

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: P269249

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SLL-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18333.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 225
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

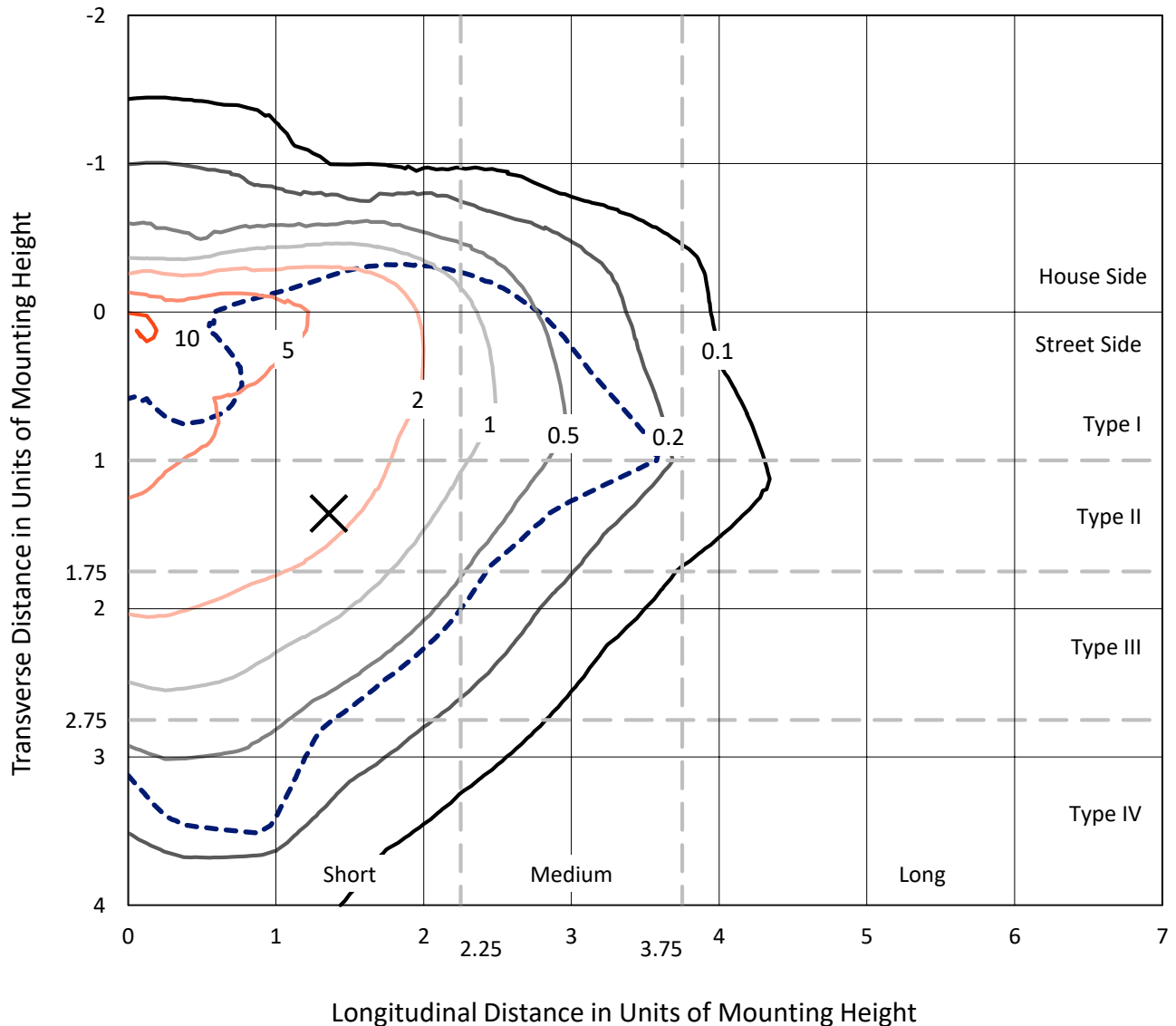


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

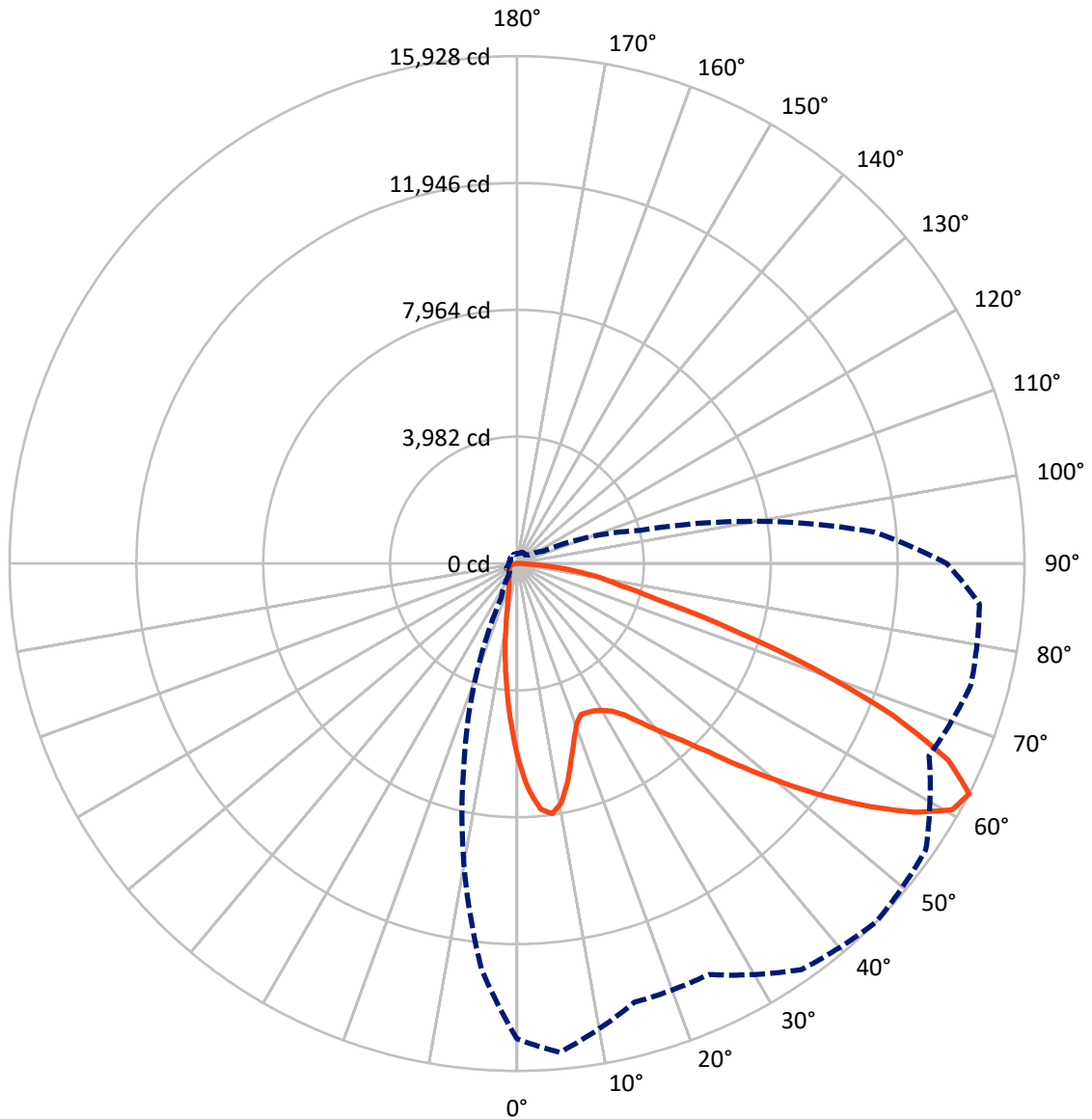


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3033.9	0.0	3033.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15299.2	0.0	15299.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	18333.1	0.0	18333.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.9	2.5
10°-20°	826.8	4.5
20°-30°	1205.5	6.6
30°-40°	1856.6	10.1
40°-50°	2732.5	14.9
50°-60°	4007.9	21.9
60°-70°	4480.3	24.4
70°-80°	2193.5	12.0
80°-90°	579.1	3.2
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°	18333.1	100.0
0°-180°	18333.1	100.0



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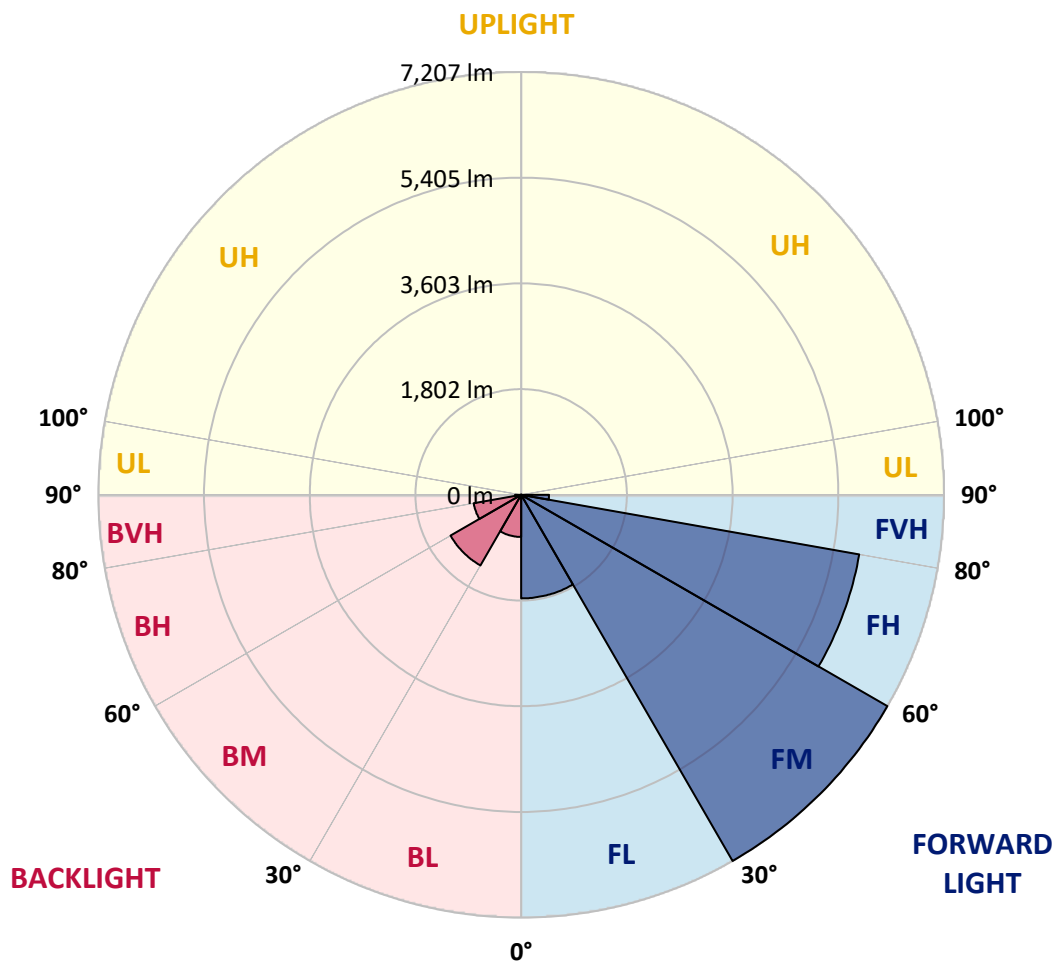
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.4	9.6			
FM (30°-60°)	7206.9	39.3			
FH (60°-80°)	5851.3	31.9			G3/7500
FVH (80°-90°)	475.6	2.6			G3/500
BL (0°-30°)	717.8	3.9	B2/1000		
BM (30°-60°)	1390.1	7.6	B2/2500		
BH (60°-80°)	822.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	103.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	6435.7	6538.6	6739.2	6889.3	7071.6	7113.9	7172.4	7115.0	7013.2	6878.2	6833.9
5°	6051.8	6271.4	6758.3	7186.6	7567.5	7744.8	7794.2	7648.2	7352.8	6964.9	6728.0
7.5°	5436.1	5748.4	6407.6	7038.4	7599.8	7931.3	7923.3	7583.6	7040.5	6408.6	6028.6
