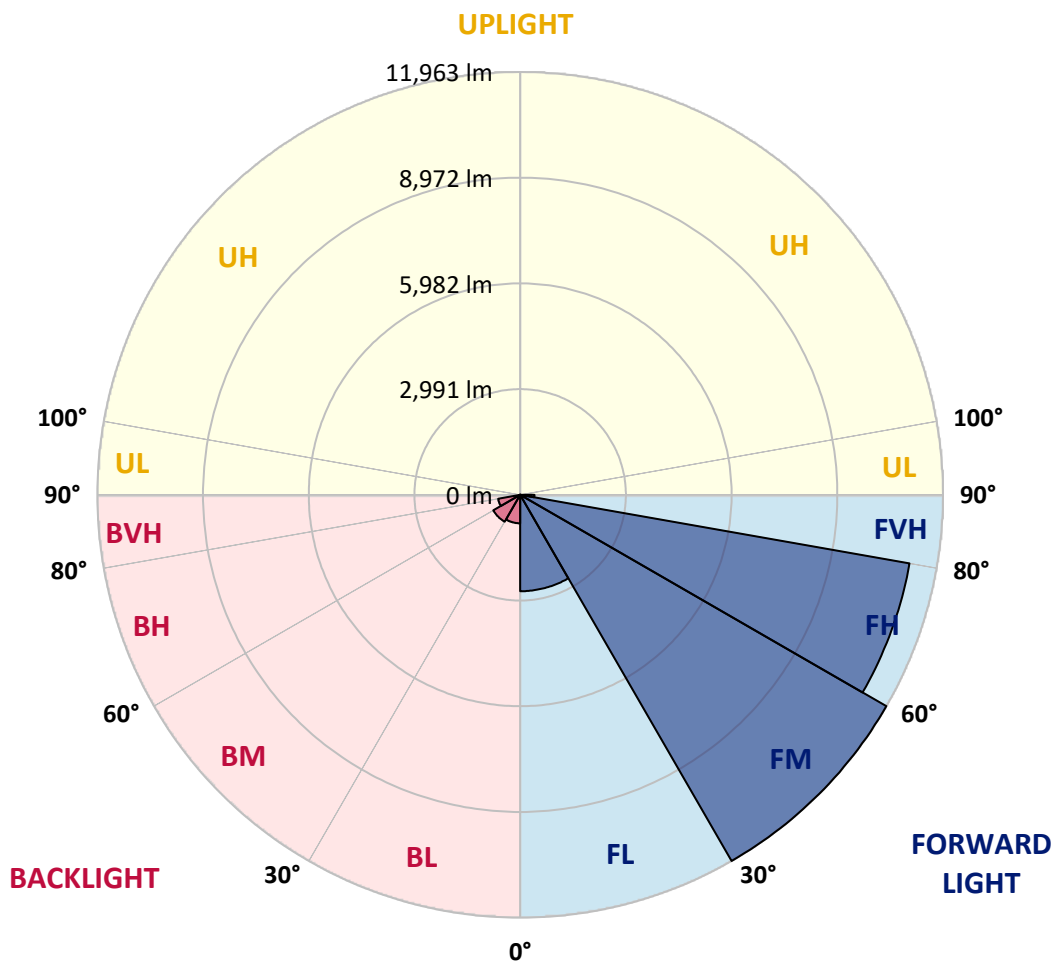
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2727.5	9.5			
FM (30°-60°)	11963.1	41.8			
FH (60°-80°)	11184.8	39.1			G4/12000
FVH (80°-90°)	403.1	1.4			G3/500
BL (0°-30°)	806.4	2.8	B2/1000		
BM (30°-60°)	877.8	3.1	B1/1000		
BH (60°-80°)	632.7	2.2	B2/1000		G2/1000
BVH (80°-90°)	12.8	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°	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3
2.5°	8161.3	8158.0	8122.6	8106.3	8077.2	8015.8	7920.4	7870.2	7789.3	7648.6	7459.3
5°	8086.9	8125.8	8146.8	8148.4	8169.5	8146.8	8061.1	8019.0	7907.4	7680.9	7341.2
7.5°	7582.2	7596.7	7656.7	7708.4	7808.6	7904.1	7934.9	7917.1	7850.7	7608.0	7156.7
10°	7042.0	7056.5	7127.6	7195.6	7331.4	7478.7	7633.9	7666.3	7693.9	7504.6	6978.8
12.5°	6576.0	6590.5	6663.4	6752.3	6910.9	7092.1	7333.0	7386.5	7507.9	7405.8	6836.5
15°	6174.8	6181.2	6252.5	6362.4	6551.7	6784.7	7058.1	7143.9	7329.8	7336.3	6711.9
17.5°	5833.5	5849.7	5893.3	5998.5	6205.5	6493.5	6812.1	6935.2	7153.6	7278.1	6590.5
20°	5624.7	5640.9	5639.3	5697.6	5883.5	6190.9	6566.3	6713.6	6978.8	7218.2	6482.2
22.5°	5584.4	5584.4	5542.3	5534.2	5644.2	5901.4	6310.8	6490.3	6821.9	7192.3	6406.2
25°	5728.3	5721.8	5616.7	5531.0	5535.9	5689.4	6063.2	6276.6	6689.1	7210.2	6365.7
27.5°	6032.5	6024.4	5891.8	5728.3	5597.2	5595.6	5875.5	6105.2	6584.0	7294.2	6381.9
30°	6453.1	6449.8	6305.8	6100.4	5862.6	5644.2	5810.9	6019.5	6516.1	7446.3	6419.1
32.5°	6912.5	6907.6	6799.2	6582.5	6281.6	5862.6	5878.8	6053.5	6535.6	7648.6	6509.7
35°	7399.3	7391.3	7344.5	7155.1	6823.5	6265.4	6101.9	6237.9	6658.4	7951.1	6687.6
37.5°	7926.7	7934.9	7968.9	7787.6	7439.9	6830.0	6475.7	6567.9	6906.0	8362.0	6977.1
40°	8704.8	8703.3	8714.5	8476.8	8142.0	7520.7	6998.2	7027.4	7320.2	8907.1	7417.2
42.5°	10117.3	10018.4	9719.2	9233.9	8897.4	8310.2	7656.7	7625.9	7826.6	9581.7	8033.5
45°	12014.7	11804.4	11028.0	10097.8	9667.4	9199.9	8467.2	8368.4	8496.2	10392.2	8793.9
47.5°	13647.1	13428.7	12330.1	10997.2	10484.4	10044.4	9416.8	9238.8	9280.7	11299.7	9758.0
