

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: P301735

Luminaire Tested: **GLNA-AF-10-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-10-LED-E1-T2R-7030-600  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38972.4 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

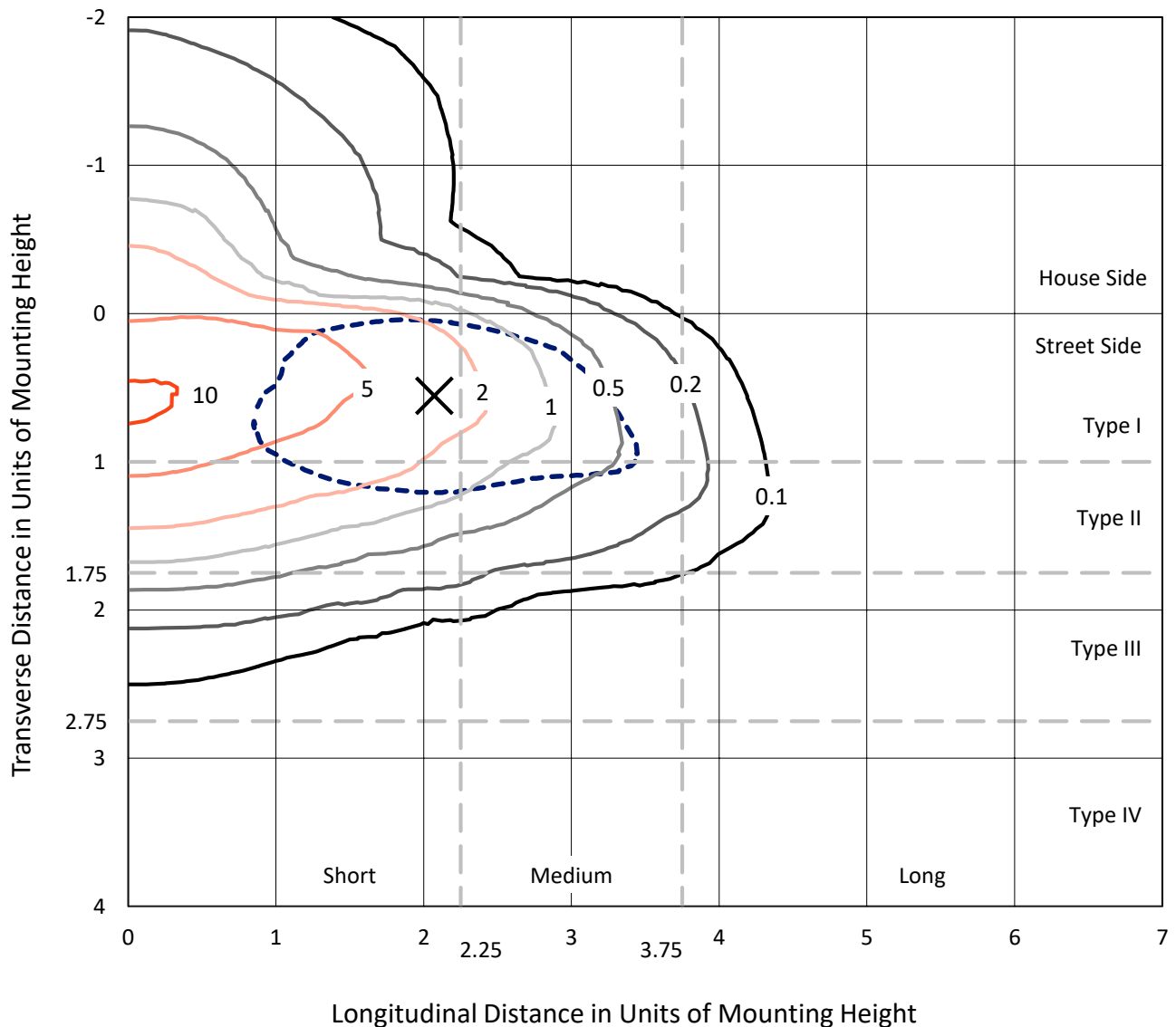
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

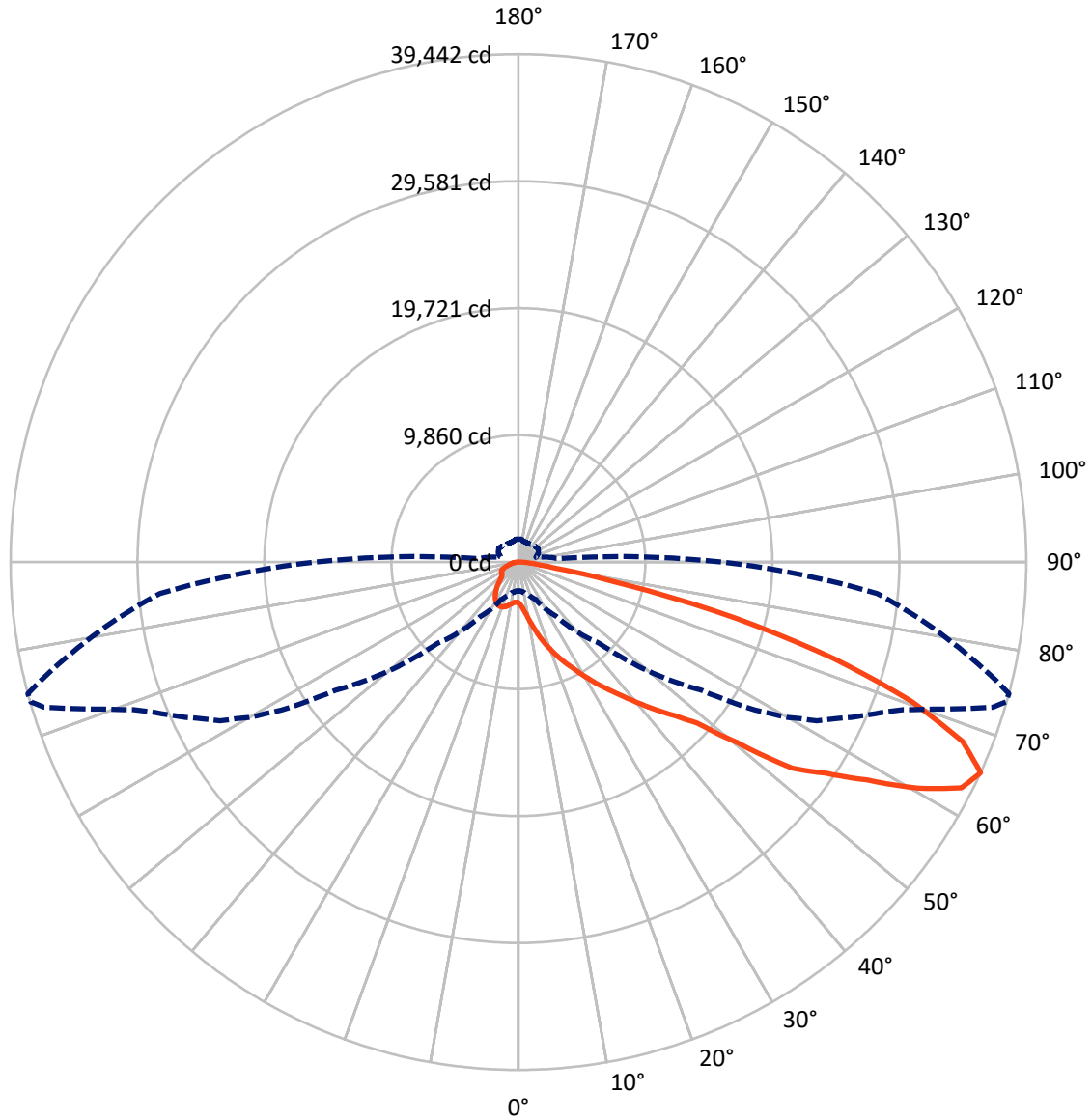
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6008.6	0.0	6008.6
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	32963.8	0.0	32963.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	38972.4	0.0	38972.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.5	1.0
10°-20°	1529.6	3.9
20°-30°	3138.3	8.1
30°-40°	5280.0	13.5
40°-50°	7295.4	18.7
50°-60°	9106.9	23.4
60°-70°	8195.2	21.0
70°-80°	3435.4	8.8
80°-90°	600.2	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°	38972.4	100.0
0°-180°	38972.4	100.0

**Coefficient of Utilization**



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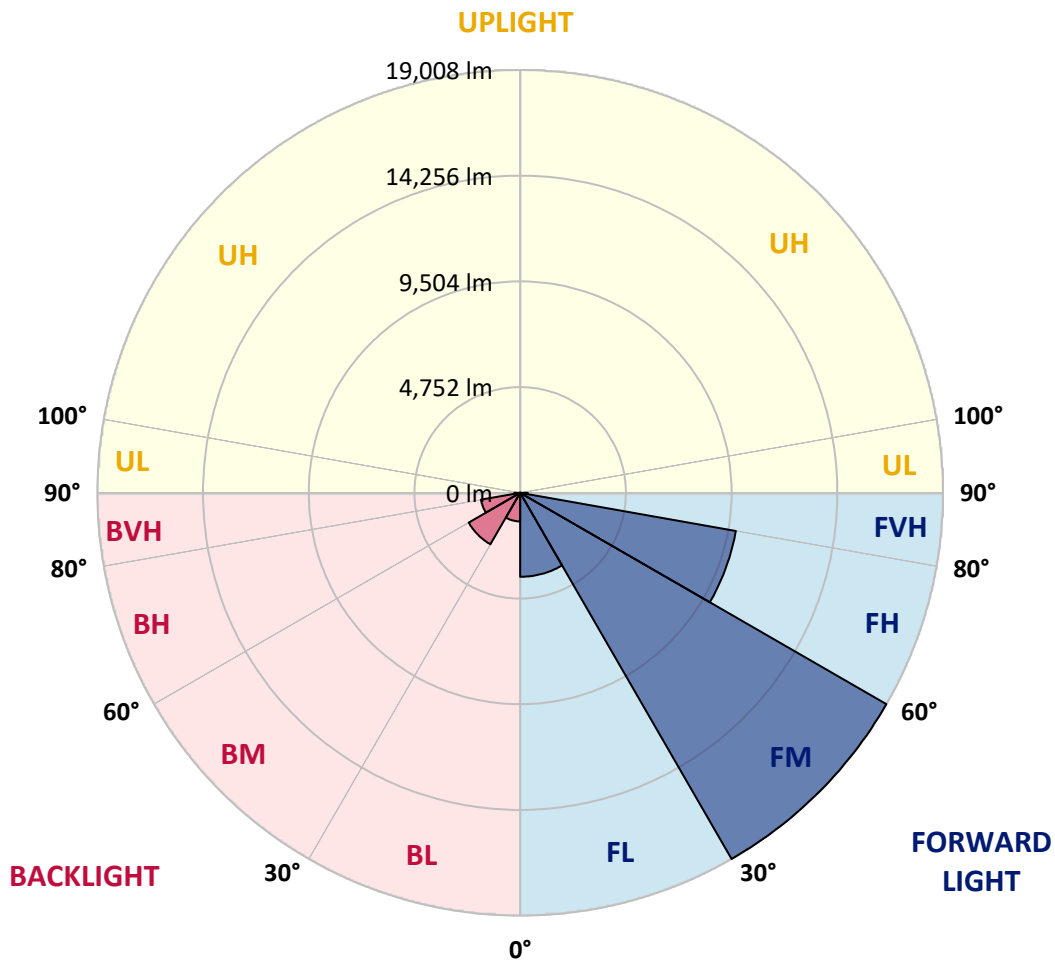
CATALOG NUMBER: GLNA-AF-10-LED-E1-T2R-7030-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3774.4	9.7			
FM	(30°-60°)	19007.8	48.8			
FH	(60°-80°)	9844.3	25.3			G4/12000
FVH	(80°-90°)	337.4	0.9			G3/500
BL	(0°-30°)	1285.0	3.3	B3/2500		
BM	(30°-60°)	2674.5	6.9	B3/5000		
BH	(60°-80°)	1786.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	262.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3
2.5°	4021.5	3977.1	3988.1	3914.2	3823.9	3705.7	3574.9	3573.3	3574.9	3561.8	3514.2
5°	5576.1	5523.0	5502.8	5336.4	5092.9	4746.5	4370.0	4329.5	4312.6	4270.4	4172.5
7.5°	6711.0	6681.4	6649.7	6524.4	6303.3	5915.9	5410.3	5323.8	5240.6	5220.4	5109.9
10°	7443.2	7435.5	7369.3	7335.9	7198.0	6862.0	6369.5	6286.4	6196.1	6164.9	6048.3
