

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: P530084

Luminaire Tested: **GALN-SA5B-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-735-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19770 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

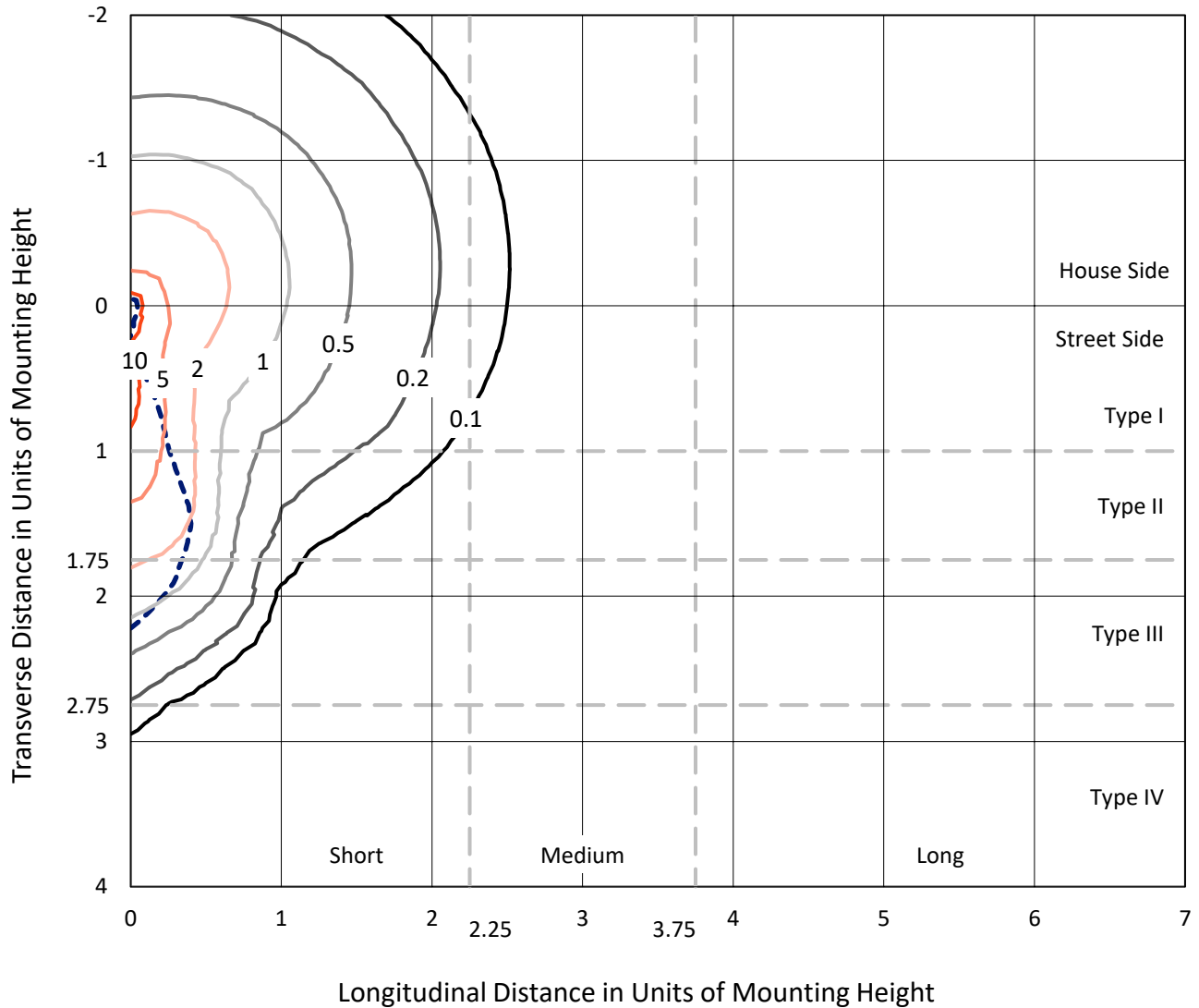
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

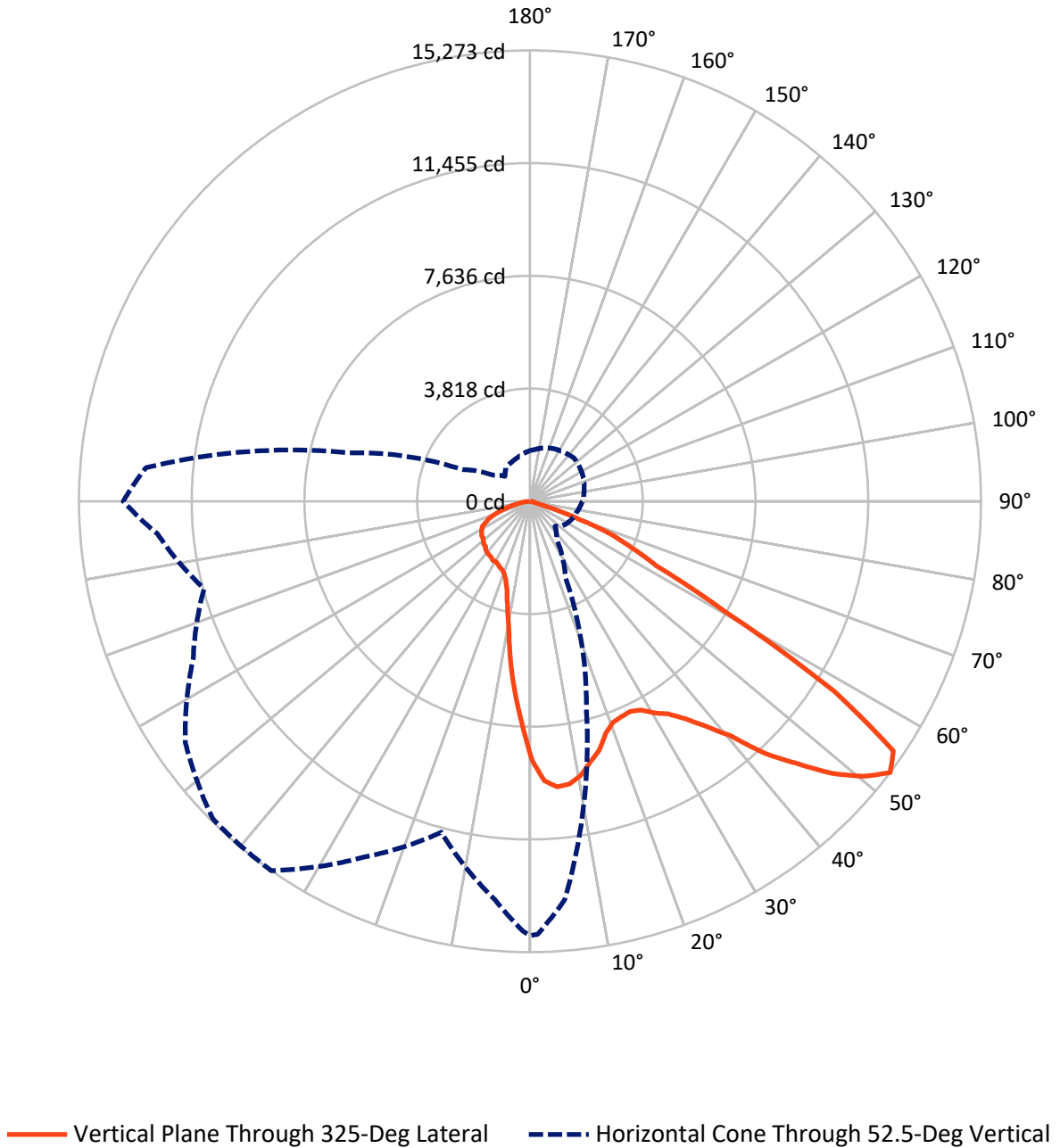
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5959.8	0.0	5959.8
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	13810.2	0.0	13810.2
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	19770.0	0.0	19770.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	669.4	3.4
10°-20°	1451.1	7.3
20°-30°	2192.5	11.1
30°-40°	3168.3	16.0
40°-50°	4216.4	21.3
50°-60°	4716.2	23.9
60°-70°	2658.0	13.4
70°-80°	592.5	3.0
80°-90°	105.5	0.5
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°	19770.0	100.0
0°-180°	19770.0	100.0

**Coefficient of Utilization**



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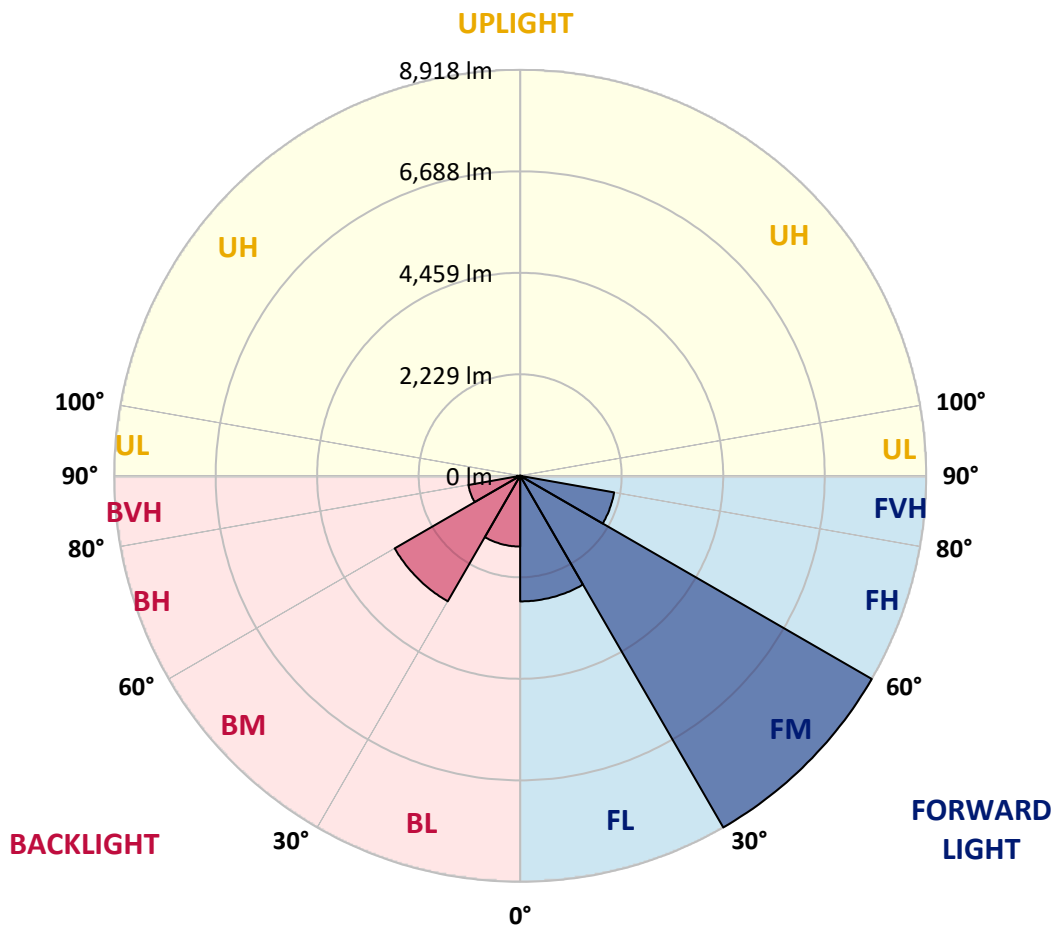
CATALOG NUMBER: GALN-SA5B-735-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2758.9	14.0			
FM (30°-60°)	8917.8	45.1			
FH (60°-80°)	2095.3	10.6			G2/5000
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	1554.2	7.9	B3/2500		
BM (30°-60°)	3183.1	16.1	B3/5000		
BH (60°-80°)	1155.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	67.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0
2.5°	8920.2	9063.5	8908.7	8633.6	8438.8	8261.1	8074.9	8037.6	7794.1	7751.1	7573.4
