

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: P531150

Luminaire Tested: **GALN-SA6B-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531150
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-SA6B-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 19969 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

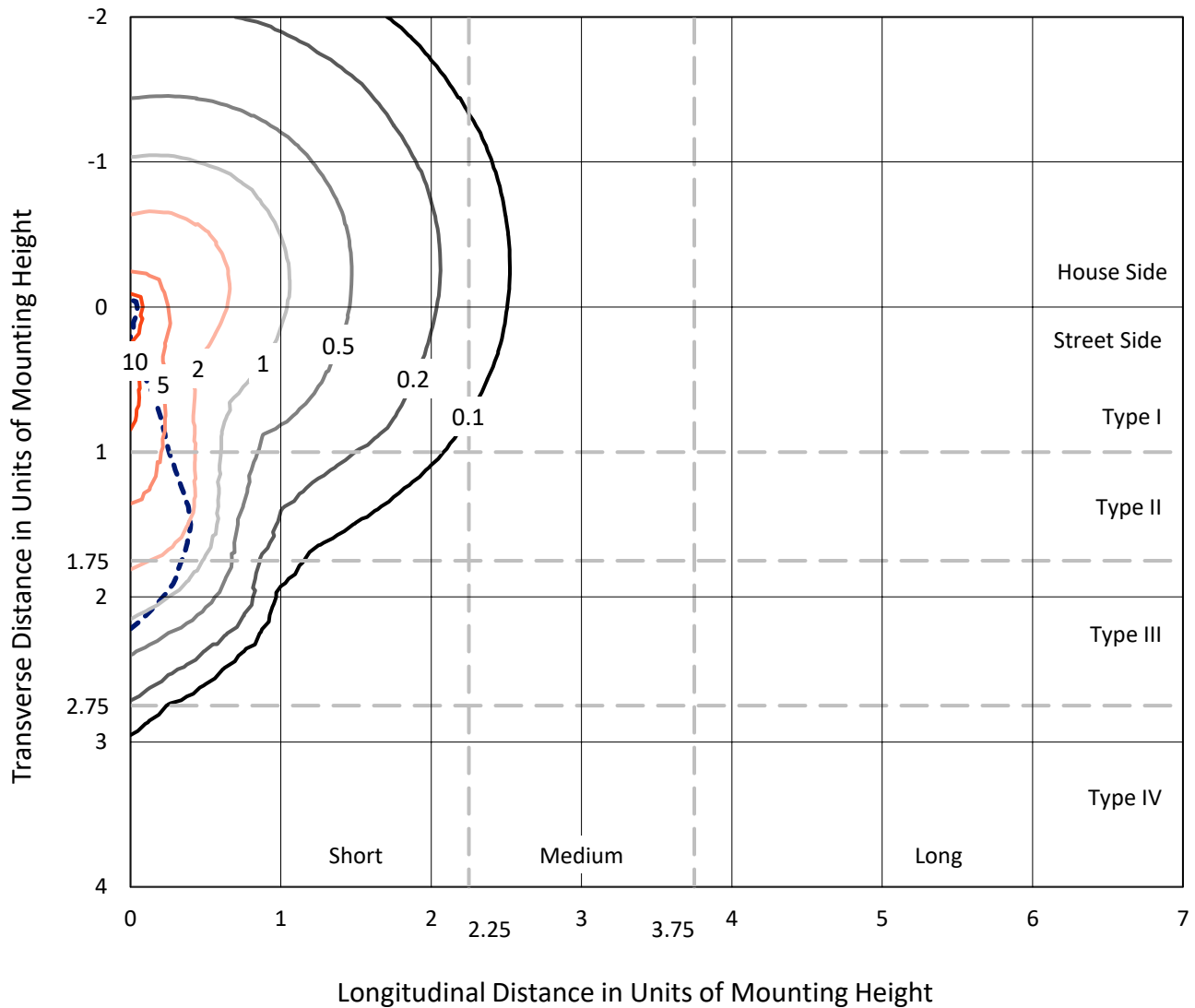
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