12.5°	8022.1	8020.5	7989.3	7998.6	7878.2	7635.2	7210.6	7135.1	7068.9	6972.6	6889.9
15°	8422.7	8424.3	8470.8	8522.3	8503.7	8339.5	7941.1	7907.7	7850.8	7784.6	7686.7
17.5°	8751.0	8760.3	8807.9	8902.0	9003.8	8990.7	8675.5	8647.6	8597.8	8507.5	8456.1
20°	9492.5	9527.5	9435.6	9435.6	9446.5	9496.3	9344.7	9322.8	9252.8	9204.6	9164.1
22.5°	10745.0	10785.5	10577.0	10365.3	10156.8	10005.2	9854.2	9881.5	9833.9	9800.5	9776.5
25°	12371.9	12403.6	12066.0	11708.1	11283.5	10730.3	10356.0	10339.0	10313.3	10293.0	10282.1
27.5°	13903.0	13916.1	13597.1	13072.9	12580.4	11785.3	10864.9	10844.6	10813.4	10774.6	10741.2
30°	15213.0	15209.2	14880.9	14380.7	13853.2	12973.3	11638.1	11575.2	11482.7	11377.6	11296.6
32.5°	16347.4	16341.9	15981.8	15463.6	14910.4	14150.3	12696.9	12567.8	12423.9	12218.7	12095.6
35°	17239.9	17236.6	16896.8	16356.7	15721.9	15259.0	13910.6	13752.0	13569.2	13294.5	13104.6
37.5°	17577.5	17577.5	17387.6	17018.8	16457.9	16140.5	15259.0	15066.9	14871.6	14559.6	14345.7
40°	17380.0	17383.8	17424.3	17356.4	17083.4	16839.9	16517.0	16402.6	16234.7	15954.5	15731.2
42.5°	16717.8	16738.1	17007.9	17337.8	17474.1	17435.8	17632.8	17581.3	17463.1	17247.5	17070.2
45°	15878.4	15941.3	16236.3	16860.1	17583.0	17950.2	18568.0	18573.4	18551.5	18435.5	18298.7
47.5°	14726.0	14814.1	15203.7	16046.4	17328.5	18450.3	19517.9	19567.7	19614.2	19538.7	19475.8
50°	13194.9	13300.0	13882.7	15000.7	16810.3	18968.5	21312.8	21538.2	21748.4	21722.6	21764.8
52.5°	11554.9	11678.6	12392.1	13637.6	15919.5	19088.4	22460.3	22827.5	23194.6	23495.0	23814.1
55°	10075.2	10009.0	10723.1	12034.3	14454.6	18547.7	23491.8	23934.5	24343.8	24712.6	25092.9
57.5°	8070.3	8179.2	8894.9	10191.8	12515.8	17022.1	24201.5	24849.4	25437.6	26048.3	26586.8
