

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: P299432

Luminaire Tested: **GLNA-AF-07-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SLR-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28819.2 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

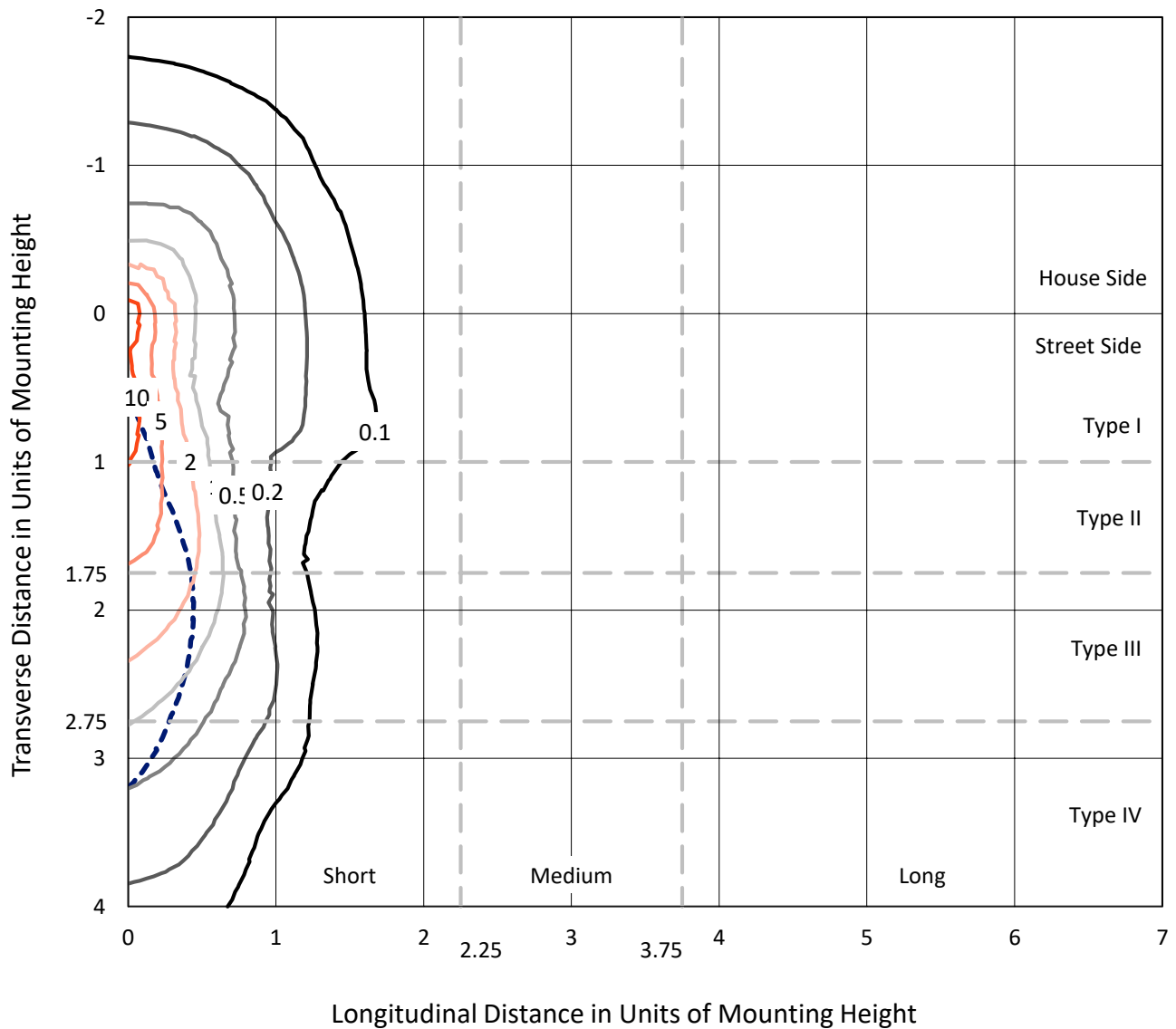
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

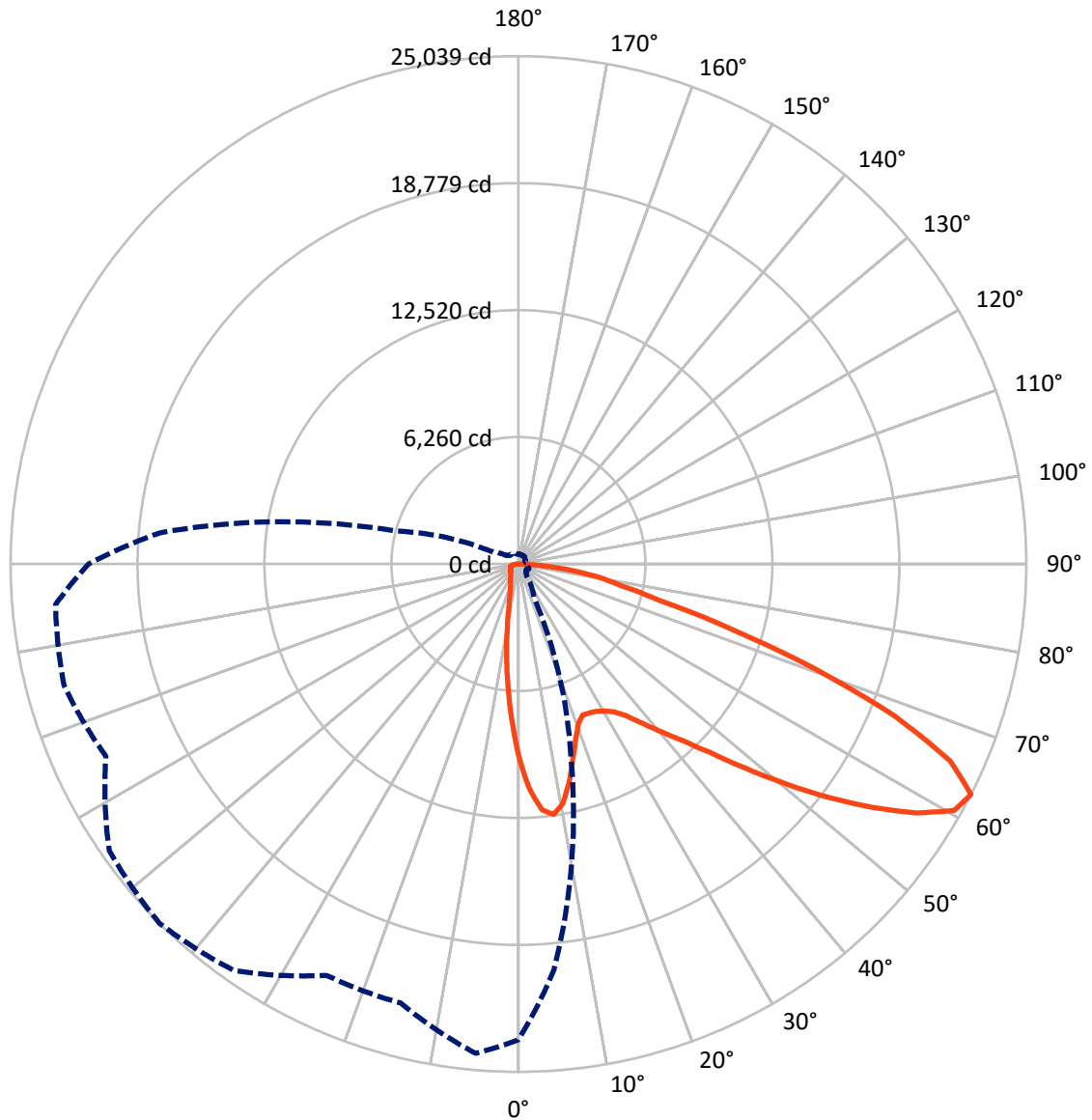
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4769.2	0.0	4769.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24050.0	0.0	24050.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	28819.2	0.0	28819.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.8	2.5
10°-20°	1299.7	4.5
20°-30°	1895.0	6.6
30°-40°	2918.6	10.1
40°-50°	4295.4	14.9
50°-60°	6300.4	21.9
60°-70°	7042.9	24.4
70°-80°	3448.1	12.0
80°-90°	910.4	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°	28819.2	100.0
0°-180°	28819.2	100.0



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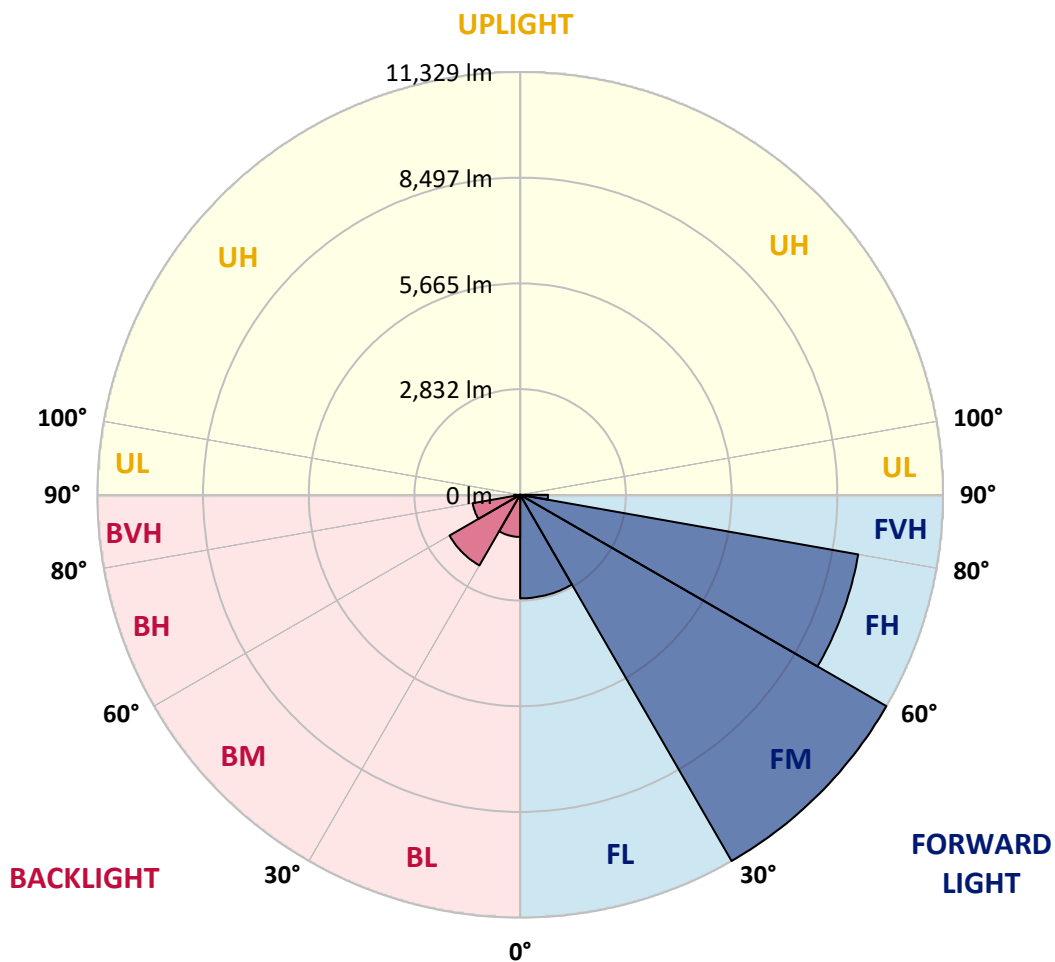
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2775.2	9.6			
FM (30°-60°)	11329.1	39.3			
FH (60°-80°)	9198.1	31.9			G4/12000
FVH (80°-90°)	747.6	2.6			G4/750
BL (0°-30°)	1128.3	3.9	B3/2500		
BM (30°-60°)	2185.2	7.6	B2/2500		
BH (60°-80°)	1292.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	162.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8
2.5°	10116.7	9910.9	9568.5	9212.2	8995.4	8741.7	8543.6	8369.5	8020.8	7952.7	8014.6
5°	9513.3	9099.9	8454.9	7805.5	7372.9	6908.6	6547.5	6257.8	5815.6	5737.9	5831.5
7.5°	8545.5	8051.0	7198.8	6370.0	5758.6	5178.7	4789.3	4478.5	4133.2	3984.5	3993.6
10°	7710.5	7152.8	6145.1	5243.9	4743.2	4351.9	4023.8	3705.4	3355.3	3125.6	3062.2