10°	4904.9	5261.7	6017.6	6722.9	7318.6	7640.1	7516.1	7081.8	6433.8	5706.2	5293.9
12.5°	4607.6	4957.3	5724.3	6432.8	6930.7	7041.5	6946.8	6521.4	5910.7	5175.0	4814.2
15°	4556.3	4940.1	5607.4	6183.8	6462.9	6366.3	6253.5	6062.9	5631.6	5003.6	4627.8
17.5°	4779.0	5202.3	5741.3	6010.5	5963.0	5794.8	5762.5	5783.7	5680.0	5194.2	4760.7
20°	5206.2	5714.2	6060.9	5928.9	5583.1	5351.5	5359.5	5682.9	5990.3	5676.8	5182.1
22.5°	5805.9	6385.4	6521.4	5972.2	5423.0	5147.7	5214.3	5738.5	6485.1	6382.4	5750.5
25°	6581.9	7109.9	7012.2	6129.5	5439.1	5173.0	5226.3	5929.8	7069.8	7087.8	6454.0
27.5°	7333.8	7823.5	7424.4	6338.0	5505.6	5232.4	5303.1	6231.3	7628.0	7853.7	7258.1
30°	7920.3	8261.0	7587.8	6528.5	5636.5	5348.4	5436.1	6517.5	7882.0	8370.8	7876.9
32.5°	8406.0	8650.9	7847.8	6764.2	5877.5	5530.8	5685.0	6865.0	8247.8	8862.6	8482.6
35°	9026.8	9096.3	8171.3	7027.4	6249.2	5848.2	6039.8	7205.8	8596.5	9359.4	9079.2
37.5°	9754.4	9664.8	8476.5	7387.1	6730.0	6345.1	6503.3	7579.5	8883.7	9922.8	9688.8
40°	10474.0	10258.4	8859.5	7945.5	7431.5	6930.7	7118.1	7978.7	9151.8	10487.2	10284.5
42.5°	11085.8	10766.2	9237.5	8559.2	8084.6	7576.7	7800.3	8380.7	9407.8	10968.8	10801.5
45°	11538.2	11141.1	9597.2	9148.8	8984.5	8435.3	8541.1	8841.4	9684.8	11370.9	11226.8
47.5°	11942.3	11518.1	10004.3	9743.3	9771.6	9551.9	9381.5	9377.5	10011.4	11699.4	11629.0
50°	12483.6	12041.2	10441.8	10356.1	10952.8	10806.6	10430.7	10003.3	10424.7	12072.4	12064.2
52.5°	13229.2	12869.6	10975.9	11016.3	12055.3	12151.0	11685.4	10755.1	11071.6	12756.7	12708.3
55°	14111.1	13901.5	11703.5	11775.1	13407.7	13476.3	13013.7	11695.5	12022.9	13747.3	13613.3
57.5°	14799.4	14755.1	12501.7	12686.1	14417.4	14725.8	14300.6	12783.9	13095.3	14581.7	14245.2