60°	5898.9	6007.8	6784.3	8101.5	10411.2	14709.0	23659.2	24640.9	25583.2	26518.4	27248.9
62.5°	3561.8	3643.3	4327.3	5582.1	8028.1	11966.4	21242.7	22530.3	23917.5	25035.4	26155.0
65°	2217.3	2263.3	2516.1	3206.1	5155.8	8933.8	17356.4	18760.0	20253.9	21672.8	22836.8
67.5°	1815.1	1831.5	1878.0	2025.2	2831.3	5825.6	12918.0	14161.3	15509.6	16882.0	18177.3
70°	1632.3	1621.4	1621.4	1630.7	1815.1	3132.2	8457.7	9267.6	10391.0	11584.5	12768.6
72.5°	1473.6	1462.7	1442.4	1415.1	1481.3	1910.9	4371.7	4982.4	5792.2	6852.7	7987.1
75°	1324.3	1309.5	1285.9	1250.9	1296.9	1442.4	2099.1	2355.7	2750.3	3315.0	3947.6
77.5°	1169.4	1150.8	1128.9	1103.2	1162.3	1121.8	1230.1	1322.6	1473.6	1654.8	1892.8
80°	994.3	977.9	970.2	957.6	1027.7	854.2	869.0	925.9	1014.5	1112.5	1223.0
82.5°	778.7	778.7	807.7	813.7	890.9	614.5	649.5	699.3	745.3	796.7	848.7
85°	512.7	516.6	616.2	655.0	702.6	413.1	487.0	503.4	540.6	570.2	592.1
87.5°	160.3	173.5	376.5	417.0	403.8	234.2	298.8	306.4	332.2	352.4	371.0
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3
2.5°	3514.2	3491.8	3471.5	3469.9	3455.1	3434.8	3442.0	3410.8	3412.4	3396.0	3377.4
5°	4132.0	4117.2	4043.3	4023.1	3967.8	3932.8	3927.3	3853.5	3844.2	3802.0	3755.5
7.5°	5021.2	4973.1	4869.6	4819.8	4725.7	4655.7	4622.8	4524.9	4476.7	4366.2	4316.4
10°	5952.6	5891.8	5764.3	5694.3	5604.0	5491.3	5430.5	5288.8	5233.0	5131.7	5010.3
12.5°	6816.1	6755.3	6624.0	6570.4	6450.5	6330.7	6264.5	6104.1	6031.9	5869.4	5773.6
15°	7614.4	7553.7	7439.3	7384.1	7264.2	7166.3	7077.6	6919.5	6834.7	6683.1	6557.8
17.5°	8389.3	8324.7	8225.1	8175.3	8059.3	7959.7	7864.0	7714.0	7627.6	7476.5	7363.8
20°	9108.9	9060.7	8989.0	8922.3	8806.3	8716.0	8601.6	8472.5	8347.2	8236.1	8129.4
22.5°	9736.0	9717.4	9640.2	9610.7	9511.1	9433.4	9333.8	9206.8	9116.0	8975.9	8876.3
25°	10276.6	10271.1	10233.9	10224.6	10154.6	10080.7	10058.8	9953.8	9870.6	9746.9	9644.0
