

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: P298952

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298952  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)  
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-SLL-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left 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

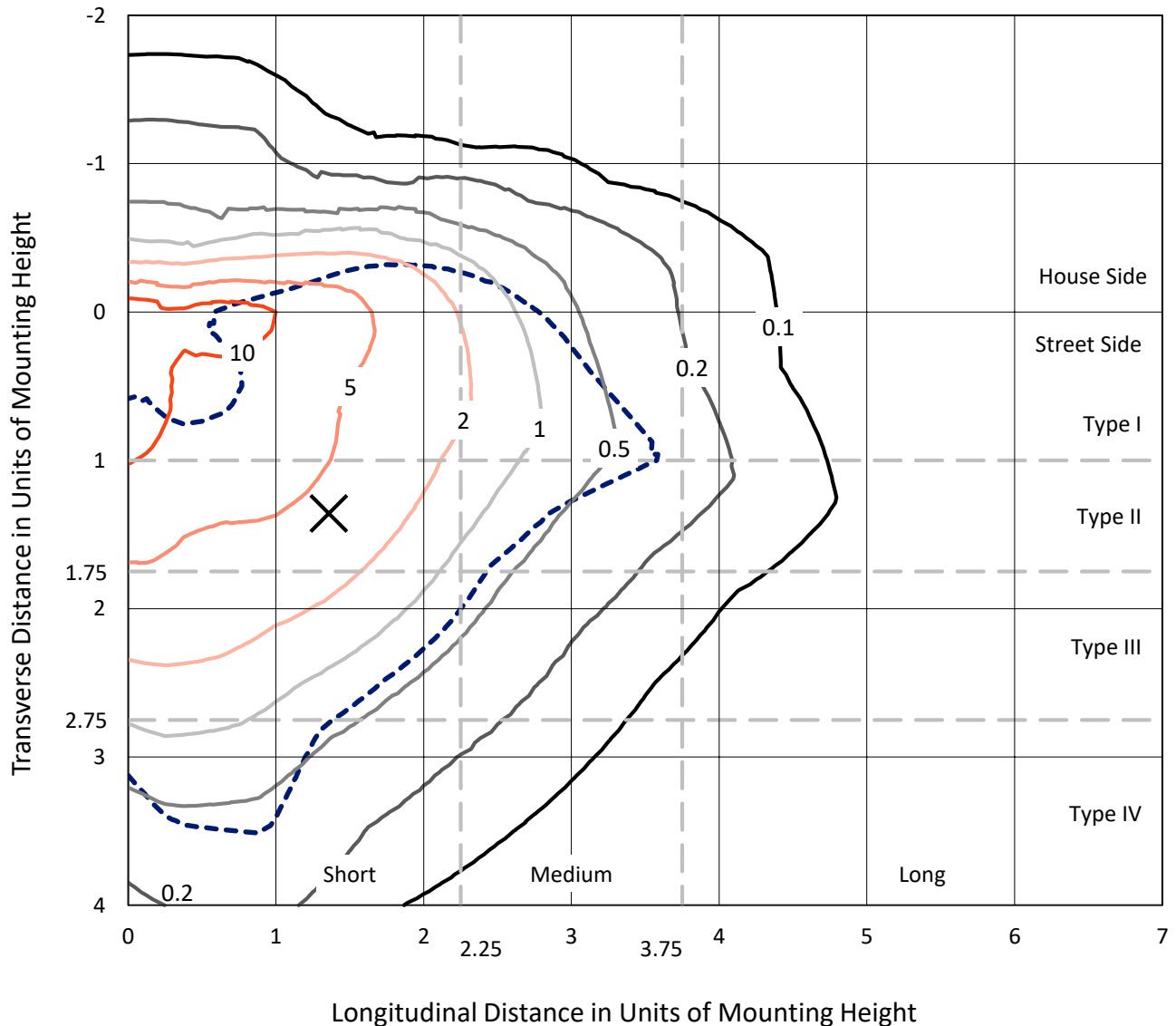


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### Iso-Footcandle Lines of Horizontal Illumination

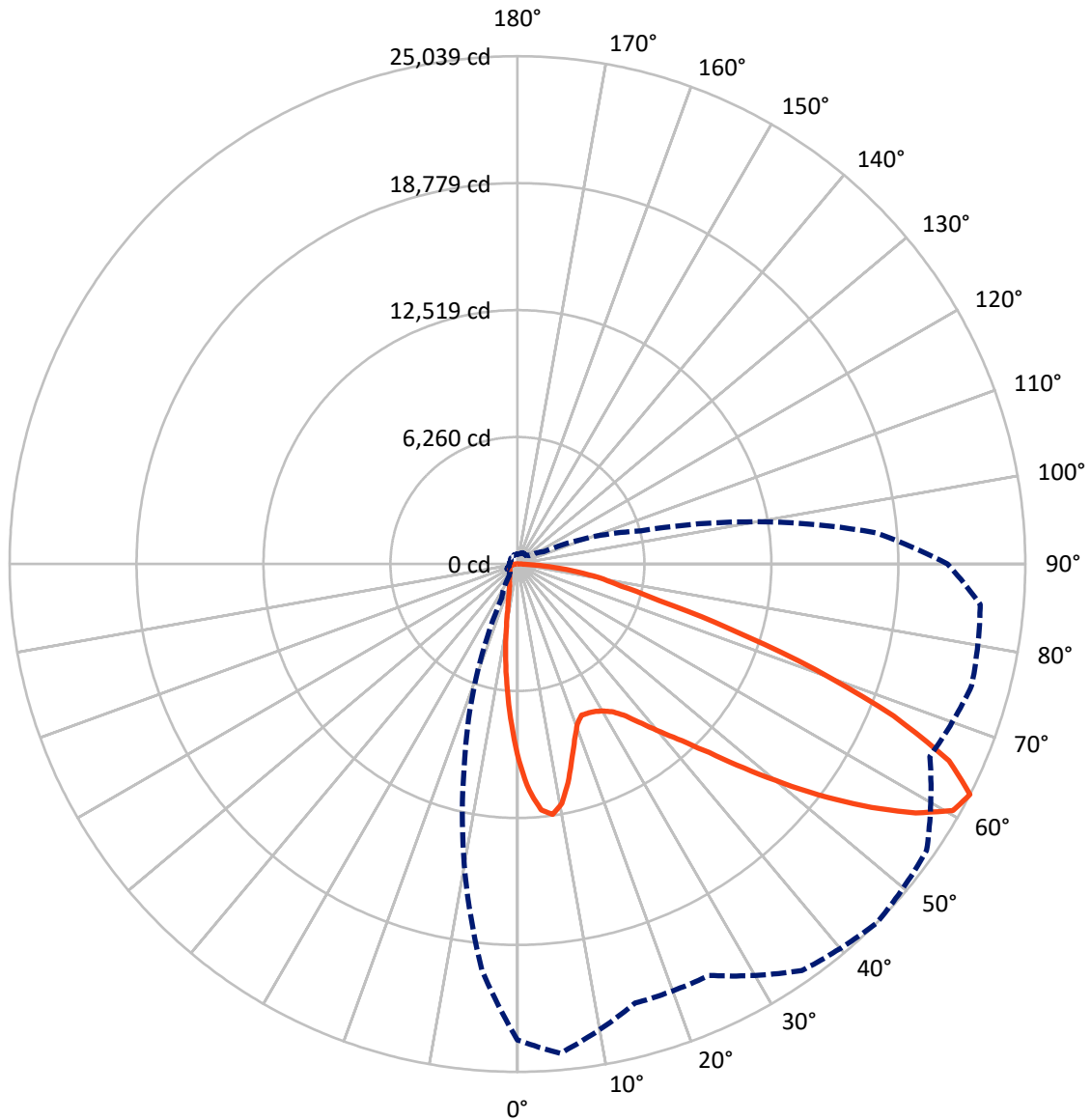
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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
<b>House Side</b>	Lumens	4769.2	0.0	4769.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	24050.0	0.0	24050.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	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°	4295.3	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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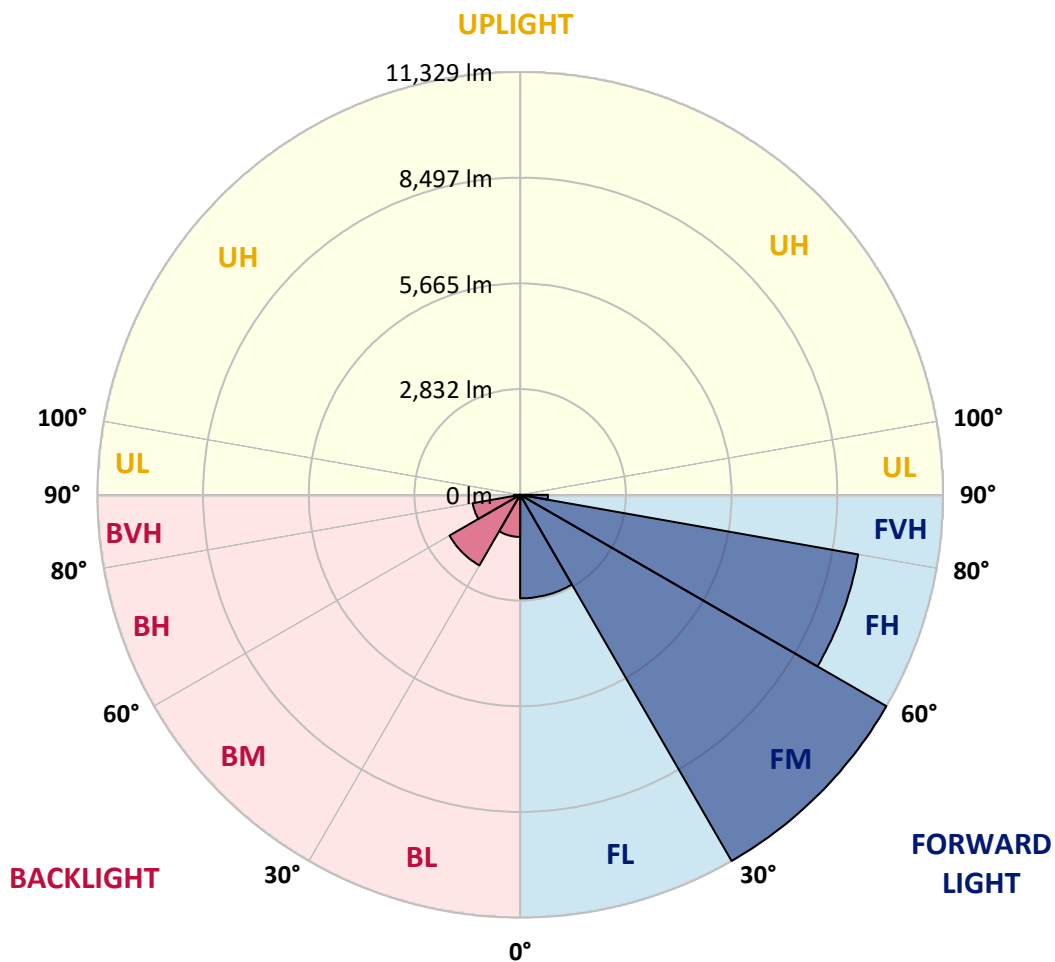
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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°	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0
2.5°	10116.5	10278.5	10593.8	10829.3	11116.8	11183.2	11275.2	11184.7	11024.8	10812.4	10742.9
5°	9513.3	9858.9	10623.6	11297.3	11896.0	12174.7	12252.9	12022.5	11558.6	10948.6	10576.3
7.5°	8545.4	9036.5	10072.3	11064.4	11946.4	12467.9	12455.0	11921.2	11067.5	10073.8	9476.8
10°	7710.2	8271.3	9459.8	10568.6	11504.6	12010.1	11814.7	11132.8	10113.4	8969.7	8322.2
12.5°	7243.2	7793.0	8998.5	10111.9	10894.6	11069.0	10919.8	10251.3	9291.1	8135.0	7567.7
15°	7162.0	7766.2	8814.9	9721.0	10159.7	10008.0	9830.1	9530.8	8852.4	7865.5	7274.6