5°	8413.0	8381.5	8192.4	7831.3	7433.0	7072.0	6805.5	6547.6	6372.8	6169.3	6155.0
7.5°	7796.9	7613.5	7504.6	6957.3	6464.5	5897.1	5653.6	5261.0	5137.8	4954.4	4859.8
10°	7246.8	7112.1	6857.1	6309.7	5622.0	5246.7	4985.9	4773.9	4630.6	4441.5	4203.6
12.5°	6974.5	6920.1	6633.5	5785.4	5275.3	4874.2	4690.8	4484.4	4240.9	3937.1	3819.7
15°	7023.2	6839.9	6622.1	5685.1	4980.2	4593.3	4301.1	4043.2	3730.8	3441.4	3272.4
17.5°	7387.2	7246.8	6811.2	5748.1	4868.4	4309.7	3779.5	3398.4	3117.6	2856.9	2739.4
20°	8103.5	7900.1	7410.1	5828.4	4627.7	3914.2	3306.7	2836.8	2535.9	2398.4	2358.3
22.5°	8897.3	8776.9	7994.6	6008.9	4435.7	3547.4	2805.3	2335.4	2223.6	2186.3	2260.9
25°	9862.9	9550.6	8903.0	6304.0	4286.7	3235.1	2381.2	2120.4	2063.1	2100.4	2186.3
27.5°	10596.5	10513.4	9539.1	6582.0	4083.3	2859.7	2143.4	1971.4	1988.6	2025.9	2106.1
30°	11467.6	11046.4	10155.2	6774.0	3899.9	2601.8	1977.2	1931.3	1948.5	2011.6	2051.7
32.5°	11992.0	11834.4	10542.0	7063.4	3687.9	2378.3	1848.2	1805.2	1831.0	1925.6	2020.2
35°	12659.6	12347.3	11020.6	7137.9	3538.8	2289.5	1756.5	1725.0	1785.2	1851.1	1957.1
37.5°	13439.0	13224.1	11682.5	7086.3	3458.6	2197.8	1679.2	1664.8	1707.8	1799.5	1922.7
40°	13900.4	13834.5	12029.2	7117.8	3332.5	2117.6	1590.3	1607.5	1696.4	1768.0	1888.3
42.5°	14344.5	13914.7	12542.1	7106.3	3252.3	2008.7	1598.9	1578.9	1647.6	1730.7	1845.4
45°	14441.9	14015.0	12662.5	7026.1	3154.9	1902.7	1533.0	1541.6	1624.7	1727.9	1802.4
47.5°	14378.9	14063.7	12886.0	7003.2	3063.2	1828.2	1435.6	1538.8	1587.5	1670.6	1776.6
50°	14335.9	14318.7	13075.1	7112.1	2940.0	1710.7	1318.1	1501.5	1550.2	1633.3	1747.9