60°	15073.6	15288.3	13351.2	13605.2	15351.8	15693.4	15320.6	13740.2	14045.5	14927.5	14201.8
62.5°	14925.5	15405.2	14256.2	14235.1	15560.4	15928.1	15666.3	14272.5	14750.1	14570.7	13483.3
65°	14241.1	14984.8	14781.3	14072.8	14846.8	14877.1	14792.4	14034.6	14916.4	13443.0	12094.5
67.5°	12750.6	13821.0	14089.9	12682.1	12921.9	12725.4	12583.3	12732.4	14049.8	11753.0	10164.6
70°	10385.3	11995.7	12124.8	10143.4	10034.5	9902.6	9619.4	10438.8	12339.5	9632.4	8065.4
72.5°	7636.0	9329.2	9725.2	7439.6	6935.6	6962.9	6739.2	7866.8	10032.6	7155.3	6021.6
75°	5224.5	6755.3	7608.9	5191.1	4586.4	4597.5	4569.4	5574.2	7990.9	4977.5	4505.9
77.5°	3816.4	4826.4	5738.5	3489.9	3388.1	3325.7	3310.7	3900.3	6126.4	3613.9	3499.1
80°	3062.7	3565.6	3854.7	2418.6	2601.1	2596.1	2512.4	2681.7	4001.0	2643.4	2617.2
82.5°	2124.4	2740.2	3123.1	1895.7	1755.6	1726.4	1746.6	1997.4	2827.9	1807.0	1718.3
85°	1120.6	1820.1	3093.0	1680.0	1042.0	831.4	1033.9	1635.6	2449.9	957.5	838.5
87.5°	143.1	526.0	2047.9	670.1	411.2	221.7	490.8	921.1	1573.1	195.6	170.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	6720.0	6586.0	6410.6	6248.3	6080.0	5912.7	5694.0	5556.9	5462.2	5444.1	5403.8
5°	6556.6	6111.3	5774.7	5483.4	5219.3	4846.4	4639.8	4468.6	4376.8	4367.7	4345.6
7.5°	5803.9	5189.1	4734.6	4322.5	3948.5	3647.2	3314.7	3159.3	3096.0	3111.1	3126.2
10°	5020.8	4333.6	3811.5	3390.3	3060.6	2806.8	2539.7	2359.3	2234.3	2209.1	2204.0
12.5°	4448.3	3694.5	3187.6	2890.3	2635.4	2396.6	2113.4	1900.8	1738.4	1683.1	1645.8
15°	4206.6	3382.2	2851.0	2530.5	2249.4	1946.1	1683.1	1460.3	1311.2	1262.7	1235.6
17.5°	4258.0	3295.5	2619.3	2209.1	1849.3	1532.9	1201.4	1010.9	921.1	897.9	897.9
20°	4528.0	3279.4	2427.8	1912.9	1464.3	1097.5	825.5	716.6	687.4	684.2	692.4