17.5°	7512.7	8177.7	9025.7	9448.5	9373.9	9109.0	9058.6	9092.1	8929.0	8164.8	7483.9
20°	8184.4	8982.5	9527.7	9320.4	8776.8	8412.2	8425.0	8933.7	9416.6	8923.9	8145.8
22.5°	9126.5	10037.8	10251.3	9388.3	8524.8	8092.3	8197.2	9021.1	10194.7	10033.2	9039.6
25°	10346.4	11177.0	11023.2	9635.2	8550.0	8131.9	8215.7	9322.0	11113.2	11142.0	10145.8
27.5°	11528.3	12298.7	11670.7	9963.3	8654.9	8225.5	8336.6	9795.1	11991.1	12346.0	11410.0
30°	12450.4	12986.3	11927.3	10262.6	8860.6	8407.6	8545.4	10245.1	12390.7	13158.5	12382.5
32.5°	13214.1	13598.8	12336.2	10633.4	9239.2	8694.0	8936.8	10791.8	12965.7	13932.0	13334.4
35°	14189.7	14299.2	12844.8	11046.9	9823.9	9193.4	9494.2	11327.2	13513.9	14712.7	14272.5
37.5°	15334.0	15193.1	13324.7	11612.6	10579.9	9974.1	10223.0	11915.0	13964.9	15598.3	15230.6
40°	16464.9	16125.5	13927.4	12490.0	11682.5	10894.6	11189.3	12542.4	14386.7	16485.5	16167.1
42.5°	17426.6	16924.1	14520.9	13454.8	12708.5	11910.4	12262.1	13174.5	14788.8	17242.5	16979.7
45°	18137.9	17513.5	15086.6	14381.5	14123.3	13259.9	13426.5	13898.1	15224.4	17875.1	17648.3
47.5°	18773.0	18106.0	15726.4	15316.5	15360.7	15015.1	14747.2	14741.0	15738.2	18391.4	18280.3
50°	19623.6	18928.3	16414.0	16279.2	17217.3	16987.4	16396.5	15724.8	16387.2	18977.7	18964.8
52.5°	20796.2	20231.0	17253.8	17317.1	18951.0	19101.1	18368.8	16907.2	17404.0	20053.1	19977.5
55°	22182.7	21852.6	18398.1	18510.2	21076.5	21184.5	20456.8	18384.7	18900.0	21610.8	21400.0
57.5°	23264.3	23194.8	19652.4	19942.5	22664.1	23149.1	22480.5	20096.3	20585.4	22922.3	22393.1
60°	23695.2	24032.6	20988.0	21387.1	24132.9	24669.3	24083.5	21599.0	22079.4	23465.9	22325.2
62.5°	23462.8	24216.2	22410.6	22377.1	24460.5	25038.6	24626.6	22435.8	23187.1	22904.8	21195.8