52.5°	14714.2	14676.9	13547.9	7398.6	2842.5	1584.6	1197.8	1406.9	1524.4	1604.7	1716.4
55°	14943.4	14780.1	14358.8	7751.1	2679.2	1418.4	1114.7	1289.5	1461.4	1533.0	1647.6
57.5°	13441.9	13330.1	12989.1	7235.3	2404.1	1200.6	1011.5	1169.1	1375.4	1487.2	1604.7
60°	11183.9	11009.1	10135.1	6149.3	1773.7	934.1	948.5	1074.5	1352.5	1395.5	1533.0
62.5°	10544.9	10112.2	8923.1	4948.7	1361.1	802.3	851.0	988.6	1232.1	1303.8	1441.3
65°	8367.2	8046.2	6384.3	3573.2	911.2	696.3	776.5	891.2	1063.1	1203.5	1329.6
67.5°	5238.1	4931.5	3407.0	1690.6	636.1	596.0	693.4	813.8	954.2	1080.3	1220.7
70°	2736.5	2401.3	1573.1	610.3	438.4	487.1	578.8	693.4	831.0	934.1	1043.0
72.5°	1020.1	828.1	512.9	263.6	303.7	372.5	469.9	553.0	650.5	776.5	836.7
75°	157.6	134.7	131.8	160.5	206.3	269.4	335.3	418.4	504.3	584.6	624.7
77.5°	74.5	71.6	80.2	106.0	137.5	192.0	243.6	323.8	392.6	444.1	467.1
80°	48.7	45.8	51.6	71.6	103.2	143.3	194.9	249.3	312.3	355.3	349.6
82.5°	28.7	31.5	31.5	48.7	71.6	103.2	140.4	189.1	232.1	269.4	246.4
85°	17.2	14.3	14.3	28.7	48.7	83.1	117.5	80.2	83.1	83.1	94.6
87.5°	5.7	5.7	5.7	2.9	5.7	5.7	8.6	14.3	17.2	20.1	25.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0
2.5°	7567.7	7656.5	7625.0	7513.2	7599.2	7613.5	7556.2	7753.9	7791.2	7731.0	7748.2
5°	6135.0	6157.9	6209.5	6318.3	6395.7	6487.4	6487.4	6493.1	6415.8	6610.6	6553.3
7.5°	4779.6	4793.9	4854.1	5086.2	5152.1	5326.9	5401.4	5349.8	5195.1	5129.2	5183.6
10°	4126.3	4043.2	4023.1	4051.8	4200.8	4275.3	4338.3	4321.1	4295.3	4243.8	4186.4
12.5°	3690.7	3630.5	3581.8	3513.1	3521.7	3593.3	3642.0	3601.9	3613.3	3624.8	3642.0
15°	3217.9	3174.9	3149.1	3046.0	3034.5	3083.2	3100.4	3123.4	3166.3	3169.2	3149.1
