

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: P193667

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193667
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-09-LED-E1-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 29972 lumens
Efficiency: N/A
Efficacy: 80.1 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): 374
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

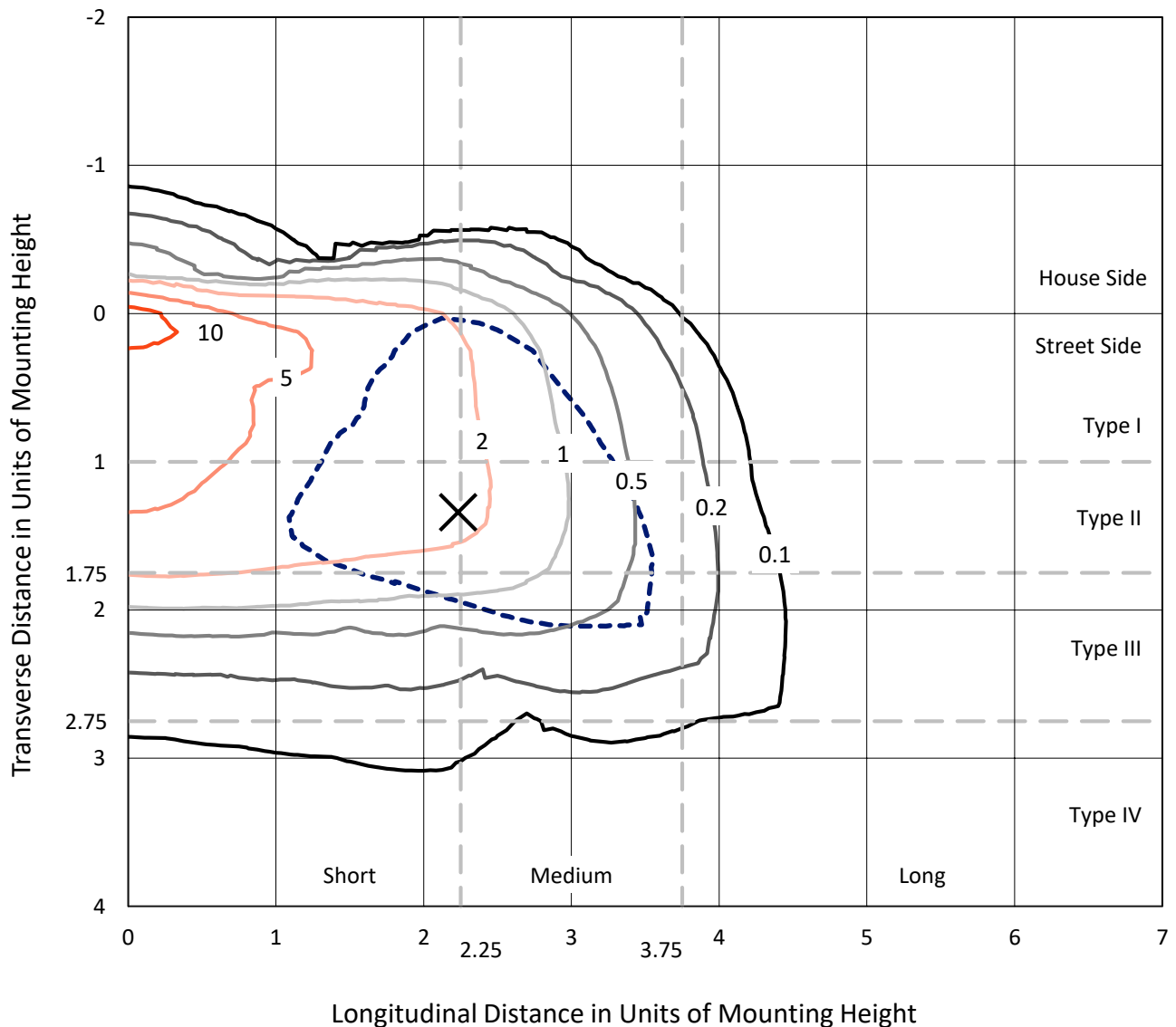


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

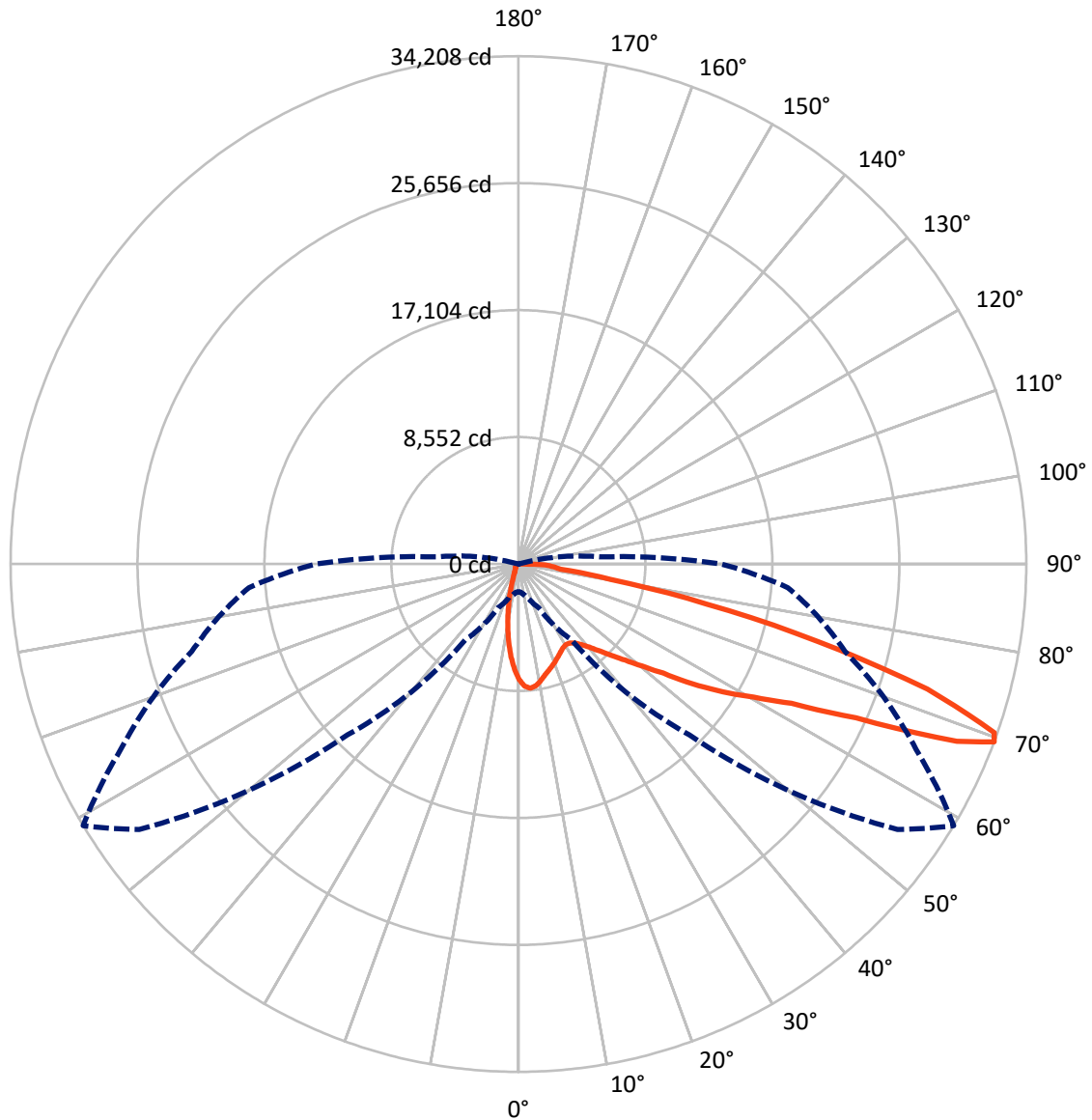


Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - Non-Cutoff

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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	2440.8	0.0	2440.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	27531.2	0.0	27531.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	29972.0	0.0	29972.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.2	2.1
10°-20°	1308.4	4.4
20°-30°	1760.7	5.9
30°-40°	2556.4	8.5
40°-50°	4256.6	14.2
50°-60°	6640.2	22.2
60°-70°	8216.7	27.4
70°-80°	4164.1	13.9
80°-90°	435.7	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°	29972.0	100.0
0°-180°	29972.0	100.0



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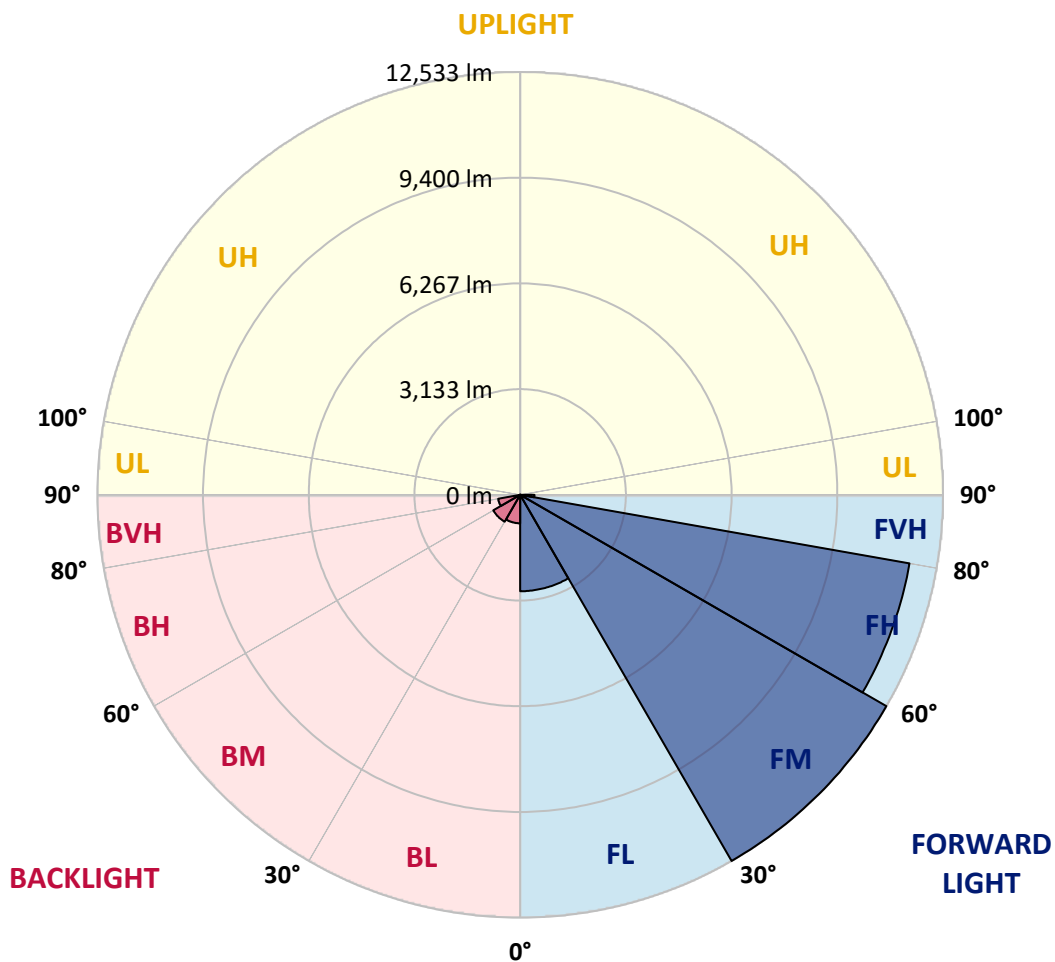
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2857.5	9.5			
FM (30°-60°)	12533.4	41.8			
FH (60°-80°)	11718.0	39.1			G4/12000
FVH (80°-90°)	422.3	1.4			G3/500
BL (0°-30°)	844.8	2.8	B2/1000		