65°	22386.9	23555.9	23236.0	22122.0	23338.8	23386.2	23253.0	22061.9	23448.4	21132.0	19012.2
67.5°	20043.3	21726.0	22148.8	19936.3	20312.8	20004.2	19780.5	20015.0	22085.5	18475.2	15978.4
70°	16325.5	18857.4	19059.5	15945.5	15774.2	15566.4	15121.6	16409.3	19397.4	15142.1	12678.7
72.5°	12004.0	14665.4	15287.7	11694.9	10902.9	10945.0	10593.8	12366.0	15771.1	11248.0	9466.0
75°	8212.6	10619.0	11961.3	8160.2	7210.3	7227.3	7182.5	8762.4	12561.5	7824.4	7083.3
77.5°	5999.7	7586.8	9021.1	5485.9	5326.0	5227.7	5204.1	6130.8	9630.5	5681.3	5500.3
80°	4814.2	5605.2	6059.3	3802.1	4088.6	4080.9	3949.2	4215.6	6289.2	4155.4	4113.8
82.5°	3339.8	4307.7	4909.4	2979.8	2759.7	2713.4	2745.8	3139.7	4445.5	2840.4	2701.0
85°	1761.9	2861.0	4862.1	2640.9	1638.0	1306.8	1625.7	2570.9	3851.5	1505.3	1317.6
87.5°	225.3	827.0	3218.9	1053.8	646.5	348.2	771.9	1447.7	2473.2	307.0	267.9
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0
2.5°	10564.0	10353.1	10077.4	9821.8	9557.5	9294.2	8950.6	8735.2	8586.5	8557.7	8495.0
5°	10307.3	9606.9	9077.7	8620.0	8204.9	7618.1	7293.6	7024.1	6880.1	6866.2	6831.3
7.5°	9123.4	8157.1	7442.8	6794.8	6206.9	5733.3	5210.2	4967.0	4866.7	4890.4	4914.0
10°	7892.2	6812.2	5991.4	5329.0	4811.2	4412.1	3992.4	3709.0	3512.1	3472.5	3464.7
12.5°	6992.8	5807.8	5011.2	4543.2	4143.1	3767.2	3322.3	2987.5	2732.9	2645.5	2587.4
15°	6612.2	5316.7	4482.0	3978.0	3535.7	3059.0	2645.5	2295.3	2061.3	1985.1	1942.5
17.5°	6693.4	5180.4	4117.4	3472.5	2907.3	2409.4	1888.5	1588.6	1447.7	1411.7	1411.7
20°	7118.2	5155.2	3816.0	3007.0	2301.4	1724.9	1297.5	1126.3	1080.5	1075.9	1088.2
22.5°	7713.8	5244.2	3591.8	2603.3	1788.7	1259.5	1010.6	947.3	926.7	931.9	945.8