17.5°	2716.5	2679.2	2736.5	2793.8	2753.7	2756.6	2788.1	2808.2	2796.7	2745.1	2719.3
20°	2372.6	2412.7	2470.0	2524.5	2567.5	2593.2	2604.7	2573.2	2535.9	2429.9	2427.0
22.5°	2272.3	2323.9	2372.6	2455.7	2495.8	2561.7	2501.5	2429.9	2378.3	2326.8	2266.6
25°	2197.8	2240.8	2338.2	2369.7	2447.1	2501.5	2458.6	2386.9	2298.1	2223.6	2177.8
27.5°	2143.4	2192.1	2255.1	2341.1	2401.3	2432.8	2389.8	2361.1	2269.4	2180.6	2114.7
30°	2109.0	2160.6	2275.2	2346.8	2398.4	2424.2	2349.7	2315.3	2249.4	2174.9	2117.6
32.5°	2086.1	2131.9	2229.3	2321.0	2355.4	2355.4	2366.9	2326.8	2235.1	2109.0	2060.3
35°	2011.6	2074.6	2154.8	2260.9	2323.9	2361.1	2303.8	2258.0	2197.8	2068.9	1980.0
37.5°	1968.6	2011.6	2114.7	2215.0	2269.4	2309.6	2286.6	2206.4	2126.2	2020.2	1948.5
40°	1922.7	1991.5	2083.2	2177.8	2237.9	2278.0	2260.9	2166.3	2068.9	1968.6	1919.9
42.5°	1891.2	1937.1	2031.6	2137.6	2209.3	2286.6	2235.1	2117.6	2048.8	1911.3	1856.8
45°	1865.4	1939.9	2040.2	2083.2	2157.7	2237.9	2146.2	2074.6	1994.4	1894.1	1848.2
47.5°	1833.9	1902.7	1968.6	2083.2	2117.6	2154.8	2137.6	2023.0	1954.2	1845.4	1813.8
50°	1822.4	1848.2	1968.6	2031.6	2080.3	2117.6	2071.7	1985.8	1919.9	1808.1	1739.3
52.5°	1776.6	1825.3	1902.7	1985.8	2045.9	2091.8	2017.3	1962.8	1874.0	1756.5	1713.5
55°	1719.3	1747.9	1885.5	1971.4	2003.0	2034.5	2005.8	1917.0	1825.3	1705.0	1662.0
57.5°	1644.8	1710.7	1822.4	1942.8	1982.9	2000.1	1954.2	1882.6	1768.0	1662.0	1593.2
60°	1567.4	1636.2	1759.4	1856.8	1896.9	1960.0	1891.2	1848.2	1716.4	1598.9	1524.4
62.5°	1490.0	1567.4	1659.1	1782.3	1816.7	1842.5	1825.3	1765.1	1659.1	1527.3	1435.6