22.5°	4906.9	3335.8	2284.7	1655.8	1137.9	801.2	642.9	602.7	589.6	592.6	601.7
25°	5471.2	3526.2	2180.8	1427.0	892.9	656.1	573.5	549.3	543.3	551.3	562.3
27.5°	6140.5	3716.7	2116.3	1254.8	753.9	599.7	545.2	519.9	524.0	534.1	544.3
30°	6728.0	3873.0	2014.5	1131.8	710.5	602.7	545.2	511.0	507.0	508.9	511.9
32.5°	7255.2	3978.8	1895.7	1014.8	612.7	535.1	508.9	503.9	481.8	473.6	474.7
35°	7709.7	3978.8	1824.1	946.4	549.3	474.7	432.4	407.1	396.1	397.1	408.2
37.5°	8148.0	3899.2	1788.9	908.0	515.0	451.5	414.2	392.0	376.8	373.9	375.9
40°	8535.1	3783.2	1748.6	891.8	488.8	437.4	402.1	383.9	367.9	362.8	363.9
42.5°	8845.4	3689.6	1704.2	870.7	472.7	427.4	394.0	377.9	359.9	354.7	353.8
45°	9180.9	3658.3	1645.8	828.3	480.8	428.3	392.0	375.0	356.7	350.7	348.7
47.5°	9623.5	3756.1	1585.2	778.0	497.8	433.3	395.1	375.0	355.8	350.7	348.7
50°	10180.8	3985.8	1508.7	704.5	480.8	447.4	394.0	371.9	355.8	350.7	346.7
52.5°	10896.4	4296.2	1408.0	619.8	470.6	481.8	392.0	365.8	350.7	343.6	336.7
55°	11766.0	4550.2	1288.0	550.2	447.4	472.7	389.0	358.8	342.7	332.6	326.5
57.5°	12402.9	4641.9	1133.8	504.8	415.1	457.5	385.0	349.7	332.6	324.5	316.5
60°	12277.0	4464.5	1003.8	476.7	396.1	413.2	382.0	341.6	323.5	317.5	310.5
62.5°	11268.2	4001.0	920.1	463.5	383.9	376.8	385.0	333.6	315.5	309.3	307.4
65°	9755.5	3316.6	886.8	460.7	373.9	355.8	357.7	324.5	306.4	301.3	299.3
67.5°	8047.2	2676.7	857.6	470.6	360.8	340.6	330.5	312.4	297.2	292.3	288.3
70°	6346.0	2226.2	844.5	464.7	344.7	325.5	314.4	299.3	286.2	281.2	278.1
72.5°	5110.5	1880.5	837.5	458.6	323.5	305.3	295.4	282.2	268.1	266.1	263.1
75°	4324.4	1478.4	767.0	439.5	299.3	281.2	274.2	262.0	247.9	247.9	245.9