25°	8600.9	5543.5	3428.7	2243.3	1403.5	1031.1	901.0	863.5	853.7	866.6	884.1
27.5°	9652.6	5842.8	3326.9	1972.3	1184.9	942.7	856.8	817.7	823.9	839.8	855.3
30°	10576.3	6088.6	3167.0	1779.4	1117.0	947.3	856.8	803.3	797.1	800.2	804.9
32.5°	11405.3	6254.8	2979.8	1595.3	963.3	841.4	800.2	792.5	757.0	744.2	746.2
35°	12119.7	6254.8	2867.7	1487.8	863.5	746.2	679.9	640.3	622.3	623.8	641.8
37.5°	12808.8	6129.3	2812.1	1427.1	809.5	709.7	651.1	616.1	592.5	587.8	590.9
40°	13416.7	5947.2	2748.9	1401.9	768.3	687.6	632.6	603.3	578.1	570.3	571.9
42.5°	13904.8	5799.6	2678.9	1369.0	742.6	671.7	619.2	594.0	565.7	557.5	555.9
45°	14432.4	5750.8	2587.4	1302.2	755.5	673.2	616.1	589.4	560.6	551.3	548.2
47.5°	15127.7	5904.5	2492.2	1223.0	782.7	681.4	620.7	589.4	559.0	551.3	548.2
50°	16003.6	6265.6	2371.4	1107.3	755.5	703.5	619.2	584.2	559.0	551.3	545.1
52.5°	17128.8	6753.6	2213.5	974.6	739.5	757.0	616.1	575.0	551.3	540.5	529.2
55°	18495.8	7152.7	2024.2	865.0	703.5	742.6	611.5	564.2	539.0	523.0	513.3
57.5°	19497.1	7296.7	1782.5	794.1	652.6	719.0	604.8	549.8	523.0	510.2	497.8
60°	19299.1	7018.0	1577.8	749.3	622.3	649.5	600.2	536.9	508.6	499.4	487.5
62.5°	17713.6	6289.2	1446.2	728.7	603.3	592.5	604.8	524.6	496.3	486.0	482.9
65°	15335.5	5213.3	1394.2	724.1	587.8	559.0	562.6	510.2	481.4	473.7	470.6
67.5°	12649.9	4207.9	1348.5	739.5	567.3	535.4	519.9	491.1	467.0	459.3	453.1
70°	9975.6	3499.7	1327.4	730.3	542.1	511.7	494.7	470.6	450.0	441.8	437.1
72.5°	8033.2	2956.1	1316.1	720.5	508.6	479.8	463.9	443.3	421.2	418.1	413.5
75°	6798.4	2324.1	1206.0	690.7	470.6	441.8	431.0	411.9	389.8	389.8	386.7
77.5°	5244.2	1680.7	1002.9	611.5	431.0	399.1	389.8	375.4	350.2	354.9	353.3
80°	3873.6	1096.5	784.3	507.1	382.1	351.8	346.6	332.7	305.5	312.2	312.2