65°	1398.3	1455.7	1570.3	1633.3	1656.2	1716.4	1656.2	1633.3	1538.8	1412.7	1335.3
67.5°	1260.8	1309.5	1409.8	1470.0	1487.2	1513.0	1510.1	1484.3	1378.3	1292.3	1223.6
70°	1103.2	1146.2	1209.2	1280.9	1289.5	1321.0	1292.3	1286.6	1217.8	1100.3	1063.1
72.5°	885.4	925.5	1008.6	1040.2	1043.0	1054.5	1040.2	1020.1	1002.9	879.7	842.4
75°	679.1	702.0	742.2	770.8	770.8	785.1	776.5	756.5	710.6	633.3	596.0
77.5°	472.8	495.7	547.3	564.5	561.6	567.4	541.6	521.5	452.7	412.6	381.1
80°	343.9	358.2	384.0	395.4	398.3	406.9	375.4	358.2	318.1	272.2	257.9
82.5°	249.3	257.9	260.8	275.1	275.1	260.8	252.2	235.0	206.3	177.7	166.2
85°	103.2	106.0	108.9	126.1	128.9	154.7	143.3	134.7	117.5	100.3	91.7
87.5°	25.8	28.7	37.3	31.5	37.3	37.3	40.1	45.8	45.8	37.3	37.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0
2.5°	7814.1	7837.0	8129.3	8166.6	8309.8	8456.0	8751.1	8963.2	9135.1	9246.8	9278.4
5°	6613.5	6759.6	6894.3	7112.1	7309.8	7590.6	7914.4	8315.6	8819.9	9077.8	9180.9
7.5°	5177.9	5349.8	5544.7	5756.7	6046.1	6550.4	6983.1	7447.3	8092.1	8358.6	8762.6
10°	4226.6	4418.5	4676.4	4839.8	5189.4	5670.8	6175.1	6710.9	7327.0	7711.0	8178.0
12.5°	3736.6	3894.2	4132.0	4475.9	4736.6	5048.9	5424.3	6100.6	6983.1	7347.0	7668.0
15°	3195.0	3369.8	3644.9	4026.0	4338.3	4710.8	5132.0	5868.5	6808.3	7370.0	7642.2
17.5°	2748.0	2874.1	3163.5	3493.0	3851.2	4258.1	4862.7	5857.0	6991.7	7711.0	8155.1
20°	2438.5	2455.7	2613.3	2894.1	3381.2	3911.4	4696.5	5799.7	7579.1	8298.4	8860.0
22.5°	2243.7	2226.5	2229.3	2467.2	2808.2	3570.4	4435.7	5994.5	8246.8	9232.5	9610.8
25°	2146.2	2100.4	2071.7	2123.3	2432.8	3166.3	4238.0	6252.4	8966.0	10003.3	10467.5