27.5°	10741.2	10746.7	10737.9	10763.6	10745.0	10711.7	10713.8	10678.8	10630.7	10527.2	10437.0
30°	11257.8	11228.2	11245.2	11281.8	11292.8	11296.6	11357.4	11377.6	11374.3	11305.9	11261.6
32.5°	11988.3	11918.3	11853.7	11848.2	11884.9	11899.6	12003.1	12056.7	12102.7	12119.1	12126.7
35°	12919.7	12779.6	12645.0	12573.3	12510.3	12526.8	12600.6	12687.6	12788.9	12858.9	12942.1
37.5°	14092.9	13921.6	13683.6	13513.9	13471.2	13379.3	13426.9	13495.3	13594.9	13703.8	13847.7
40°	15515.1	15255.1	14987.6	14762.7	14641.2	14471.0	14469.4	14456.2	14517.5	14618.7	14821.8
42.5°	16884.2	16653.3	16369.3	16133.4	15974.7	15747.6	15701.7	15581.8	15609.2	15697.8	15895.4
45°	18165.8	17975.9	17802.4	17529.9	17394.7	17149.6	17071.9	16930.2	16850.8	16891.3	17088.9
47.5°	19407.4	19285.9	19104.8	18928.0	18824.6	18605.2	18505.6	18403.8	18302.6	18298.7	18505.6
50°	21827.7	21763.1	21549.2	21364.8	21414.6	21145.3	21161.7	20888.7	21012.4	21027.1	21460.5
52.5°	24101.9	24327.4	24486.0	24679.2	24805.1	24829.1	24911.8	25035.4	25184.8	25479.8	25882.0
55°	25404.3	25686.6	25850.8	25998.5	26242.0	26293.5	26431.9	26596.1	26726.9	27059.0	27400.5
57.5°	26952.3	27476.0	27730.5	27964.7	28293.0	28418.3	28649.2	28828.2	28997.8	29390.7	29803.8
60°	27905.6	28544.2	29062.4	29432.8	29844.3	30139.8	30488.4	30768.6	31166.9	31637.5	32253.7
62.5°	27147.7	28084.5	28772.9	29409.3	29968.0	30532.7	31032.3	31556.6	32161.2	32873.2	33829.1
65°	24128.2	25081.4	26260.1	26920.6	27660.4	28531.0	29291.1	30139.8	30963.9	32000.9	33413.8
67.5°	19424.3	20532.4	21857.2	22523.2	23373.6	24345.4	25198.0	26234.4	27197.5	28453.3	30200.6
70°	14000.9	15434.1	16548.2	17243.7	18236.4	19237.7	20060.8	21266.8	22063.5	23351.1	25157.5
72.5°	8865.4	9995.9	11361.2	12237.3	13118.8	14133.9	14975.0	16015.2	16758.3	17931.6	19567.7