BM (30°-60°)	919.7	3.1	B1/1000		
BH (60°-80°)	662.9	2.2	B2/1000		G2/1000
BVH (80°-90°)	13.4	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°	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3
2.5°	8550.4	8547.0	8509.7	8492.8	8462.3	8397.9	8297.9	8245.3	8160.6	8013.2	7814.9
5°	8472.4	8513.1	8535.2	8536.9	8558.9	8535.2	8445.3	8401.3	8284.3	8047.0	7691.1
7.5°	7943.7	7958.9	8021.6	8075.9	8180.9	8280.9	8313.1	8294.5	8225.0	7970.8	7497.9
10°	7377.6	7392.8	7467.4	7538.6	7681.0	7835.2	7997.9	8031.8	8060.6	7862.3	7311.5
12.5°	6889.5	6904.7	6981.0	7074.2	7240.3	7430.1	7682.7	7738.6	7865.7	7758.9	7162.3
15°	6469.2	6475.9	6550.5	6665.8	6864.1	7108.1	7394.5	7484.4	7679.3	7686.0	7031.8
17.5°	6111.6	6128.5	6174.3	6284.4	6501.4	6803.0	7136.9	7265.7	7494.5	7625.0	6904.7
20°	5892.9	5909.9	5908.2	5969.2	6164.1	6486.1	6879.3	7033.5	7311.5	7562.3	6791.2
22.5°	5850.5	5850.5	5806.5	5798.0	5913.3	6182.7	6611.5	6799.7	7147.1	7535.2	6711.5
25°	6001.4	5994.6	5884.4	5794.6	5799.7	5960.7	6352.2	6575.9	7008.1	7553.9	6669.2
27.5°	6320.0	6311.5	6172.6	6001.4	5864.1	5862.4	6155.6	6396.3	6898.0	7642.0	6686.1
30°	6760.7	6757.3	6606.4	6391.2	6142.1	5913.3	6087.8	6306.5	6826.8	7801.3	6725.1
32.5°	7242.0	7236.9	7123.4	6896.3	6581.0	6142.1	6159.0	6342.0	6847.1	8013.2	6820.0
35°	7752.1	7743.7	7694.5	7496.2	7148.8	6564.1	6392.9	6535.3	6975.9	8330.1	7006.4
37.5°	8304.7	8313.1	8348.7	8158.9	7794.5	7155.6	6784.4	6881.0	7235.2	8760.6	7309.8
40°	9119.9	9118.2	9130.0	8880.9	8530.1	7879.3	7331.8	7362.3	7669.1	9331.7	7770.8