12.5°	7242.9	6601.7	5440.1	4635.3	4171.1	3759.6	3406.1	3065.6	2691.5	2457.0	2390.8
15°	7162.3	6465.0	5175.8	4245.9	3664.1	3143.3	2726.5	2346.2	1961.1	1771.2	1731.4
17.5°	7512.5	6709.1	5090.0	3898.7	3187.4	2544.3	2032.5	1608.1	1294.4	1199.5	1191.3
20°	8183.9	7178.2	5079.0	3572.5	2716.9	1963.0	1416.3	1107.4	969.8	942.4	944.3
22.5°	9126.8	7905.2	5215.2	3327.0	2284.3	1463.7	1064.7	926.6	872.9	847.5	847.5
25°	10346.4	8906.7	5528.8	3148.1	1908.8	1169.3	939.5	857.0	806.2	788.9	792.3
27.5°	11528.6	9880.7	5893.3	3007.1	1663.3	1061.4	890.1	815.8	771.7	753.9	762.1
30°	12450.4	10745.9	6197.4	2815.3	1538.1	1031.1	907.9	831.6	768.3	741.5	742.9
32.5°	13213.9	11503.2	6452.5	2677.1	1427.3	883.9	782.7	749.1	741.5	709.8	694.0
35°	14189.9	12328.6	6623.8	2680.5	1375.0	788.9	696.9	638.3	595.7	559.2	559.2
37.5°	15333.8	13275.8	6806.0	2716.9	1356.3	733.3	667.1	608.1	568.8	533.8	527.6
40°	16464.7	14204.3	6972.4	2751.9	1344.8	700.2	643.1	589.4	553.0	518.0	508.4
42.5°	17426.7	14967.8	7121.1	2769.2	1306.9	696.9	625.9	576.5	541.9	503.6	494.5
45°	18138.0	15607.6	7281.3	2796.1	1269.0	709.8	625.9	575.0	532.4	495.9	486.3
47.5°	18773.0	16358.7	7548.9	2796.1	1223.0	685.8	646.5	576.5	530.9	492.5	484.9
50°	19623.8	17388.4	8055.8	2731.3	1158.2	660.4	681.0	570.2	516.5	486.3	476.7
52.5°	20795.9	18708.2	8860.6	2618.6	1058.5	611.5	676.2	567.4	502.1	470.5	459.5
55°	22182.5	20121.1	9738.3	2487.2	909.3	576.5	652.7	559.2	486.3	451.3	440.3
57.5°	23264.4	21093.8	10356.0	2284.3	779.4	557.8	578.4	551.5	467.1	430.7	421.6
60°	23695.1	21055.9	10525.8	2013.4	716.0	541.9	505.5	617.7	451.3	414.9	403.8
62.5°	23462.5	20083.3	10050.5	1823.4	701.7	521.3	473.8	571.7	438.8	403.8	388.0
65°	22386.8	18359.6	8791.1	1772.6	742.9	500.7	453.2	448.4	421.6	388.0	372.2