82.5°	2653.7	719.0	564.2	415.0	326.1	297.8	297.8	283.4	253.5	256.6	266.4
85°	1332.5	494.7	421.2	321.4	253.5	239.1	239.1	228.3	198.0	199.5	212.4
87.5°	405.8	297.8	278.7	229.9	182.1	179.0	170.7	163.0	144.0	142.5	150.7
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°	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0
2.5°	8397.8	8307.3	8198.8	7957.6	7876.8	7871.7	7945.2	7868.6	8014.6	7952.9	8020.8
5°	6772.1	6684.2	6561.8	6254.8	6067.6	5940.5	5880.9	5703.4	5831.5	5737.9	5816.1
7.5°	4980.9	5001.4	4920.7	4740.2	4332.9	4128.7	4008.4	3900.4	3994.0	3984.2	4133.3
10°	3501.3	3556.3	3499.7	3317.7	2987.5	2875.4	2897.5	2940.2	3062.6	3125.3	3355.2
12.5°	2520.5	2517.4	2480.9	2317.9	2100.9	2113.2	2203.7	2277.8	2390.4	2457.3	2691.3
15°	1881.8	1853.5	1837.5	1704.3	1580.9	1608.2	1652.4	1660.1	1731.6	1771.2	1961.5
17.5°	1422.5	1436.9	1453.9	1359.3	1265.7	1248.2	1213.7	1170.5	1191.6	1199.3	1293.9
20°	1129.4	1186.5	1229.7	1162.8	1068.2	1016.7	972.5	944.2	944.2	942.7	969.4
22.5°	986.9	1028.1	1074.3	1028.1	942.7	897.9	872.7	850.6	847.5	847.5	872.7
25°	909.8	939.6	983.8	952.5	888.7	855.3	831.6	803.3	792.5	788.9	806.4
27.5°	871.2	884.1	906.2	877.4	823.9	807.9	801.8	776.6	761.7	753.9	771.9
30°	806.4	803.3	804.9	776.6	733.4	731.8	742.6	747.8	742.6	741.1	768.3
32.5°	746.2	739.5	738.0	712.8	673.2	663.9	673.2	683.0	693.8	709.7	741.1
35°	670.1	686.1	695.3	673.2	625.4	597.1	586.3	568.8	559.0	559.0	595.5
37.5°	609.9	646.5	660.9	640.3	587.8	548.2	529.2	526.1	527.7	533.8	568.8
40°	589.4	616.1	628.5	608.4	555.9	519.9	508.6	505.5	508.6	518.4	552.9
42.5°	576.5	595.5	594.0	568.8	526.1	500.9	494.7	491.1	494.7	504.0	542.1
45°	565.7	578.1	565.7	535.4	496.3	482.9	484.5	482.9	486.0	496.3	532.3