77.5°	3335.8	1069.3	637.9	389.0	274.2	254.0	247.9	238.9	222.7	225.7	224.8
80°	2464.1	697.4	498.9	322.5	242.9	223.8	220.8	211.6	194.6	198.5	198.5
82.5°	1688.1	457.5	358.8	264.0	207.6	189.5	189.5	180.4	161.2	163.2	169.3
85°	847.6	314.4	268.1	204.5	161.2	152.2	152.2	145.2	126.0	127.0	135.0
87.5°	258.1	189.5	177.3	146.2	115.9	113.8	108.9	103.8	91.6	90.6	95.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	5342.3	5284.9	5215.3	5062.2	5010.7	5007.7	5054.1	5005.7	5098.4	5059.2	5102.5
5°	4308.4	4251.9	4174.2	3978.8	3859.8	3779.2	3740.9	3628.1	3709.7	3650.3	3699.6
7.5°	3168.5	3181.5	3130.2	3015.3	2756.3	2626.4	2549.7	2481.2	2540.6	2534.6	2629.2
10°	2227.2	2262.6	2226.2	2110.3	1900.8	1829.2	1843.2	1870.5	1948.1	1988.4	2134.6
12.5°	1603.5	1601.4	1578.2	1474.4	1336.3	1344.5	1401.8	1449.2	1520.8	1563.1	1712.2
15°	1197.3	1179.1	1169.1	1084.3	1005.8	1022.9	1051.1	1056.1	1101.5	1126.7	1247.7
17.5°	905.0	914.0	925.2	864.7	805.2	794.1	772.0	744.8	757.9	762.9	823.3
20°	718.6	754.8	782.1	739.8	679.3	647.0	618.8	600.6	600.6	599.7	616.7
22.5°	627.8	654.1	683.3	654.1	599.7	571.4	555.3	541.1	539.2	539.2	555.3
25°	578.5	597.6	625.8	605.6	565.4	544.3	529.1	511.0	503.9	502.0	512.9
27.5°	554.3	562.3	576.4	558.3	524.0	514.0	510.0	493.8	484.7	479.8	490.8
30°	512.9	511.0	511.9	493.8	466.6	465.6	472.7	475.7	472.7	471.6	488.8
32.5°	474.7	470.6	469.6	453.6	428.3	422.3	428.3	434.4	441.3	451.5	471.6
35°	426.2	436.3	442.4	428.3	398.0	380.0	372.8	361.7	355.8	355.8	378.9
37.5°	388.0	411.2	420.2	407.1	373.9	348.7	336.7	334.6	335.5	339.6	361.7
40°	375.0	392.0	400.0	387.0	353.8	330.5	323.5	321.6	323.5	329.6	351.7
42.5°	366.9	378.9	377.9	361.7	334.6	318.4	314.4	312.4	314.4	320.4	344.7