67.5°	20043.4	15783.6	7038.6	1777.4	795.2	480.1	432.6	410.5	397.6	370.7	356.3
70°	16325.6	12479.2	5246.8	1790.3	822.0	456.1	410.5	386.6	372.2	345.3	335.7
72.5°	12003.9	9617.9	3811.9	1707.9	826.8	429.2	380.3	359.7	345.3	317.0	308.9
75°	8212.7	7357.1	2644.0	1414.8	720.8	391.4	346.8	328.0	318.5	283.4	278.6
77.5°	5999.3	5522.6	1692.0	1050.3	555.9	343.9	306.0	291.6	285.4	247.0	240.8
80°	4814.7	4369.2	1058.5	719.4	407.2	288.2	256.6	248.9	242.2	204.3	199.5
82.5°	3339.5	2926.0	679.6	467.1	306.0	223.5	202.9	199.5	189.9	155.4	150.6
85°	1761.6	1588.9	430.7	318.5	221.6	153.5	141.0	141.0	136.2	103.1	99.8
87.5°	224.9	365.9	218.7	166.4	121.8	68.1	68.1	66.7	71.5	58.5	50.8
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°	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8
2.5°	7868.8	7945.1	7872.2	7877.0	7957.5	8198.3	8307.6	8397.8	8494.7	8558.0	8586.3
5°	5703.4	5880.9	5940.8	6067.4	6254.5	6561.9	6683.7	6772.4	6831.4	6866.0	6880.3
7.5°	3900.6	4008.0	4128.4	4332.7	4739.9	4920.7	5001.3	4980.6	4914.5	4890.5	4867.0
10°	2940.4	2897.7	2875.2	2987.9	3317.4	3499.6	3556.7	3501.1	3464.6	3472.8	3512.1
12.5°	2278.1	2203.8	2113.6	2100.6	2317.9	2481.0	2517.4	2520.3	2587.0	2645.5	2732.8
15°	1660.4	1652.2	1608.1	1581.2	1704.5	1837.8	1853.7	1882.0	1942.4	1985.1	2060.8
17.5°	1170.7	1213.4	1248.4	1265.7	1359.2	1454.1	1436.9	1422.5	1411.5	1411.5	1447.9
20°	944.3	972.6	1017.2	1067.6	1163.0	1229.2	1186.5	1129.5	1088.2	1075.7	1080.5
22.5°	850.8	872.9	898.3	942.4	1028.3	1074.3	1028.3	987.0	945.8	931.4	926.6
25°	803.3	831.6	855.6	888.7	952.0	983.7	939.5	909.3	883.9	866.6	853.7
27.5°	776.5	801.4	808.1	824.0	877.7	906.0	883.9	871.4	855.6	839.8	824.0
30°	747.7	742.9	731.9	733.3	776.5	804.8	803.3	806.2	804.8	800.0	797.1
32.5°	683.0	673.4	663.8	673.4	712.7	738.1	740.0	746.3	746.3	744.8	757.3