75°	4766.8	5600.2	6799.1	7631.4	8575.9	9442.7	10427.7	11124.8	11674.7	12602.8	13930.9
77.5°	2233.7	2741.0	3347.8	3988.1	4628.3	5295.9	5945.4	6509.6	6746.0	7277.4	8061.0
80°	1356.0	1520.2	1696.9	1894.4	2162.0	2377.6	2663.8	2870.1	2884.9	3052.9	3292.6
82.5°	905.6	966.4	1020.0	1069.8	1138.2	1191.8	1252.6	1324.3	1353.8	1392.7	1470.4
85°	617.8	647.4	658.3	690.0	682.4	701.0	725.1	749.1	761.7	760.1	795.1
87.5°	379.8	394.5	402.2	409.3	403.8	396.7	407.7	420.8	424.1	413.1	417.0
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3
2.5°	3381.2	3364.8	3347.8	3336.9	3333.1	3235.7	3193.0	3165.6	3106.5	3058.4	3019.5
5°	3729.8	3694.8	3667.4	3634.0	3615.4	3368.1	3277.8	3215.4	3112.0	3051.2	2995.4
7.5°	4290.7	4192.7	4135.8	4071.2	4016.0	3569.5	3420.1	3322.1	3178.2	3097.2	3034.3
10°	4927.1	4825.9	4735.0	4635.4	4549.0	3837.0	3619.3	3467.7	3277.8	3172.7	3089.6
12.5°	5637.4	5537.8	5423.4	5295.9	5185.4	4176.3	3873.7	3658.1	3397.6	3257.5	3141.5
15°	6476.8	6301.1	6162.7	6015.5	5886.3	4582.3	4170.8	3872.1	3525.1	3335.3	3180.4
17.5°	7256.6	7072.2	6884.5	6755.3	6605.9	5037.6	4469.6	4089.3	3630.2	3385.0	3187.5
20°	8018.8	7817.5	7655.5	7482.0	7325.0	5509.9	4788.6	4281.4	3698.6	3386.7	3141.5
22.5°	8690.3	8564.4	8383.8	8195.6	8036.9	5982.1	5087.4	4443.9	3724.3	3344.6	3060.0
25°	9453.6	9321.2	9099.6	8940.9	8764.1	6463.7	5380.7	4569.2	3709.5	3265.2	2934.7
27.5°	10269.0	10121.8	9894.7	9728.9	9514.9	6963.3	5650.0	4659.5	3654.3	3136.1	2766.7
30°	11119.3	10984.7	10761.5	10594.0	10377.9	7493.0	5950.9	4720.2	3543.7	2957.1	2571.3
32.5°	12032.6	11919.9	11698.8	11523.7	11292.8	8066.4	6231.1	4738.8	3375.7	2744.8	2365.0
35°	12899.4	12822.2	12635.6	12471.5	12231.8	8608.7	6528.2	4729.5	3176.6	2512.2	2176.8
37.5°	13875.6	13829.1	13737.2	13528.7	13235.4	9344.7	6884.5	4690.7	2933.1	2281.9	2032.9