27.5°	2094.7	2014.4	1957.1	1965.7	2192.1	2962.9	4114.8	6364.2	9679.5	11077.9	11241.2
30°	2074.6	1974.3	1891.2	1862.6	2011.6	2679.2	3851.2	6556.2	10318.5	11668.2	11808.6
32.5°	2003.0	1879.7	1799.5	1773.7	1833.9	2429.9	3662.1	6693.7	10883.0	12310.0	12261.3
35°	1919.9	1816.7	1716.4	1667.7	1710.7	2269.4	3510.2	6627.8	11547.8	12808.6	12782.8
37.5°	1911.3	1776.6	1693.5	1613.3	1610.4	2071.7	3303.9	6690.9	11971.9	13702.6	13350.2
40°	1836.8	1750.8	1641.9	1576.0	1538.8	1971.4	3103.3	6541.9	12593.7	14063.7	13717.0
42.5°	1839.6	1710.7	1616.1	1538.8	1501.5	1825.3	2965.8	6501.7	12811.5	14651.1	13888.9
45°	1793.8	1667.7	1587.5	1495.8	1475.7	1713.5	2833.9	6315.5	13195.5	14679.8	13674.0
47.5°	1747.9	1636.2	1550.2	1441.3	1395.5	1673.4	2730.8	6160.7	12994.9	14410.4	13376.0
50°	1716.4	1587.5	1507.2	1429.9	1300.9	1604.7	2596.1	6123.5	12714.1	14046.5	12822.9
52.5°	1662.0	1547.3	1464.3	1404.1	1197.8	1541.6	2544.5	6341.3	13057.9	13774.3	12662.5
55°	1610.4	1492.9	1386.9	1269.4	1111.8	1375.4	2401.3	6544.7	13559.4	14401.8	13390.3
57.5°	1555.9	1444.2	1329.6	1189.2	1028.7	1203.5	2252.3	6582.0	12619.5	13310.1	12711.2
60°	1484.3	1341.0	1255.1	1071.7	939.9	997.2	1785.2	5802.6	9788.4	11115.1	11135.2
62.5°	1404.1	1249.3	1174.8	959.9	848.2	859.6	1455.7	4877.0	7940.2	9201.0	9748.3
65°	1298.1	1149.1	1060.2	888.3	782.3	745.0	1066.0	3573.2	6031.8	7464.5	8086.3
67.5°	1160.5	1020.1	908.4	773.7	699.2	639.0	727.8	2011.6	3561.8	5011.7	5200.8
70°	1014.4	894.0	776.5	664.8	581.7	538.7	533.0	891.2	1702.1	2696.4	3068.9
72.5°	799.5	713.5	618.9	535.8	481.4	418.4	381.1	369.6	576.0	1097.5	1515.8