35°	568.8	586.1	597.1	625.9	673.4	695.4	685.8	670.0	641.7	624.0	622.5
37.5°	526.1	529.0	548.2	587.5	640.3	660.4	646.5	610.1	590.9	587.5	592.3
40°	505.5	508.4	519.4	555.9	608.1	628.8	616.3	589.4	571.7	570.2	578.4
42.5°	491.1	494.5	500.7	526.1	568.8	594.2	595.7	576.5	555.9	557.8	565.4
45°	483.0	484.9	483.0	495.9	535.2	565.4	578.4	565.4	548.2	551.5	560.7
47.5°	481.5	476.7	470.5	473.8	515.1	544.8	560.7	555.9	548.2	551.5	559.2
50°	475.3	464.3	456.1	454.7	495.9	527.6	541.9	541.9	544.8	551.5	559.2
52.5°	456.1	443.6	443.6	438.8	483.0	513.2	522.8	524.2	529.0	540.0	551.5
55°	432.6	427.8	432.6	424.4	473.8	502.1	506.9	510.3	513.2	522.8	538.6
57.5°	412.0	405.7	416.8	413.4	465.7	491.1	491.1	497.3	497.3	510.3	522.8
60°	400.9	388.0	392.8	396.1	454.7	481.5	478.6	484.9	487.8	499.3	508.4
62.5°	386.6	375.5	375.5	383.2	442.2	467.1	465.7	470.5	483.0	486.3	495.9
65°	369.3	364.5	359.7	369.3	429.2	451.3	453.2	459.5	470.5	473.8	481.5
67.5°	351.5	353.5	343.9	353.5	418.2	435.5	435.5	448.4	453.2	459.5	467.1
70°	332.8	334.3	326.1	337.6	410.5	418.2	416.8	434.0	437.4	442.2	449.9
72.5°	308.9	308.9	306.0	321.8	397.6	400.9	397.6	412.0	413.4	418.2	421.6
75°	283.4	283.4	280.6	302.6	389.9	381.8	372.2	383.2	386.6	389.9	389.9
77.5°	250.4	253.7	253.7	280.6	362.6	374.1	342.0	348.7	353.5	354.9	350.1
80°	209.1	217.3	220.1	255.1	304.1	345.3	306.0	310.3	312.2	312.2	306.0
82.5°	160.2	174.1	182.2	220.1	233.1	289.7	266.2	271.0	266.2	256.6	253.7
85°	110.8	130.0	139.6	167.9	176.0	223.5	221.6	221.6	212.5	199.5	198.1
87.5°	60.4	71.5	77.7	99.8	120.4	150.6	163.1	158.3	150.6	142.4	144.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8
2.5°	8735.4	8950.8	9294.6	9557.5	9822.2	10077.4	10353.1	10563.7	10742.6	10812.6	11024.6
