

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: P193665

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193665
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-07-LED-E1-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 23714 lumens
Efficiency: N/A
Efficacy: 80.4 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): 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

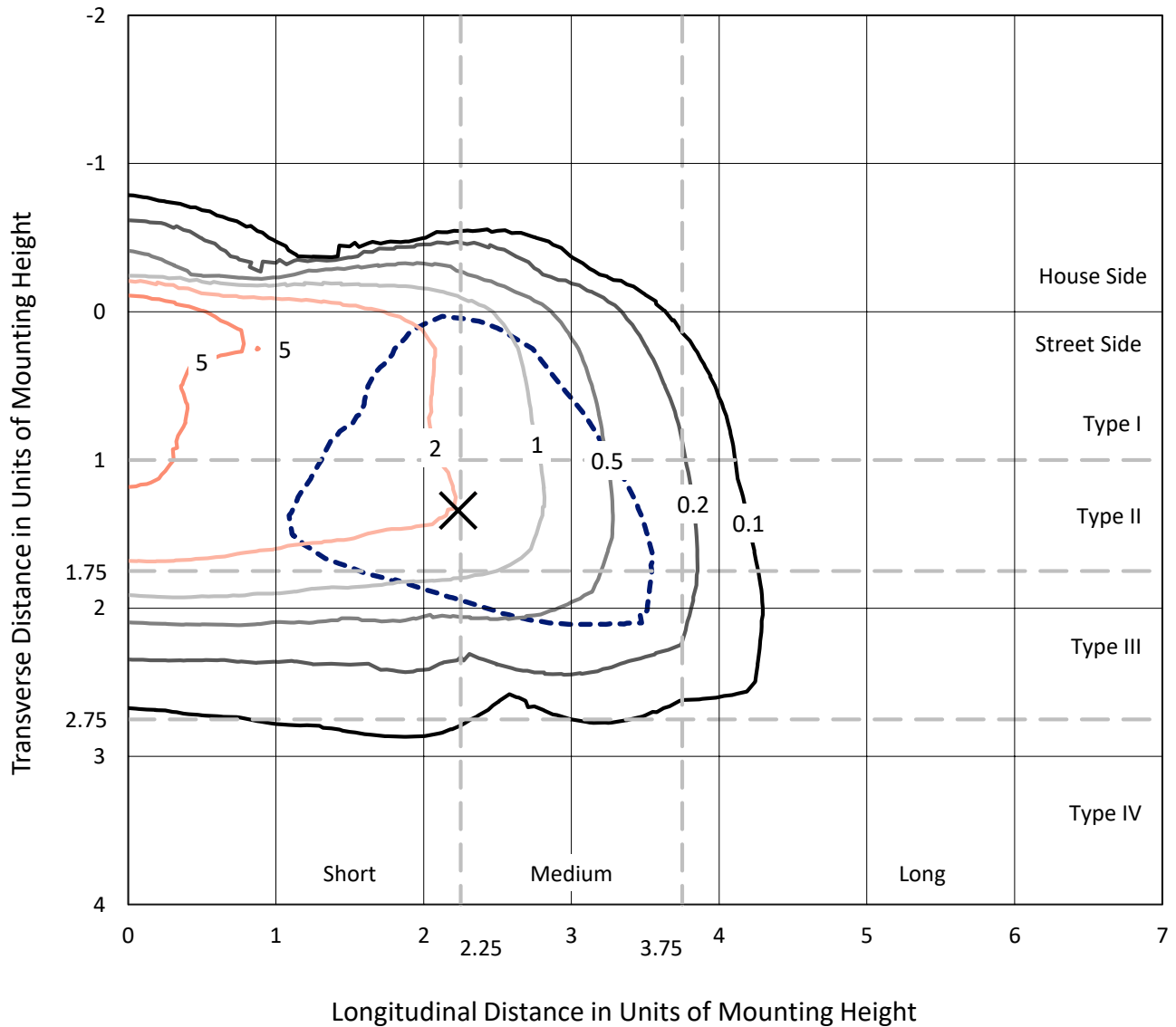


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

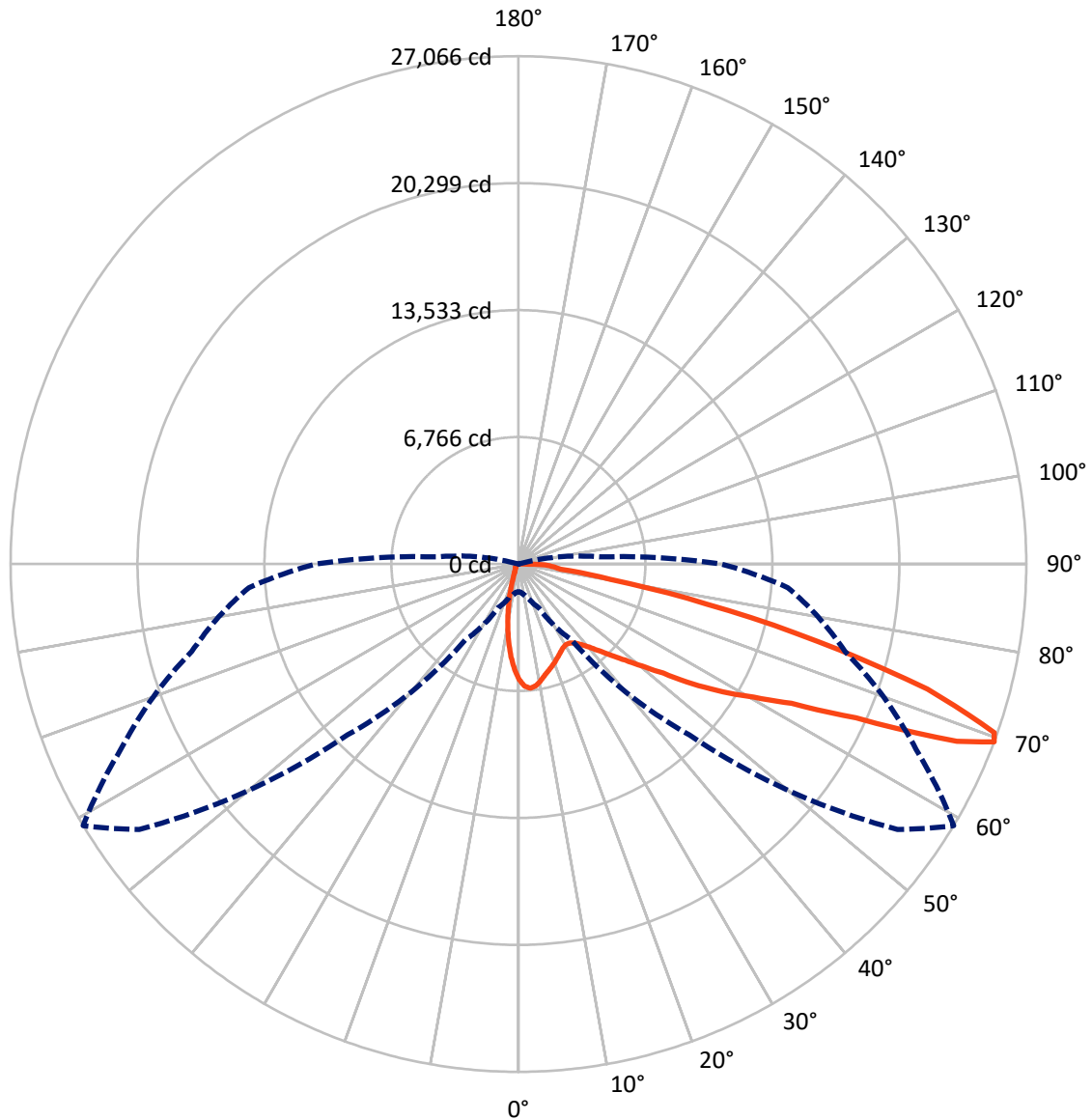


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Non-Cutoff

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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	1931.2	0.0	1931.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	21782.8	0.0	21782.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	23714.0	0.0	23714.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.0	2.1
10°-20°	1035.2	4.4
20°-30°	1393.1	5.9
30°-40°	2022.6	8.5
40°-50°	3367.8	14.2
50°-60°	5253.7	22.2
60°-70°	6501.1	27.4
70°-80°	3294.7	13.9
80°-90°	344.7	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°	23714.0	100.0
0°-180°	23714.0	100.0



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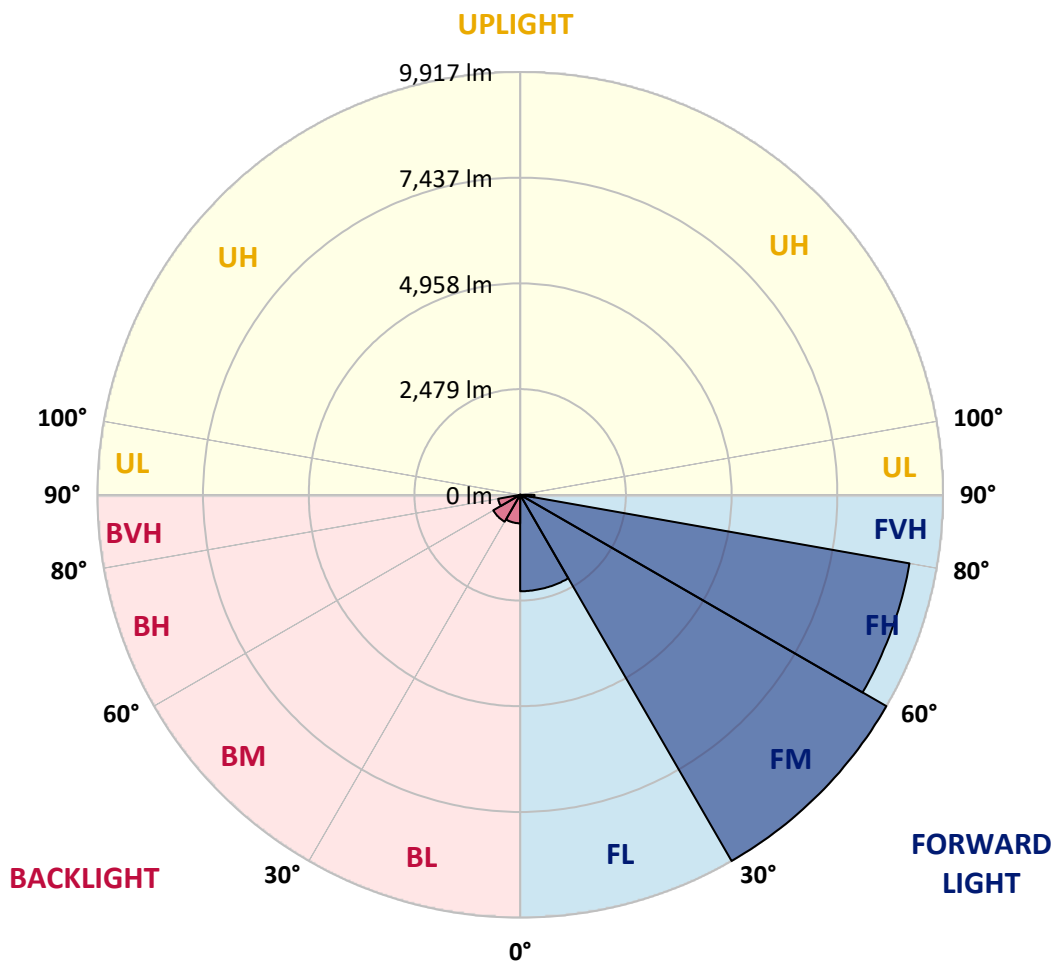
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2260.9	9.5			
FM	(30°-60°)	9916.5	41.8			
FH	(60°-80°)	9271.3	39.1			G4/12000
FVH	(80°-90°)	334.1	1.4			G3/500
BL	(0°-30°)	668.4	2.8	B2/1000		