50°	14201.8	14095.1	13135.8	11780.2	11275.4	11107.3	10518.3	10301.7	10241.8	12349.5	10875.9
52.5°	14009.3	14001.3	13362.3	12288.2	12000.2	12207.2	11904.8	11654.0	11433.9	13456.2	12013.2
55°	13700.4	13740.8	13454.5	12733.0	12723.4	13211.8	13800.8	13592.1	12954.6	14658.1	12993.4
57.5°	12847.9	13020.9	13402.7	13574.2	13972.1	14472.1	15379.6	15502.5	14748.7	15578.5	13807.2
60°	10424.6	10804.8	12053.5	13695.5	15581.8	16827.4	17285.2	17390.4	16220.8	16343.8	14905.5
62.5°	7399.3	7787.6	9371.4	12148.9	15606.1	19922.2	20124.3	19711.8	17841.7	17477.8	16799.9
65°	3927.7	4227.1	5521.3	8769.7	13530.5	20640.4	25089.1	23859.6	20701.9	19708.5	19247.5
67.5°	2009.1	2099.8	2614.2	4291.8	9301.8	18333.5	29539.4	30404.9	25631.0	21921.6	19129.4
69°	1777.8	1831.3	2172.6	3102.7	5956.4	15528.5	29756.1	32652.0	28211.4	21737.1	17383.9
70°	1721.2	1768.1	2078.8	2808.3	4655.7	13022.5	28926.3	32454.5	28871.3	21035.2	16080.0
72.5°	1460.9	1501.2	1850.7	2481.6	3783.8	6464.4	23497.2	27501.2	25907.7	17523.1	11639.3
75°	977.0	1109.8	1776.3	2326.3	3520.2	3672.2	15491.2	19873.7	18461.2	11819.0	6063.2
77.5°	234.5	252.3	501.6	1850.7	3219.3	3232.2	7967.2	12354.5	10076.7	4212.5	1433.2
80°	126.2	121.4	140.8	367.1	2997.6	3033.1	3586.5	5996.8	3597.8	698.8	472.4
82.5°	89.0	84.1	90.5	153.7	943.1	2763.0	2594.8	2714.5	1491.5	268.6	211.9
85°	32.3	30.7	50.1	139.1	296.0	1588.7	2666.0	2238.9	1208.4	123.0	155.2
87.5°	11.3	9.7	19.5	76.0	90.5	676.2	1645.2	1692.1	475.7	74.4	72.9
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°	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3	7446.3
2.5°	7379.9	7279.8	7095.4	6906.0	6731.3	6520.9	6415.9	6312.3	6268.6	6252.5	6176.4
5°	7166.5	6996.5	6605.1	6212.0	5849.7	5464.6	5210.7	5006.9	4887.0	4828.8	4736.7
7.5°	6893.1	6614.8	6021.1	5414.4	4849.9	4293.4	3880.9	3563.8	3345.4	3240.2	3144.8
10°	6627.8	6257.4	5412.8	4586.1	3819.5	3081.7	2512.3	2099.8	1836.0	1714.8	1637.2
12.5°	6390.0	5909.5	4825.6	3779.0	2816.5	1952.6	1373.5	1045.1	881.6	825.1	797.5
15°	6178.1	5589.2	4270.7	3012.1	1907.3	1116.2	750.7	639.1	613.2	613.2	609.9
17.5°	5977.4	5275.3	3735.3	2292.3	1197.1	682.7	571.1	556.5	556.5	563.0	563.0