5°	7024.7	7293.8	7618.4	8204.5	8619.9	9077.4	9606.9	10307.1	10576.1	10948.8	11558.4
7.5°	4966.7	5210.4	5733.1	6207.0	6795.0	7442.9	8157.0	9123.4	9476.9	10074.0	11067.3
10°	3708.7	3992.2	4411.8	4811.3	5329.3	5991.6	6812.2	7892.8	8322.0	8970.0	10113.8
12.5°	2987.9	3322.2	3767.3	4142.8	4543.7	5010.9	5808.0	6992.6	7568.1	8135.0	9291.3
15°	2295.4	2645.5	3059.4	3536.1	3977.8	4481.9	5316.8	6612.7	7274.6	7865.9	8852.5
17.5°	1588.9	1888.2	2409.5	2906.9	3472.8	4117.4	5180.6	6693.3	7483.7	8165.2	8928.7
20°	1126.6	1297.3	1725.1	2302.1	3007.1	3816.2	5155.2	7117.7	8146.0	8923.9	9416.5
22.5°	947.2	1010.5	1259.4	1788.4	2602.8	3591.2	5243.9	7713.4	9039.5	10032.8	10194.4
25°	863.3	901.6	1031.1	1403.8	2243.1	3428.2	5543.2	8600.7	10145.5	11142.1	11113.3
27.5°	817.2	857.0	942.4	1185.1	1972.6	3327.0	5842.5	9652.9	11409.7	12345.9	11991.0
30°	803.3	857.0	947.2	1117.0	1779.3	3166.8	6088.0	10576.1	12382.3	13158.8	12390.5
32.5°	792.3	800.0	841.2	963.0	1595.1	2979.8	6254.5	11404.9	13334.3	13931.9	12965.5
35°	640.3	679.6	746.3	863.3	1487.7	2867.5	6254.5	12119.5	14272.4	14712.7	13513.7
37.5°	616.3	651.3	709.8	809.6	1427.3	2811.9	6129.3	12808.7	15230.7	15598.5	13965.0
40°	603.8	632.1	687.7	768.3	1401.9	2748.6	5947.0	13416.8	16166.8	16485.3	14386.6
42.5°	594.2	619.6	671.9	742.9	1368.8	2679.0	5799.8	13904.6	16979.8	17242.6	14788.9
45°	589.4	616.3	673.4	755.8	1302.1	2587.0	5750.9	14432.1	17648.3	17874.7	15224.4
47.5°	589.4	621.1	681.0	782.7	1223.0	2492.0	5904.4	15128.0	18280.4	18391.2	15737.6
50°	584.6	619.6	703.6	755.8	1107.4	2371.6	6265.5	16003.8	18964.8	18977.3	16387.5
52.5°	575.0	616.3	757.3	740.0	974.1	2213.4	6753.7	17128.9	19977.3	20053.0	17404.2
55°	564.0	611.5	742.9	703.6	865.2	2024.9	7152.8	18495.8	21399.8	21610.3	18900.1
