

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: P269552

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269552
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-08-LED-E1-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA 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: 34329.3 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

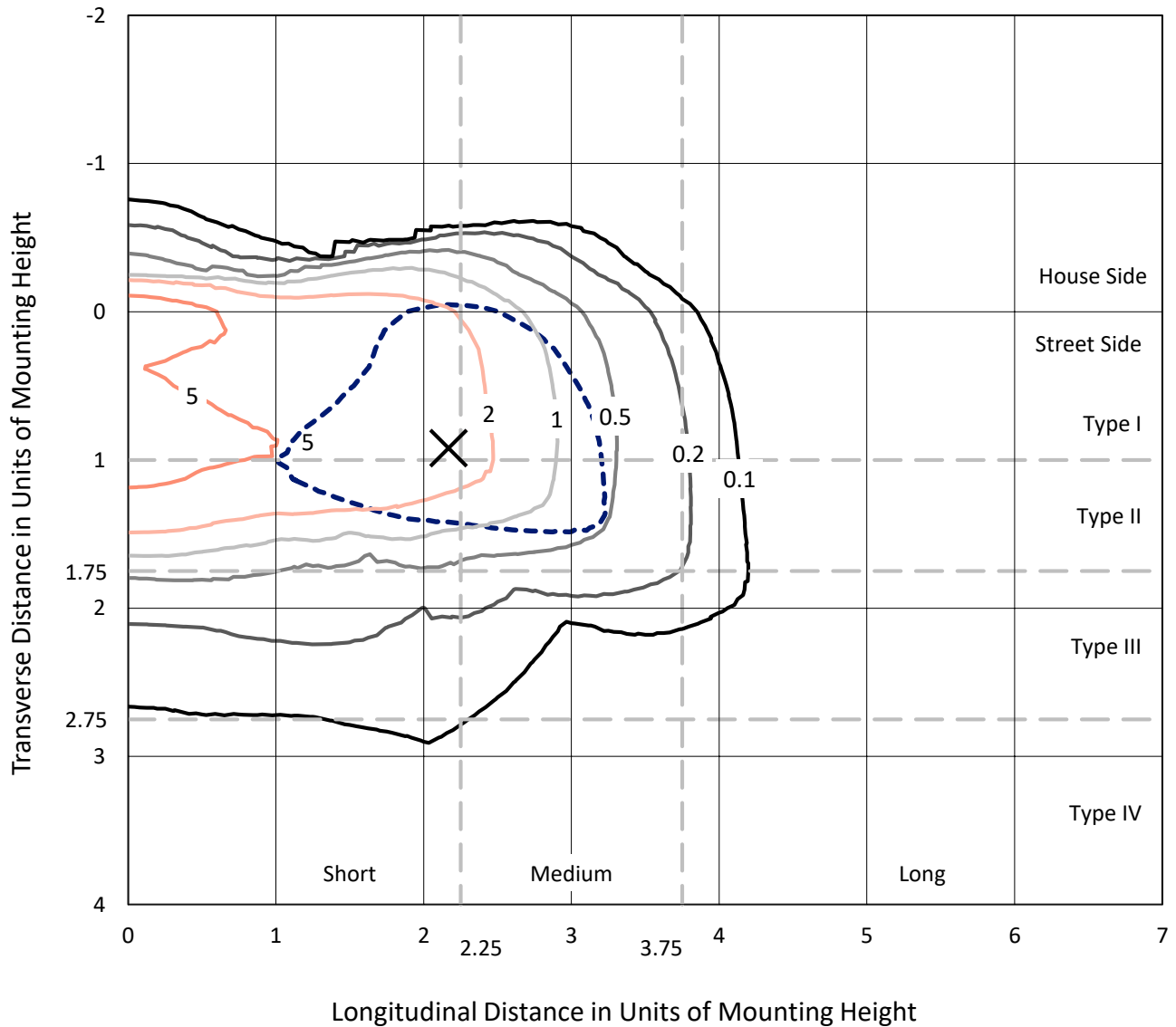


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

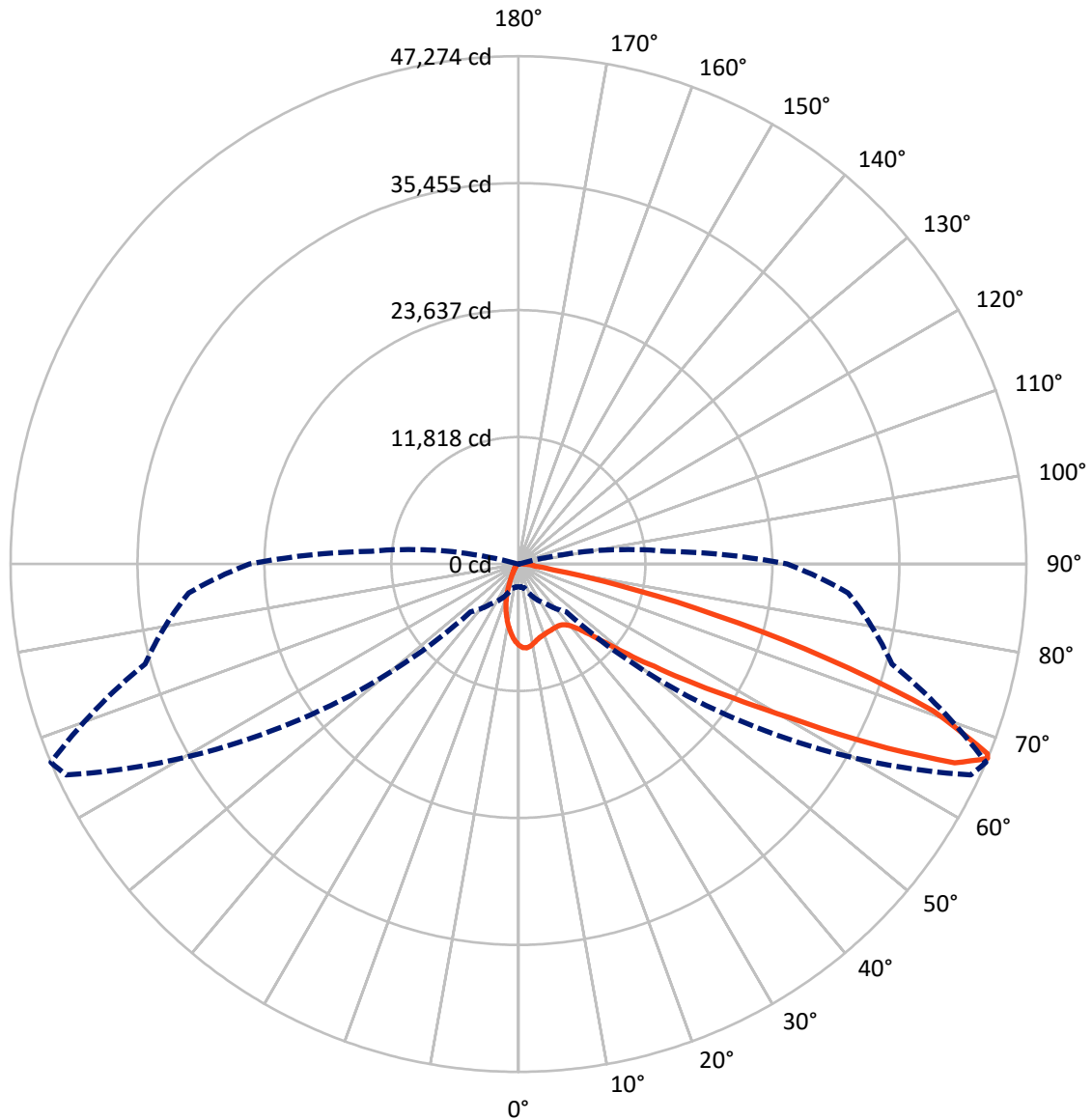


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

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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	3564.4	0.0	3564.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	30764.9	0.0	30764.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	34329.3	0.0	34329.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.0	1.8
10°-20°	1311.1	3.8
20°-30°	1906.3	5.6
30°-40°	2973.9	8.7
40°-50°	5268.1	15.3
50°-60°	8336.2	24.3
60°-70°	9548.0	27.8
70°-80°	3960.5	11.5
80°-90°	409.1	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°	34329.3	100.0
0°-180°	34329.3	100.0