BM	(30°-60°)	727.7	3.1	B1/1000		
BH	(60°-80°)	524.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.6	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°	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4
2.5°	6765.1	6762.4	6732.9	6719.5	6695.4	6644.4	6565.3	6523.8	6456.7	6340.0	6183.2
5°	6703.4	6735.6	6753.1	6754.4	6771.8	6753.1	6682.0	6647.1	6554.6	6366.9	6085.3
7.5°	6285.1	6297.1	6346.8	6389.7	6472.8	6551.9	6577.4	6562.6	6507.7	6306.5	5932.4
10°	5837.2	5849.3	5908.3	5964.6	6077.2	6199.2	6328.0	6354.8	6377.6	6220.7	5784.9
12.5°	5451.0	5463.1	5523.4	5597.2	5728.6	5878.8	6078.6	6122.8	6223.4	6138.9	5666.9
15°	5118.4	5123.8	5182.8	5274.0	5430.9	5624.0	5850.6	5921.7	6075.9	6081.2	5563.6
17.5°	4835.5	4848.9	4885.1	4972.3	5143.9	5382.6	5646.8	5748.7	5929.7	6033.0	5463.1
20°	4662.5	4675.9	4674.6	4722.9	4877.1	5131.8	5442.9	5565.0	5784.9	5983.4	5373.2
22.5°	4629.0	4629.0	4594.1	4587.4	4678.6	4891.8	5231.1	5379.9	5654.8	5961.9	5310.2
25°	4748.3	4743.0	4655.8	4584.7	4588.8	4716.1	5025.9	5202.9	5544.9	5976.6	5276.7
27.5°	5000.4	4993.7	4883.8	4748.3	4639.7	4638.4	4870.4	5060.8	5457.7	6046.4	5290.1
30°	5349.1	5346.4	5227.1	5056.7	4859.6	4678.6	4816.7	4989.7	5401.4	6172.4	5320.9
32.5°	5729.9	5725.9	5636.0	5456.4	5206.9	4859.6	4873.0	5017.9	5417.5	6340.0	5396.0
35°	6133.5	6126.8	6087.9	5931.1	5656.2	5193.5	5058.1	5170.7	5519.4	6590.8	5543.5
37.5°	6570.7	6577.4	6605.6	6455.4	6167.1	5661.5	5367.9	5444.3	5724.5	6931.4	5783.5