75°	573.1	501.5	447.0	392.6	352.5	318.1	289.4	263.6	240.7	275.1	378.2
77.5°	361.0	335.3	292.3	277.9	255.0	246.4	235.0	220.6	203.4	192.0	192.0
80°	243.6	226.4	212.0	209.2	200.6	197.7	200.6	186.3	169.1	154.7	160.5
82.5°	163.3	160.5	157.6	154.7	157.6	160.5	166.2	163.3	149.0	140.4	143.3
85°	97.4	103.2	108.9	114.6	126.1	111.8	91.7	77.4	68.8	63.0	60.2
87.5°	37.3	51.6	45.8	43.0	45.8	43.0	40.1	37.3	31.5	28.7	28.7
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0	8774.0
2.5°	9487.5	9544.9	9593.6	9582.1	9481.8	9347.1	9292.7	9014.7	8957.4	8920.2
5°	9616.5	9948.9	10020.5	9977.5	9716.8	9387.3	9066.3	8659.4	8421.6	8413.0
7.5°	9378.7	9788.4	9917.4	10014.8	9668.1	9095.0	8544.8	7934.5	7785.5	7796.9
10°	8774.0	9427.4	9745.4	9845.7	9447.4	8951.7	8189.5	7570.6	7252.5	7246.8
12.5°	8438.8	8951.7	9040.5	9180.9	9063.5	8562.0	7983.2	7289.7	6980.3	6974.5
15°	8140.8	8478.9	8504.7	8702.4	8765.5	8427.3	8037.6	7298.3	7049.0	7023.2
17.5°	8401.5	8166.6	8069.1	8094.9	8281.2	8404.4	8352.8	7785.5	7530.4	7387.2
20°	8576.3	8052.0	7756.8	7785.5	8006.1	8456.0	8822.8	8490.4	8086.3	8103.5
22.5°	9043.4	8069.1	7607.8	7576.3	7925.9	8725.3	9352.9	9381.5	8991.8	8897.3
25°	9742.6	8266.9	7562.0	7553.4	7888.6	9014.7	9971.8	10436.0	10037.7	9862.9
27.5°	10304.2	8576.3	7705.2	7733.9	8006.1	9249.7	10499.1	11115.1	10811.4	10596.5
30°	10797.1	8897.3	7905.8	7774.0	8321.3	9372.9	10725.4	11888.8	11645.2	11467.6
32.5°	11000.5	9352.9	8223.9	8006.1	8582.1	9521.9	11195.4	12639.6	12430.4	11992.0
35°	11344.4	9607.9	8395.8	8378.6	9037.7	9880.1	11416.0	13135.3	13049.3	12659.6