47.5°	555.9	560.6	545.1	514.8	473.7	470.6	476.7	481.4	484.5	493.2	530.7
50°	542.1	542.1	527.7	496.3	454.6	456.2	463.9	475.2	476.7	486.0	516.9
52.5°	524.6	523.0	513.3	482.9	438.7	443.3	443.3	456.2	459.3	470.6	502.5
55°	510.2	507.1	502.5	473.7	424.8	432.5	427.9	432.5	440.2	451.5	486.0
57.5°	497.8	491.1	491.1	465.4	413.5	416.6	405.8	411.9	421.2	431.0	467.0
60°	484.5	478.3	481.4	454.6	396.0	392.9	388.3	400.6	404.2	415.0	451.5
62.5°	470.6	465.4	467.0	441.8	383.7	375.4	375.4	386.7	388.3	404.2	438.7
65°	459.3	453.1	451.5	429.4	369.3	360.0	364.6	369.3	372.3	388.3	421.2
67.5°	448.5	435.6	435.6	418.1	353.3	343.5	353.3	351.8	356.9	370.8	397.5
70°	434.1	416.6	418.1	410.4	337.4	326.1	334.3	332.7	335.8	345.1	372.3
72.5°	411.9	397.5	400.6	397.5	321.4	305.5	308.6	308.6	308.6	316.8	345.1
75°	383.7	372.3	382.1	389.8	302.4	280.3	283.4	283.4	278.7	283.4	318.3
77.5°	348.2	342.0	373.9	363.1	280.3	253.5	253.5	250.5	241.2	247.4	284.9
80°	310.6	305.5	345.1	303.9	255.1	220.6	217.0	208.8	199.5	204.2	242.7
82.5°	271.0	266.4	290.1	233.0	220.6	182.1	174.3	159.9	150.7	155.3	189.8
85°	222.2	222.2	223.7	175.9	167.7	139.4	130.1	111.1	99.8	102.9	136.3
87.5°	158.4	163.0	150.7	120.3	99.8	77.7	71.5	60.2	50.4	58.6	71.5
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°	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0	9737.0
2.5°	8369.5	8543.8	8741.8	8994.9	9212.4	9568.3	9910.8	10116.5
5°	6257.8	6547.9	6908.4	7373.3	7805.8	8454.9	9099.8	9513.3
7.5°	4478.4	4789.0	5178.9	5758.5	6370.5	7198.5	8051.2	8545.4
10°	3706.0	4024.3	4351.9	4743.3	5244.2	6145.2	7152.7	7710.2
12.5°	3065.7	3406.1	3759.4	4171.4	4635.3	5440.1	6601.4	7243.2
15°	2346.2	2726.2	3142.8	3664.3	4245.4	5175.8	6465.1	7162.0
17.5°	1608.2	2033.0	2544.2	3187.5	3898.8	5089.9	6709.4	7512.7