40°	7215.7	7214.4	7223.7	7026.6	6749.0	6234.1	5801.0	5825.1	6067.8	7383.3	6148.3
42.5°	8386.3	8304.5	8056.5	7654.2	7375.3	6888.5	6346.8	6321.3	6487.6	7942.5	6659.2
45°	9959.3	9785.0	9141.3	8370.3	8013.6	7626.0	7018.6	6936.8	7042.7	8614.3	7289.4
47.5°	11312.3	11131.3	10220.8	9115.8	8690.7	8326.0	7805.7	7658.2	7693.1	9366.6	8088.7
50°	11772.3	11683.8	10888.6	9764.9	9346.5	9207.0	8718.9	8539.2	8489.6	10236.9	9015.3
52.5°	11612.7	11606.0	11076.3	10185.9	9947.2	10118.9	9868.1	9660.3	9477.9	11154.1	9957.9
55°	11356.6	11390.1	11152.7	10554.7	10546.6	10951.6	11439.7	11266.7	10738.4	12150.4	10770.6
57.5°	10649.9	10793.4	11109.8	11252.0	11581.8	11996.2	12748.5	12850.4	12225.5	12913.4	11445.1
60°	8641.1	8956.3	9991.5	11352.5	12916.1	13948.6	14328.1	14415.3	13445.8	13547.7	12355.6
62.5°	6133.5	6455.4	7768.2	10070.6	12936.2	16513.9	16681.5	16339.6	14789.4	14487.7	13925.8
65°	3255.8	3503.9	4576.7	7269.3	11215.8	17109.3	20796.9	19777.8	17160.2	16336.9	15954.7
67.5°	1665.5	1740.6	2167.0	3557.6	7710.5	15197.1	24485.9	25203.3	21246.1	18171.3	15856.8
69°	1473.7	1518.0	1800.9	2572.0	4937.4	12871.8	24665.6	27065.9	23385.0	18018.4	14409.9
70°	1426.8	1465.7	1723.1	2327.9	3859.3	10794.7	23977.7	26902.3	23932.1	17436.5	13329.1
72.5°	1210.9	1244.4	1534.1	2057.0	3136.5	5358.5	19477.4	22796.3	21475.4	14525.2	9648.2
75°	809.9	919.9	1472.4	1928.3	2917.9	3044.0	12841.0	16473.7	15303.0	9797.0	5025.9
77.5°	194.4	209.2	415.7	1534.1	2668.5	2679.2	6604.2	10240.9	8352.8	3491.9	1188.1