Coefficient of Utilization



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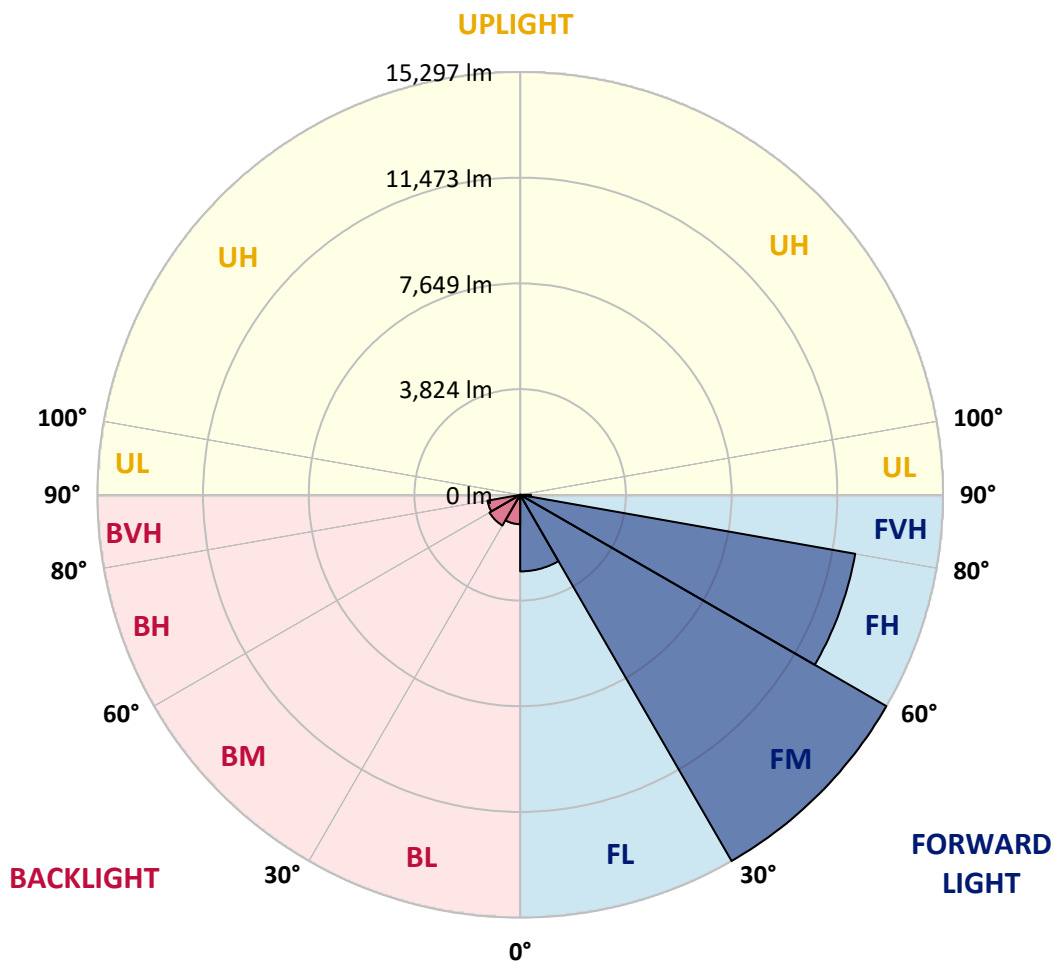
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2769.9	8.1			
FM (30°-60°)	15297.2	44.6			
FH (60°-80°)	12307.1	35.9			G5
FVH (80°-90°)	390.7	1.1			G3/500
BL (0°-30°)	1063.6	3.1	B3/2500		
BM (30°-60°)	1281.0	3.7	B2/2500		
BH (60°-80°)	1201.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	18.4	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8
2.5°	7827.2	7843.2	7841.1	7853.3	7881.2	7883.3	7855.1	7801.2	7789.2	7719.0	7596.8
5°	7218.5	7264.6	7292.5	7406.6	7534.9	7689.0	7805.2	7847.2	7841.1	7791.1	7606.8
7.5°	6523.6	6569.8	6601.7	6735.9	6906.1	7170.5	7472.8	7721.0	7743.1	7797.2	7598.9
10°	6061.1	6069.0	6113.1	6241.3	6419.5	6689.9	7050.3	7484.8	7550.9	7749.0	7578.9
12.5°	5680.6	5686.7	5744.8	5882.9	6073.1	6345.4	6723.9	7226.4	7328.6	7689.0	7574.9
15°	5410.3	5432.4	5484.4	5628.6	5830.8	6101.2	6489.6	7036.2	7158.5	7666.9	7610.9
17.5°	5320.2	5344.2	5360.2	5464.4	5648.6	5913.0	6311.4	6912.1	7050.3	7679.0	7681.0
20°	5414.4	5432.4	5396.3	5422.3	5536.6	5772.8	6161.2	6806.0	6970.2	7693.1	7771.1
22.5°	5764.8	5772.8	5674.7	5560.5	5540.4	5670.6	6043.1	6721.8	6898.1	7731.1	7877.2
25°	6365.5	6351.5	6191.3	5945.0	5712.7	5652.7	5973.0	6669.8	6862.2	7771.1	7987.4
27.5°	7090.3	7110.4	6890.1	6531.7	6089.2	5772.8	5962.9	6647.7	6846.1	7799.2	8083.5
30°	7971.3	7999.3	7747.2	7296.6	6661.8	6069.0	6055.0	6643.8	6836.0	7781.1	8091.6
32.5°	8870.5	8904.4	8706.3	8241.7	7426.6	6565.7	6263.3	6687.8	6856.0	7719.0	8045.4
35°	9811.5	9859.5	9727.3	9329.0	8463.9	7282.5	6629.9	6822.0	6950.1	7713.0	7999.3
37.5°	11111.0	11155.1	10906.9	10484.3	9719.4	8243.7	7218.5	7074.3	7172.3	7809.1	8011.4
40°	13051.2	13045.2	12404.5	11757.7	11099.0	9465.1	8045.4	7530.9	7580.8	8099.5	8159.6
42.5°	15165.7	15155.8	14208.6	13225.4	12630.8	10968.8	9132.7	8319.7	8285.6	8634.1	8544.0
45°	16795.7	16793.6	16020.8	14913.5	14475.0	12694.8	10538.3	9417.0	9365.0	9503.1	9252.8
47.5°	17490.4	17502.5	17114.1	16335.1	16519.3	15029.6	12310.5	11006.9	10928.8	10872.7	10492.4