42.5°	10599.5	10496.1	10182.5	9674.1	9321.6	8706.3	8021.6	7989.4	8199.6	10038.5	8416.5
45°	12587.5	12367.2	11553.6	10579.1	10128.3	9638.5	8870.7	8767.3	8901.2	10887.6	9213.1
47.5°	14297.6	14068.8	12918.0	11521.4	10984.2	10523.2	9865.6	9679.2	9723.2	11838.4	10223.2
50°	14878.9	14767.0	13762.0	12341.7	11813.0	11636.7	11019.8	10792.7	10730.0	12938.3	11394.3
52.5°	14677.2	14668.7	13999.3	12873.9	12572.2	12789.2	12472.2	12209.5	11979.1	14097.6	12585.8
55°	14353.5	14395.9	14095.9	13340.0	13329.8	13841.7	14458.6	14240.0	13572.2	15356.8	13612.9
57.5°	13460.3	13641.7	14041.7	14221.3	14638.2	15161.9	16112.7	16241.5	15451.8	16321.2	14465.4
60°	10921.5	11319.8	12628.2	14348.4	16324.6	17629.6	18109.2	18219.4	16994.0	17122.9	15616.2
62.5°	7752.1	8158.9	9818.1	12728.2	16350.0	20871.8	21083.7	20651.5	18692.3	18310.9	17600.8
65°	4115.0	4428.6	5784.5	9187.7	14175.5	21624.3	26285.1	24997.0	21688.7	20648.1	20165.1
67.5°	2105.0	2199.9	2738.8	4496.4	9745.3	19207.5	30947.6	31854.3	26852.9	22966.6	20041.4
69°	1862.6	1918.5	2276.2	3250.7	6240.4	16268.7	31174.7	34208.4	29556.1	22773.4	18212.6
70°	1803.3	1852.4	2177.9	2942.2	4877.7	13643.4	30305.2	34001.7	30247.6	22037.9	16846.6
72.5°	1530.4	1572.8	1938.9	2599.9	3964.2	6772.5	24617.4	28812.1	27142.7	18358.4	12194.3
75°	1023.7	1162.7	1860.9	2437.2	3687.9	3847.3	16229.7	20821.0	19341.4	12382.4	6352.2
77.5°	245.8	264.4	525.4	1938.9	3372.7	3386.3	8347.0	12943.4	10557.1	4413.3	1501.6