45°	359.9	367.9	359.9	340.6	315.5	307.4	308.4	307.4	309.3	315.5	338.7
47.5°	353.8	356.7	346.7	327.5	301.3	299.3	303.4	306.4	308.4	313.4	337.7
50°	344.7	344.7	335.5	315.5	289.3	290.2	295.4	302.3	303.4	309.3	328.5
52.5°	333.6	332.6	326.5	307.4	279.2	282.2	282.2	290.2	292.3	299.3	319.4
55°	324.5	322.5	319.4	301.3	270.1	275.2	272.0	275.2	280.2	287.2	309.3
57.5°	316.5	312.4	312.4	296.4	263.1	265.1	258.1	262.0	268.1	274.2	297.2
60°	308.4	304.3	306.4	289.3	252.0	249.9	246.9	254.9	256.9	264.0	287.2
62.5°	299.3	296.4	297.2	281.2	243.9	238.9	238.9	245.9	246.9	256.9	279.2
65°	292.3	288.3	287.2	273.2	234.7	228.8	231.9	234.7	236.9	246.9	268.1
67.5°	285.2	277.1	277.1	266.1	224.8	218.6	224.8	223.8	226.7	235.9	253.0
70°	276.0	265.1	266.1	261.0	214.7	207.6	212.7	211.6	213.6	219.6	236.9
72.5°	262.0	253.0	254.9	253.0	204.5	194.6	196.5	196.5	196.5	201.6	219.6
75°	243.9	236.9	242.9	247.9	192.4	178.4	180.4	180.4	177.3	180.4	202.6
77.5°	221.7	217.7	237.8	230.8	178.4	161.2	161.2	159.2	153.3	157.3	181.4
80°	197.5	194.6	219.6	193.4	162.2	140.0	138.1	132.9	127.0	130.1	154.1
82.5°	172.4	169.3	184.4	148.1	140.0	115.9	110.9	101.8	95.7	98.8	120.9
85°	141.2	141.2	142.1	111.8	106.8	88.8	82.6	70.5	63.5	65.4	86.6
87.5°	100.8	103.8	95.7	76.5	63.5	49.3	45.4	38.3	32.2	37.3	45.4
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	5324.2	5435.0	5561.0	5722.3	5860.4	6087.1	6304.8	6435.7
5°	3980.7	4165.3	4395.0	4690.3	4965.4	5378.6	5788.8	6051.8
7.5°	2849.1	3046.5	3294.4	3663.4	4052.3	4579.4	5121.5	5436.1
10°	2357.2	2559.8	2768.3	3017.3	3335.8	3909.2	4550.2	4904.9
12.5°	1950.1	2166.7	2391.5	2653.6	2948.7	3460.8	4199.4	4607.6
15°	1492.5	1734.4	1999.4	2331.0	2700.8	3292.5	4112.8	4556.3
17.5°	1022.9	1293.0	1618.6	2027.7	2480.2	3238.0	4267.9	4779.0