37.5°	11619.5	9865.8	9006.2	8817.0	9662.3	10481.9	11771.3	13820.1	13622.4	13439.0
40°	11831.5	10327.1	9576.4	9825.7	10430.3	11029.2	12098.0	13863.1	14433.3	13900.4
42.5°	11636.6	10739.8	10513.4	11109.4	11682.5	11653.8	12135.2	14195.5	14622.5	14344.5
45°	11587.9	11438.9	11994.8	12536.4	12668.2	12172.5	11868.7	13828.7	14565.1	14441.9
47.5°	11470.4	12126.6	13095.2	13977.7	13777.1	12519.2	11550.7	13762.8	14599.5	14378.9
50°	11430.3	12275.6	13909.0	14768.6	14648.2	12820.1	11401.7	13338.7	14356.0	14335.9
52.5°	11427.5	12582.2	14247.1	15198.4	15272.9	13295.7	11605.1	13553.6	14545.1	14714.2
55°	11556.4	12484.8	14204.1	14960.6	14931.9	13083.7	11628.0	13696.9	14777.2	14943.4
57.5°	10900.2	11183.9	11722.6	12321.5	12166.8	10837.2	10384.4	12662.5	13562.2	13441.9
60°	9413.0	8524.8	7917.3	7888.6	7587.7	7172.3	8499.0	11301.4	11301.4	11183.9
62.5°	8243.9	5596.2	4808.2	4584.7	4799.7	5278.2	8198.1	10991.9	10679.6	10544.9
65°	7209.5	4272.4	3475.8	3412.8	3785.3	4507.4	7413.0	9364.3	8814.2	8367.2
67.5°	4639.2	3129.1	2584.6	2472.9	2922.8	3309.6	4934.3	5759.6	5412.9	5238.1
70°	2991.5	2037.3	1438.5	1349.6	1524.4	2040.2	3152.0	3358.3	2854.0	2736.5
72.5°	1415.5	879.7	504.3	415.5	467.1	779.4	1246.5	1341.0	1114.7	1020.1
75°	449.9	323.8	206.3	177.7	169.1	200.6	286.5	220.6	160.5	157.6
77.5°	200.6	192.0	163.3	137.5	120.3	100.3	83.1	68.8	71.6	74.5
80°	166.2	151.9	134.7	120.3	100.3	77.4	60.2	45.8	45.8	48.7
82.5°	146.1	131.8	117.5	100.3	86.0	63.0	45.8	31.5	28.7	28.7
85°	63.0	74.5	80.2	86.0	68.8	51.6	31.5	20.1	17.2	17.2
87.5°	25.8	22.9	20.1	17.2	14.3	14.3	11.5	8.6	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)