80°	132.2	127.1	147.5	384.7	3140.5	3177.8	3757.4	6282.7	3769.3	732.2	494.9
82.5°	93.2	88.1	94.9	161.0	988.1	2894.8	2718.5	2843.9	1562.6	281.3	222.0
85°	33.9	32.2	52.5	145.8	310.2	1664.3	2793.1	2345.6	1266.0	128.8	162.7
87.5°	11.9	10.2	20.3	79.7	94.9	708.4	1723.6	1772.8	498.3	78.0	76.3
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°	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3
2.5°	7731.8	7626.7	7433.5	7235.2	7052.2	6831.9	6721.7	6613.2	6567.5	6550.5	6470.9
5°	7508.1	7330.1	6920.0	6508.1	6128.5	5725.1	5459.0	5245.5	5120.1	5059.1	4962.5
7.5°	7221.7	6930.2	6308.2	5672.6	5081.1	4498.1	4065.9	3733.7	3504.9	3394.7	3294.7
10°	6943.7	6555.6	5670.9	4804.8	4001.5	3228.6	2632.1	2199.9	1923.6	1796.5	1715.2
12.5°	6694.6	6191.2	5055.7	3959.1	2950.7	2045.7	1438.9	1094.9	923.7	864.4	835.6
15°	6472.6	5855.6	4474.3	3155.8	1998.2	1169.4	786.4	669.5	642.3	642.3	639.0
17.5°	6262.4	5526.8	3913.4	2401.6	1254.2	715.2	598.3	583.0	583.0	589.8	589.8
20°	6060.7	5213.3	3371.0	1723.6	789.8	567.8	540.7	537.3	540.7	549.1	549.1
22.5°	5887.8	4928.6	2864.3	1183.0	586.4	511.8	498.3	493.2	494.9	500.0	503.4
25°	5759.0	4687.9	2386.3	801.7	505.1	466.1	450.8	442.4	435.6	435.6	439.0
27.5°	5677.7	4484.5	1923.6	583.0	454.2	423.7	400.0	386.4	371.2	362.7	366.1
30°	5618.4	4291.3	1489.8	476.2	406.8	376.3	345.7	323.7	301.7	291.5	294.9
32.5°	5596.3	4135.4	1113.5	420.3	364.4	330.5	293.2	264.4	240.7	232.2	233.9
35°	5655.6	4011.7	815.2	379.6	330.5	288.1	245.8	213.5	194.9	189.8	191.5