40°	14915.9	14919.7	14820.1	14677.8	14404.8	10237.8	7308.5	4615.2	2667.1	2078.9	1901.6
42.5°	16016.9	16074.3	16026.2	15924.9	15662.8	11137.9	7815.8	4523.2	2409.4	1881.3	1773.0
45°	17278.7	17348.8	17422.6	17273.3	17018.8	12325.9	8483.4	4403.4	2130.3	1717.1	1684.3
47.5°	18734.3	18844.9	18911.1	18913.3	18658.8	13797.9	9568.0	4331.2	1883.5	1606.6	1641.6
50°	21805.3	21840.8	21997.3	22270.4	22075.0	17204.9	11462.4	4286.9	1715.5	1538.2	1610.4
52.5°	26230.6	26616.3	26887.8	26869.2	26603.2	19368.5	12506.5	4058.1	1615.9	1512.5	1595.7
55°	28033.1	28514.6	29016.4	29148.8	28942.5	21215.4	13493.7	3829.4	1567.8	1531.1	1601.1
57.5°	30434.8	31246.3	31934.7	32224.2	31925.4	23578.2	14792.2	3709.5	1553.0	1580.9	1636.2
60°	33240.3	34243.9	35147.9	35667.8	35667.8	26293.5	16138.9	3659.7	1532.7	1654.8	1695.3
62.5°	35042.8	36516.5	37881.8	38643.5	38621.1	28184.1	16736.4	3490.1	1486.8	1706.2	1776.2
65°	35050.0	36802.7	38541.7	39398.1	39441.9	27952.1	15749.8	3082.4	1402.0	1713.9	1857.8
67.5°	32128.4	33996.6	36024.0	36981.6	37202.7	25731.0	13633.8	2534.7	1263.5	1640.0	1887.3
70°	27134.5	28959.0	31028.5	31969.7	32362.6	21934.4	10980.9	1953.5	1086.8	1477.5	1826.0
72.5°	21377.3	23166.7	24607.5	25295.4	25601.8	16766.0	7996.4	1475.8	890.9	1244.9	1661.9
75°	15135.3	16478.2	17243.7	17396.9	17444.5	10107.0	4858.7	1097.7	734.4	968.6	1403.6
77.5°	8542.5	9118.2	9055.2	9123.6	8555.6	3901.6	2116.1	785.8	605.2	736.0	1088.4
80°	3335.3	3438.7	3230.2	3165.6	2903.5	1451.8	933.5	547.8	483.2	557.1	761.7
82.5°	1470.4	1518.0	1473.6	1485.1	1420.6	749.1	558.7	396.7	368.8	407.7	505.6
85°	809.9	824.6	820.8	844.9	809.9	298.8	265.4	243.5	258.3	276.9	324.5
87.5°	394.5	398.4	385.8	406.0	392.9	151.0	130.8	138.4	151.0	154.9	154.9
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):**