20°	1107.3	1416.3	1963.0	2717.0	3572.7	5079.1	7177.9	8184.4
22.5°	926.7	1064.6	1463.7	2284.5	3326.9	5215.4	7905.6	9126.5
25°	856.8	939.6	1169.0	1909.0	3147.9	5529.1	8906.9	10346.4
27.5°	816.2	890.2	1061.5	1663.7	3007.0	5893.2	9881.0	11528.3
30°	831.6	907.7	1031.1	1538.2	2815.2	6197.2	10746.0	12450.4
32.5°	749.3	782.7	884.1	1427.1	2677.4	6452.2	11503.1	13214.1
35°	638.7	696.9	788.9	1375.2	2680.5	6623.5	12328.5	14189.7
37.5°	608.4	667.0	733.4	1356.2	2717.0	6806.1	13275.8	15334.0
40°	589.4	643.4	700.5	1345.4	2751.9	6972.2	14204.6	16464.9
42.5°	576.5	625.4	696.9	1306.8	2769.4	7121.3	14967.8	17426.6
45°	575.0	625.4	709.7	1268.7	2796.2	7281.3	15608.1	18137.9
47.5°	576.5	646.5	686.1	1223.0	2796.2	7548.7	16358.9	18773.0
50°	570.3	681.4	660.9	1158.2	2731.4	8055.8	17388.5	19623.6
52.5°	567.3	676.8	611.5	1058.4	2618.7	8860.6	18708.2	20796.2
55°	559.0	652.6	576.5	909.8	2487.6	9738.5	20121.5	22182.7
57.5°	551.3	578.1	557.5	779.7	2284.5	10356.2	21094.0	23264.3
60°	617.7	505.5	542.1	715.9	2013.4	10525.4	21056.4	23695.2
62.5°	571.9	473.7	521.5	702.0	1823.7	10050.2	20083.4	23462.8
65°	448.5	453.1	500.9	742.6	1772.7	8791.2	18359.5	22386.9
67.5°	410.4	432.5	479.8	795.6	1777.9	7038.5	15784.0	20043.3
70°	386.7	410.4	456.2	822.3	1790.2	5247.3	12478.7	16325.5
72.5°	360.0	380.6	429.4	827.0	1707.4	3811.4	9618.2	12004.0
75°	327.6	346.6	391.4	720.5	1414.8	2643.9	7357.4	8212.6
77.5°	291.6	305.5	343.5	555.9	1050.7	1692.0	5522.4	5999.7
80°	248.9	256.6	288.5	407.3	719.0	1058.4	4369.4	4814.2
82.5°	199.5	202.6	223.7	305.5	467.0	679.9	2926.3	3339.8
85°	140.9	140.9	153.8	222.2	318.3	431.0	1588.6	1761.9
87.5°	66.3	67.9	67.9	121.9	166.1	219.1	366.2	225.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)