50°	16949.8	16974.0	17006.0	16853.7	18019.1	18167.3	14687.2	13247.6	13209.4	12959.2	12364.5
52.5°	15183.8	15306.0	15682.4	16164.9	18539.7	21178.8	18413.5	16030.9	15826.6	15560.3	14905.4
55°	12208.3	12342.4	13057.4	14228.7	17764.8	23157.1	23635.8	19619.1	19278.5	18483.6	17538.6
57.5°	8079.4	8287.8	9324.9	10814.6	15514.2	23475.4	28845.8	24598.8	23413.5	21236.9	20171.6
60°	4451.2	4651.5	5776.8	7126.3	11205.2	21901.7	32349.9	31082.4	28987.9	24314.6	23369.3
62.5°	2741.2	2849.3	3680.4	4935.7	6720.0	17286.3	33074.8	39230.1	36805.1	28277.1	27231.8
65°	2182.5	2228.7	2635.1	4034.7	4817.6	10282.1	30734.0	45441.2	44632.3	33074.8	30690.0
67°	2118.6	2136.4	2328.8	3464.0	4541.3	6303.3	25748.2	46452.4	47273.5	35978.1	30798.1
67.5°	2132.4	2152.5	2334.8	3305.9	4533.2	5792.8	24030.2	46053.9	47091.2	36208.4	30319.6
70°	2056.4	2118.6	2673.1	3303.8	4311.1	4813.7	14390.8	39902.8	40982.0	33643.4	25726.2
72.5°	728.9	732.8	1155.4	2673.1	4687.4	4865.7	7226.4	29252.2	30051.2	25736.3	18547.8
75°	432.5	368.5	384.5	760.9	4479.3	4725.5	4168.9	18691.9	18990.3	14747.3	9392.9
77.5°	298.3	260.2	268.4	336.3	1706.1	4659.5	3312.0	9747.4	9429.1	5172.0	2000.3
80°	170.1	150.1	160.2	294.4	620.6	4347.1	3123.6	3952.6	3369.9	877.0	552.6
82.5°	90.1	76.0	92.0	242.4	432.5	2709.2	3129.7	1910.2	1513.7	296.4	376.4
85°	32.0	26.1	44.0	166.1	288.4	831.0	2901.3	1605.9	1261.5	144.2	286.3
87.5°	6.0	6.0	18.1	68.1	116.2	254.3	1716.0	953.1	638.8	86.1	196.2
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°	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8	7570.8
2.5°	7546.8	7460.8	7344.6	7202.4	7034.3	6886.0	6775.9	6661.8	6637.8	6597.7	6591.8
5°	7496.7	7348.7	7060.3	6729.9	6377.4	6059.1	5800.7	5570.5	5468.4	5380.3	5370.2
7.5°	7422.8	7200.5	6709.9	6177.3	5626.7	5126.0	4701.5	4401.2	4124.8	3992.6	3972.7
10°	7336.5	7018.2	6315.4	5576.6	4815.6	4108.8	3478.1	2949.4	2629.1	2438.9	2414.9
12.5°	7256.5	6840.1	5913.0	4953.9	3942.7	2997.6	2186.6	1681.9	1345.7	1209.4	1193.4
15°	7218.5	6695.8	5536.6	4317.1	3029.5	1908.2	1195.5	925.1	814.9	783.0	780.8
17.5°	7214.5	6573.6	5168.0	3658.3	2122.4	1109.2	778.9	710.7	688.8	680.7	680.7