20°	5784.9	4976.2	3217.5	1645.2	753.9	541.9	516.0	512.8	516.0	524.2	524.2
22.5°	5619.9	4704.3	2733.9	1129.2	559.7	488.6	475.7	470.7	472.4	477.2	480.5
25°	5497.0	4474.5	2277.7	765.1	482.1	444.9	430.3	422.3	415.7	415.7	419.0
27.5°	5419.4	4280.5	1836.0	556.5	433.5	404.4	381.8	368.8	354.3	346.1	349.4
30°	5362.7	4096.0	1421.9	454.6	388.2	359.1	329.9	308.9	287.9	278.3	281.4
32.5°	5341.7	3947.2	1062.9	401.3	347.9	315.5	279.8	252.3	229.6	221.6	223.3
35°	5398.4	3829.1	778.1	362.3	315.5	275.1	234.5	203.8	185.9	181.2	182.8
37.5°	5547.2	3766.1	582.5	329.9	286.3	241.0	195.7	166.6	155.2	155.2	156.9
40°	5828.7	3764.3	467.5	307.4	260.5	208.6	161.8	140.8	134.2	137.5	139.1
42.5°	6239.4	3850.1	407.7	286.3	237.8	178.0	134.2	119.7	118.0	121.4	123.0
45°	6800.9	4007.1	375.3	268.6	213.5	148.8	113.2	103.6	103.6	108.3	110.0
47.5°	7488.5	4236.8	347.9	250.7	189.3	124.5	97.0	90.5	92.2	97.0	98.6
50°	8316.7	4526.4	320.3	231.4	171.4	103.6	84.1	79.3	80.8	87.3	89.0
52.5°	9259.8	4916.2	297.7	213.5	148.8	85.8	71.1	67.9	71.1	77.7	79.3
55°	10068.7	5265.7	270.2	199.0	119.7	71.1	58.2	58.2	61.4	69.6	71.1
57.5°	10846.8	5631.2	245.9	171.4	93.9	56.7	48.5	50.1	54.9	63.2	64.7
60°	11988.9	6250.9	216.9	144.0	71.1	45.4	40.5	42.1	48.5	56.7	58.2
62.5°	13928.5	7193.9	187.7	119.7	54.9	35.7	32.3	35.7	43.7	53.4	54.9
65°	15678.8	7577.4	153.7	100.3	42.1	27.5	27.5	32.3	42.1	51.7	53.4
67.5°	14703.4	6378.7	119.7	79.3	32.3	21.0	22.6	30.7	40.5	51.7	53.4
69°	13003.1	5215.5	101.9	63.2	27.5	19.5	21.0	30.7	40.5	50.1	51.7
70°	11678.2	4403.4	90.5	53.4	24.3	19.5	21.0	29.1	40.5	50.1	51.7
72.5°	7821.6	2378.1	72.9	38.8	22.6	17.7	17.7	29.1	38.8	48.5	50.1
75°	3361.5	656.8	58.2	27.5	19.5	16.2	16.2	27.5	37.2	46.9	50.1
77.5°	614.7	166.6	46.9	24.3	19.5	16.2	14.6	26.0	35.7	45.4	46.9
80°	244.2	82.6	37.2	21.0	17.7	14.6	12.9	24.3	34.0	43.7	45.4
82.5°	147.2	46.9	30.7	19.5	17.7	12.9	11.3	21.0	32.3	42.1	43.7
85°	119.7	32.3	24.3	19.5	16.2	12.9	9.7	19.5	29.1	40.5	42.1
87.5°	58.2	22.6	22.6	17.7	16.2	12.9	9.7	17.7	27.5	38.8	40.5
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)