20°	704.5	901.0	1248.6	1728.3	2272.6	3231.1	4566.4	5206.2
22.5°	589.6	677.2	931.3	1453.3	2116.3	3317.7	5028.9	5805.9
25°	545.2	597.6	743.7	1214.4	2002.5	3517.3	5665.8	6581.9
27.5°	519.0	566.4	675.3	1058.3	1912.9	3748.9	6285.6	7333.8
30°	529.1	577.5	656.1	978.6	1790.9	3942.5	6835.9	7920.3
32.5°	476.7	497.8	562.3	908.0	1703.1	4104.7	7317.7	8406.0
35°	406.2	443.5	502.0	874.8	1705.3	4213.6	7842.7	9026.8
37.5°	387.0	424.3	466.6	862.6	1728.3	4329.6	8445.3	9754.4
40°	375.0	409.2	445.4	855.6	1750.5	4435.3	9036.0	10474.0
42.5°	366.9	398.0	443.5	831.4	1761.7	4530.1	9521.7	11085.8
45°	365.8	398.0	451.5	807.2	1778.7	4631.8	9928.7	11538.2
47.5°	366.9	411.2	436.3	778.0	1778.7	4802.1	10406.4	11942.3
50°	362.8	433.3	420.2	736.7	1737.4	5124.7	11061.5	12483.6
52.5°	360.8	430.3	389.0	673.2	1665.8	5636.5	11901.0	13229.2
55°	355.8	415.1	366.9	578.5	1582.3	6194.9	12799.9	14111.1
57.5°	350.7	367.9	354.7	495.9	1453.3	6588.0	13418.8	14799.4
60°	393.1	321.6	344.7	455.5	1281.0	6695.7	13394.5	15073.6
62.5°	363.9	301.3	331.6	446.5	1160.0	6393.4	12775.9	14925.5
65°	285.2	288.3	318.4	472.7	1127.7	5592.3	11679.4	14241.1
67.5°	261.0	275.2	305.3	505.9	1130.7	4477.6	10040.6	12750.6
70°	245.9	261.0	290.2	523.1	1138.8	3337.8	7938.4	10385.3
72.5°	228.8	241.9	273.2	526.0	1086.4	2424.7	6118.4	7636.0
75°	208.5	220.8	248.9	458.6	899.9	1681.9	4680.2	5224.5
77.5°	185.4	194.6	218.6	353.8	668.2	1076.3	3513.2	3816.4
80°	158.2	163.2	183.4	259.0	457.5	673.2	2779.4	3062.7
82.5°	127.0	128.9	142.1	194.6	297.2	432.4	1861.4	2124.4
85°	89.7	89.7	97.7	141.2	202.6	274.2	1010.9	1120.6
87.5°	42.3	43.4	43.4	77.7	105.8	139.1	232.8	143.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)