80°	104.6	100.6	116.7	304.4	2484.8	2514.3	2972.9	4970.9	2982.3	579.3	391.6
82.5°	73.8	69.7	75.1	127.4	781.8	2290.4	2150.9	2250.1	1236.4	222.6	175.7
85°	26.8	25.5	41.6	115.3	245.4	1316.8	2209.9	1855.9	1001.7	101.9	128.7
87.5°	9.4	8.0	16.1	63.0	75.1	560.5	1363.8	1402.6	394.2	61.7	60.3
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°	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4	6172.4
2.5°	6117.4	6034.3	5881.4	5724.5	5579.7	5405.4	5318.2	5232.4	5196.2	5182.8	5119.8
5°	5940.4	5799.6	5475.1	5149.3	4848.9	4529.8	4319.2	4150.3	4051.0	4002.8	3926.3
7.5°	5713.8	5483.2	4991.0	4488.2	4020.2	3558.9	3217.0	2954.1	2773.1	2685.9	2606.8
10°	5493.9	5186.8	4486.8	3801.6	3166.0	2554.5	2082.5	1740.6	1522.0	1421.4	1357.0
12.5°	5296.8	4898.5	4000.1	3132.5	2334.6	1618.5	1138.5	866.3	730.8	683.9	661.1
15°	5121.1	4633.0	3540.1	2496.9	1581.0	925.3	622.2	529.7	508.2	508.2	505.5
17.5°	4954.8	4372.9	3096.3	1900.1	992.3	565.9	473.4	461.3	461.3	466.7	466.7
20°	4795.3	4124.8	2667.2	1363.8	624.9	449.2	427.8	425.1	427.8	434.5	434.5
22.5°	4658.5	3899.5	2266.2	936.0	464.0	405.0	394.2	390.2	391.6	395.6	398.3
25°	4556.6	3709.1	1888.1	634.3	399.6	368.8	356.7	350.0	344.6	344.6	347.3
27.5°	4492.2	3548.2	1522.0	461.3	359.4	335.2	316.5	305.7	293.7	287.0	289.6
30°	4445.3	3395.3	1178.7	376.8	321.8	297.7	273.6	256.1	238.7	230.6	233.3
32.5°	4427.8	3271.9	881.0	332.6	288.3	261.5	232.0	209.2	190.4	183.7	185.1
35°	4474.8	3174.0	645.0	300.4	261.5	228.0	194.4	169.0	154.2	150.2	151.5