	135°	145°	155°	165°	175°	180°
0°	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3
2.5°	2992.1	2977.4	2979.0	2975.2	2968.1	2968.1
5°	2966.4	2951.7	2951.7	2947.8	2938.5	2940.2
7.5°	2992.1	2968.1	2958.8	2945.6	2933.1	2933.1
10°	3021.7	2979.0	2953.3	2931.4	2914.4	2914.4
12.5°	3043.6	2977.4	2934.7	2905.1	2888.7	2888.7
15°	3051.2	2964.2	2905.1	2870.1	2855.3	2853.7
17.5°	3027.2	2914.4	2842.8	2802.3	2783.7	2778.2
20°	2953.3	2824.2	2737.7	2691.2	2665.5	2656.2
22.5°	2842.8	2695.0	2593.8	2545.6	2512.2	2506.8
25°	2687.9	2529.2	2429.6	2383.1	2365.0	2359.0
27.5°	2506.8	2359.0	2274.2	2244.7	2228.2	2226.6
30°	2335.5	2209.6	2147.3	2124.8	2104.6	2101.3
32.5°	2174.6	2095.3	2071.7	2040.0	1992.4	1986.9
35°	2060.2	2053.1	2036.7	1966.1	1907.6	1890.6
37.5°	1990.2	2058.6	1973.8	1835.3	1793.2	1789.4
40°	1949.7	2001.7	1855.6	1808.0	1811.3	1808.0
42.5°	1857.8	1910.9	1859.4	1837.5	1851.8	1855.6
45°	1765.3	1824.4	1887.3	1872.6	1907.6	1907.6
47.5°	1713.9	1802.0	1885.1	1885.1	1937.1	1955.2
50°	1654.8	1783.9	1855.6	1881.3	1922.4	1907.6
52.5°	1650.9	1752.2	1813.5	1859.4	1878.0	1861.1
55°	1656.4	1726.5	1770.8	1822.8	1844.6	1846.3
57.5°	1664.1	1711.7	1741.2	1765.3	1831.5	1831.5
60°	1682.1	1699.1	1715.5	1728.6	1815.1	1816.7
62.5°	1711.7	1686.0	1682.1	1695.3	1805.8	1798.7
65°	1758.2	1667.4	1640.0	1652.6	1796.5	1774.6
67.5°	1820.6	1640.0	1586.4	1595.7	1789.4	1741.2
70°	1878.0	1595.7	1520.2	1510.8	1719.3	1634.5
72.5°	1883.5	1544.2	1427.7	1400.3	1494.4	1412.9
75°	1791.0	1508.7	1326.4	1244.9	1234.0	1223.0
77.5°	1614.3	1488.4	1208.2	1080.7	1058.9	1066.0
80°	1350.5	1412.9	1066.0	914.9	1034.8	1022.2
82.5°	1009.1	1247.1	905.6	809.9	807.7	714.1
85°	560.9	972.4	737.6	606.9	422.4	409.3
87.5°	157.0	540.6	516.6	343.1	234.2	243.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)