57.5°	549.6	605.3	719.4	652.7	793.7	1782.2	7297.1	19497.2	22393.0	22922.0	20585.4
60°	537.2	600.5	649.4	622.5	749.1	1577.9	7018.0	19299.1	22324.9	23465.4	22079.3
62.5°	524.2	605.3	592.3	603.8	728.5	1446.5	6289.5	17713.1	21195.4	22904.7	23186.7
65°	510.3	562.6	559.2	587.5	724.2	1394.2	5213.7	15335.2	19012.3	21132.1	23448.1
67.5°	491.1	519.4	535.2	567.4	740.0	1348.2	4207.5	12649.9	15978.4	18475.2	22085.6
70°	470.5	494.5	511.7	541.9	730.4	1327.5	3499.6	9975.7	12678.7	15141.9	19397.4
72.5°	443.6	464.3	480.1	508.4	720.8	1316.5	2956.3	8033.8	9465.9	11248.1	15771.2
75°	412.0	430.7	442.2	470.5	690.6	1205.7	2324.1	6797.9	7083.2	7824.7	12561.2
77.5°	375.5	389.9	399.0	430.7	611.5	1002.8	1681.0	5243.9	5500.5	5680.9	9630.4
80°	332.8	346.8	351.5	381.8	506.9	784.1	1096.4	3873.3	4114.0	4155.3	6289.5
82.5°	283.4	297.8	297.8	326.1	414.9	564.0	719.4	2653.6	2701.1	2840.7	4445.4
85°	228.3	239.3	239.3	253.7	321.8	421.6	494.5	1332.3	1317.9	1505.0	3851.2
87.5°	163.1	171.2	178.9	182.2	229.7	278.6	297.8	405.7	267.6	307.4	2472.8
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°	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8	9736.8
2.5°	11184.8	11274.9	11182.8	11116.7	10829.8	10593.9	10278.3	10116.7
5°	12022.6	12252.3	12174.6	11896.0	11297.0	10623.6	9858.7	9513.3
7.5°	11921.4	12455.2	12467.7	11946.8	11064.4	10072.6	9036.6	8545.5
10°	11132.5	11814.9	12010.1	11504.6	10568.5	9459.6	8271.2	7710.5
12.5°	10251.5	10920.0	11069.2	10894.6	10112.4	8998.3	7793.0	7242.9
15°	9530.6	9830.4	10007.3	10159.8	9721.0	8814.6	7765.7	7162.3
17.5°	9091.8	9058.7	9109.5	9373.8	9448.1	9025.1	8177.7	7512.5
20°	8933.5	8425.1	8412.2	8776.7	9320.1	9527.7	8982.4	8183.9
22.5°	9020.8	8196.8	8092.3	8524.9	9388.2	10251.5	10037.6	9126.8
25°	9321.5	8216.0	8131.6	8550.3	9635.2	11023.1	11176.6	10346.4