37.5°	4598.1	3121.7	482.7	273.6	237.3	199.8	162.3	138.1	128.7	128.7	130.1
40°	4831.5	3120.4	387.5	254.8	215.9	173.0	134.1	116.7	111.3	114.0	115.3
42.5°	5172.1	3191.5	337.9	237.3	197.1	147.5	111.3	99.2	97.9	100.6	101.9
45°	5637.4	3321.6	311.1	222.6	177.0	123.4	93.9	85.8	85.8	89.8	91.2
47.5°	6207.3	3512.0	288.3	207.8	156.9	103.3	80.5	75.1	76.4	80.5	81.8
50°	6893.9	3752.0	265.5	191.8	142.1	85.8	69.7	65.7	67.0	72.4	73.8
52.5°	7675.6	4075.2	246.7	177.0	123.4	71.1	59.0	56.3	59.0	64.4	65.7
55°	8346.1	4364.8	223.9	164.9	99.2	59.0	48.3	48.3	51.0	57.7	59.0
57.5°	8991.1	4667.9	203.8	142.1	77.8	46.9	40.2	41.6	45.6	52.3	53.6
60°	9937.8	5181.5	179.7	119.3	59.0	37.5	33.5	34.9	40.2	46.9	48.3
62.5°	11545.6	5963.2	155.6	99.2	45.6	29.5	26.8	29.5	36.2	44.3	45.6
65°	12996.6	6281.0	127.4	83.1	34.9	22.8	22.8	26.8	34.9	42.9	44.3
67.5°	12188.0	5287.4	99.2	65.7	26.8	17.4	18.8	25.5	33.5	42.9	44.3
69°	10778.6	4323.2	84.5	52.3	22.8	16.1	17.4	25.5	33.5	41.6	42.9
70°	9680.4	3650.1	75.1	44.3	20.1	16.1	17.4	24.1	33.5	41.6	42.9
72.5°	6483.5	1971.2	60.3	32.2	18.8	14.8	14.8	24.1	32.2	40.2	41.6
75°	2786.5	544.4	48.3	22.8	16.1	13.4	13.4	22.8	30.8	38.9	41.6
77.5°	509.6	138.1	38.9	20.1	16.1	13.4	12.1	21.5	29.5	37.5	38.9
80°	202.5	68.4	30.8	17.4	14.8	12.1	10.7	20.1	28.2	36.2	37.5
82.5°	122.0	38.9	25.5	16.1	14.8	10.7	9.4	17.4	26.8	34.9	36.2
85°	99.2	26.8	20.1	16.1	13.4	10.7	8.0	16.1	24.1	33.5	34.9
87.5°	48.3	18.8	18.8	14.8	13.4	10.7	8.0	14.8	22.8	32.2	33.5
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)