20°	7212.4	6457.6	4799.6	2975.5	1347.5	738.9	648.8	632.8	616.7	606.7	606.7
22.5°	7234.5	6353.4	4415.2	2278.7	849.0	598.7	570.7	554.7	534.6	520.6	518.6
25°	7256.5	6273.4	4022.7	1621.9	614.7	520.6	492.6	470.5	442.5	424.4	422.6
27.5°	7260.6	6173.2	3602.3	1085.2	514.5	454.5	418.5	384.5	352.4	334.3	332.5
30°	7200.5	6005.0	3135.7	732.8	454.5	394.4	346.3	310.4	280.4	266.3	266.3
32.5°	7082.2	5796.9	2623.1	552.6	404.4	338.4	286.3	252.3	232.3	226.3	224.2
35°	6976.1	5572.5	2096.5	468.6	362.5	286.3	234.3	212.3	200.2	198.3	196.2
37.5°	6914.2	5392.3	1601.9	424.4	322.4	240.2	198.3	182.3	176.2	172.2	174.2
40°	6962.1	5242.1	1183.3	388.4	282.3	200.2	168.3	160.2	154.1	152.2	152.2
42.5°	7172.3	5216.1	879.0	356.4	244.2	166.1	146.2	140.1	136.2	134.1	136.2
45°	7725.1	5376.3	682.8	326.4	206.3	140.1	124.1	122.1	120.2	120.2	120.2
47.5°	8556.0	5706.8	568.6	292.4	172.2	120.2	108.2	106.1	104.2	106.1	106.1
50°	9963.7	6311.4	508.6	258.4	142.1	102.0	92.0	92.0	92.0	92.0	94.1
52.5°	12104.2	7500.8	468.6	224.2	116.2	86.1	78.2	78.2	80.0	80.0	82.0
55°	14489.0	9078.6	432.5	190.3	98.2	72.0	64.0	66.0	68.1	70.1	70.1
57.5°	17076.1	10826.7	402.5	156.1	84.1	58.1	54.1	56.1	58.1	62.1	62.1
60°	20197.8	12718.9	358.5	122.1	70.1	46.1	42.0	46.1	52.0	56.1	58.1
62.5°	23625.8	14549.0	302.4	96.1	58.1	36.0	34.0	42.0	50.0	54.1	56.1
65°	25968.5	15123.8	232.3	78.2	44.0	26.1	28.0	38.1	48.1	54.1	54.1
67°	25019.4	13712.1	190.3	66.0	36.0	20.0	26.1	38.1	48.1	52.0	54.1
67.5°	24360.5	13159.5	182.3	64.0	34.0	20.0	26.1	38.1	48.1	54.1	54.1
70°	19821.2	9885.6	152.2	48.1	28.0	18.1	22.0	36.0	46.1	52.0	52.0
72.5°	13772.2	6095.1	136.2	34.0	24.1	16.0	20.0	34.0	44.0	50.0	52.0
75°	6547.7	2206.5	116.2	26.1	22.0	14.1	18.1	34.0	44.0	50.0	50.0
77.5°	1335.6	512.7	94.1	22.0	18.1	14.1	16.0	32.0	42.0	48.1	48.1
80°	438.6	198.3	70.1	20.0	18.1	14.1	16.0	30.1	42.0	46.1	48.1
82.5°	316.4	100.2	46.1	20.0	18.1	14.1	14.1	30.1	40.1	46.1	46.1
85°	242.4	70.1	30.1	20.0	18.1	14.1	14.1	28.0	38.1	44.0	44.0
87.5°	160.2	28.0	24.1	20.0	18.1	14.1	14.1	28.0	36.0	42.0	44.0
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)