27.5°	9795.4	8336.4	8225.1	8654.9	9963.2	11671.1	12298.4	11528.6
30°	10245.2	8545.5	8407.4	8860.6	10262.5	11927.7	12986.1	12450.4
32.5°	10792.0	8936.9	8694.2	9239.0	10633.2	12336.3	13599.1	13213.9
35°	11327.2	9494.2	9193.5	9823.6	11046.6	12845.1	14299.3	14189.9
37.5°	11915.2	10223.2	9974.2	10579.5	11612.6	13324.7	15192.8	15333.8
40°	12542.5	11189.5	10894.6	11682.1	12490.2	13927.1	16126.1	16464.7
42.5°	13174.6	12261.9	11910.4	12708.4	13454.7	14520.9	16924.1	17426.7
45°	13898.3	13426.4	13260.0	14123.3	14381.8	15086.8	17513.6	18138.0
47.5°	14741.5	14747.7	15015.3	15360.6	15316.5	15726.6	18106.3	18773.0
50°	15725.1	16396.6	16987.9	17217.2	16279.5	16414.3	18928.4	19623.8
52.5°	16906.9	18369.2	19101.0	18950.4	17317.4	17253.6	20230.5	20795.9
55°	18385.0	20457.3	21184.4	21076.5	18510.2	18397.5	21853.0	22182.5
57.5°	20095.7	22480.3	23148.9	22664.0	19942.3	19652.6	23194.9	23264.4
60°	21599.3	24083.6	24669.7	24132.5	21387.3	20987.8	24032.8	23695.1
62.5°	22435.7	24627.0	25039.0	24460.6	22377.2	22410.3	24216.4	23462.5
65°	22062.1	23253.4	23386.3	23338.8	22122.0	23235.7	23556.0	22386.8
67.5°	20015.2	19780.6	20004.1	20313.0	19936.0	22148.9	21725.9	20043.4
70°	16409.5	15121.3	15566.9	15774.0	15945.3	19059.8	18856.9	16325.6
72.5°	12366.5	10593.9	10945.4	10902.7	11694.6	15287.7	14665.2	12003.9
75°	8762.3	7183.0	7227.1	7209.8	8160.4	11960.7	10619.3	8212.7
77.5°	6130.7	5204.1	5228.1	5326.0	5486.1	9020.8	7586.8	5999.3
80°	4215.7	3949.5	4080.9	4089.1	3802.3	6059.7	5605.1	4814.7
82.5°	3139.9	2745.2	2713.6	2759.6	2979.8	4909.7	4307.3	3339.5
85°	2571.1	1625.4	1306.9	1638.3	2640.7	4862.2	2861.3	1761.6
87.5°	1447.9	771.7	348.7	646.5	1053.7	3219.1	826.8	224.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)