37.5°	5811.6	3945.6	610.1	345.7	300.0	252.5	205.1	174.6	162.7	162.7	164.4
40°	6106.5	3943.9	489.8	322.0	272.9	218.6	169.5	147.5	140.7	144.1	145.8
42.5°	6537.0	4033.7	427.1	300.0	249.1	186.4	140.7	125.4	123.7	127.1	128.8
45°	7125.1	4198.1	393.2	281.3	223.7	155.9	118.6	108.5	108.5	113.6	115.2
47.5°	7845.4	4438.8	364.4	262.7	198.3	130.5	101.7	94.9	96.6	101.7	103.4
50°	8713.1	4742.1	335.6	242.4	179.7	108.5	88.1	83.0	84.7	91.5	93.2
52.5°	9701.2	5150.6	311.8	223.7	155.9	89.8	74.6	71.2	74.6	81.4	83.0
55°	10548.6	5516.7	283.0	208.5	125.4	74.6	61.0	61.0	64.4	72.9	74.6
57.5°	11363.8	5899.7	257.6	179.7	98.3	59.3	50.8	52.5	57.6	66.1	67.8
60°	12560.4	6548.8	227.1	150.8	74.6	47.5	42.4	44.1	50.8	59.3	61.0
62.5°	14592.5	7536.9	196.6	125.4	57.6	37.3	33.9	37.3	45.8	55.9	57.6
65°	16426.3	7938.6	161.0	105.1	44.1	28.8	28.8	33.9	44.1	54.2	55.9
67.5°	15404.3	6682.7	125.4	83.0	33.9	22.0	23.7	32.2	42.4	54.2	55.9
69°	13623.0	5464.1	106.8	66.1	28.8	20.3	22.0	32.2	42.4	52.5	54.2
70°	12235.0	4613.3	94.9	55.9	25.4	20.3	22.0	30.5	42.4	52.5	54.2
72.5°	8194.5	2491.4	76.3	40.7	23.7	18.6	18.6	30.5	40.7	50.8	52.5
75°	3521.9	688.1	61.0	28.8	20.3	16.9	16.9	28.8	39.0	49.2	52.5
77.5°	644.0	174.6	49.2	25.4	20.3	16.9	15.3	27.1	37.3	47.5	49.2
80°	255.9	86.4	39.0	22.0	18.6	15.3	13.6	25.4	35.6	45.8	47.5
82.5°	154.2	49.2	32.2	20.3	18.6	13.6	11.9	22.0	33.9	44.1	45.8
85°	125.4	33.9	25.4	20.3	16.9	13.6	10.2	20.3	30.5	42.4	44.1
87.5°	61.0	23.7	23.7	18.6	16.9	13.6	10.2	18.6	28.8	40.7	42.4
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)