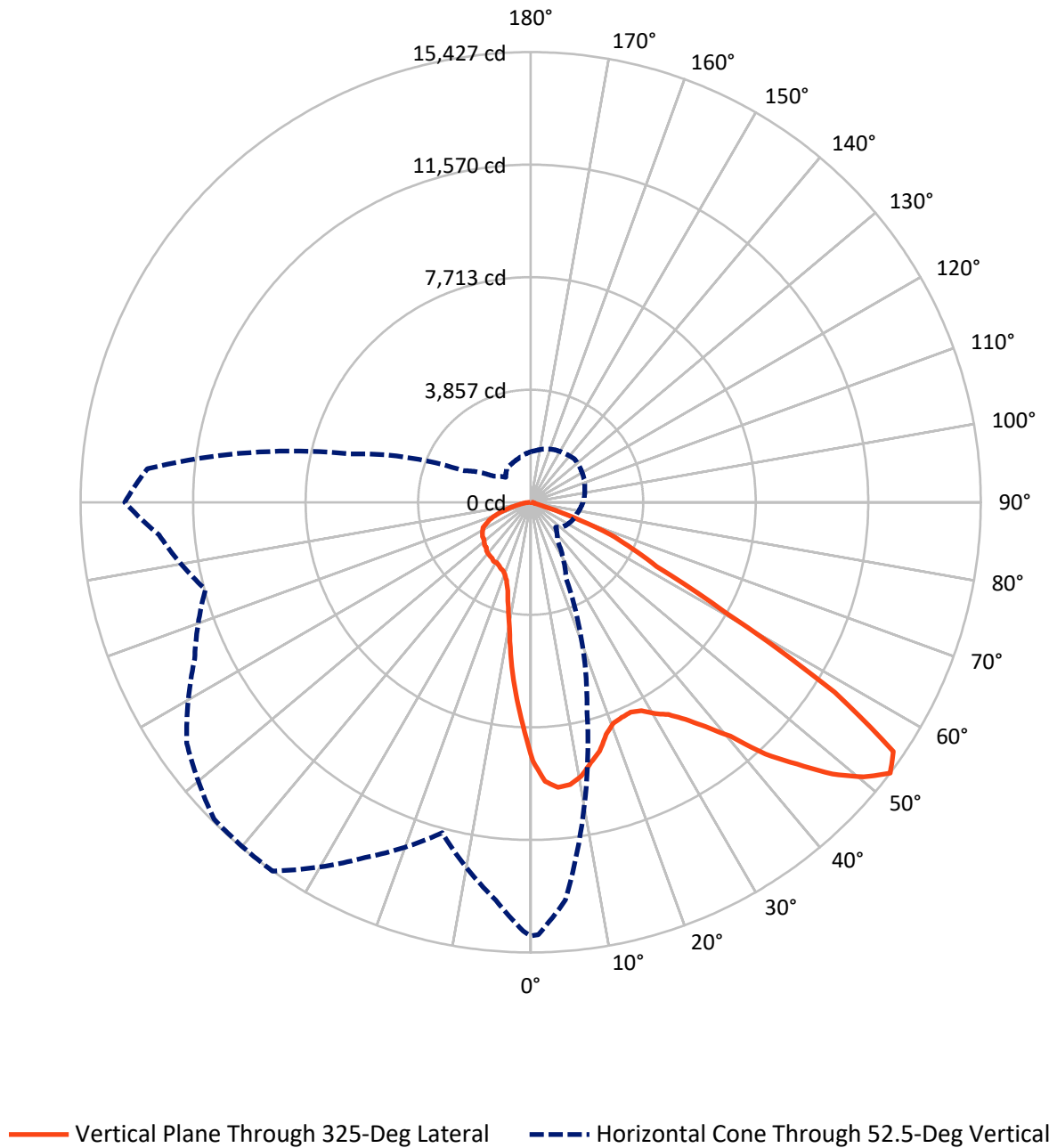
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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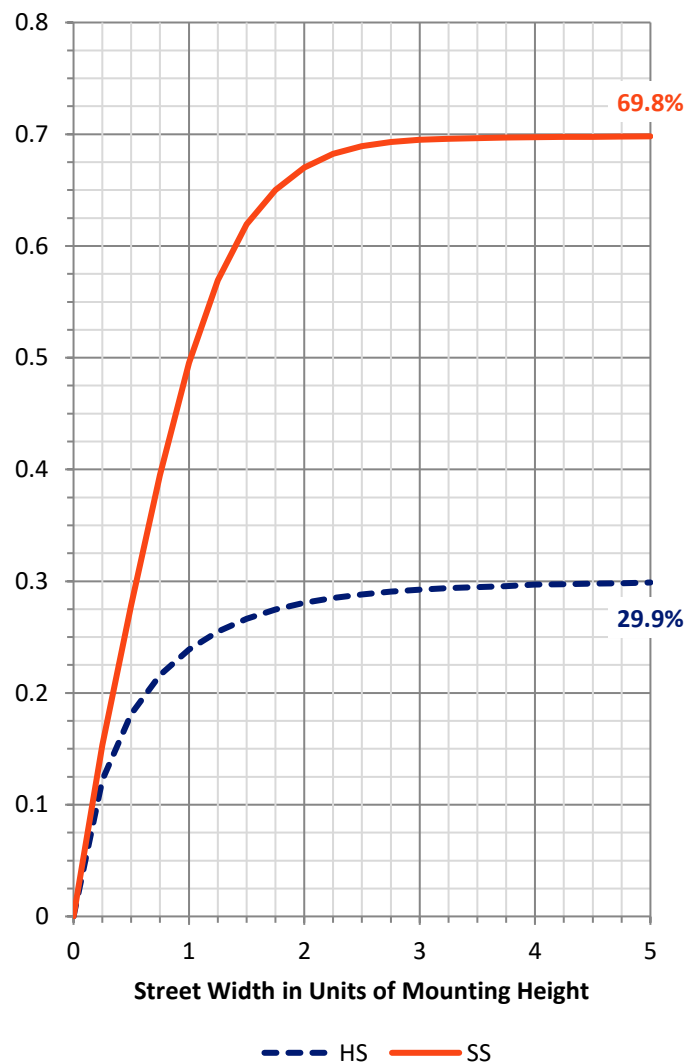
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6019.8	0.0	6019.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	13949.2	0.0	13949.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	19969.0	0.0	19969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.1	3.4
10°-20°	1465.7	7.3
20°-30°	2214.6	11.1
30°-40°	3200.2	16.0
40°-50°	4258.9	21.3
50°-60°	4763.7	23.9
60°-70°	2684.8	13.4
70°-80°	598.5	3.0
80°-90°	106.6	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°	19969.0	100.0
0°-180°	19969.0	100.0

Coefficient of Utilization



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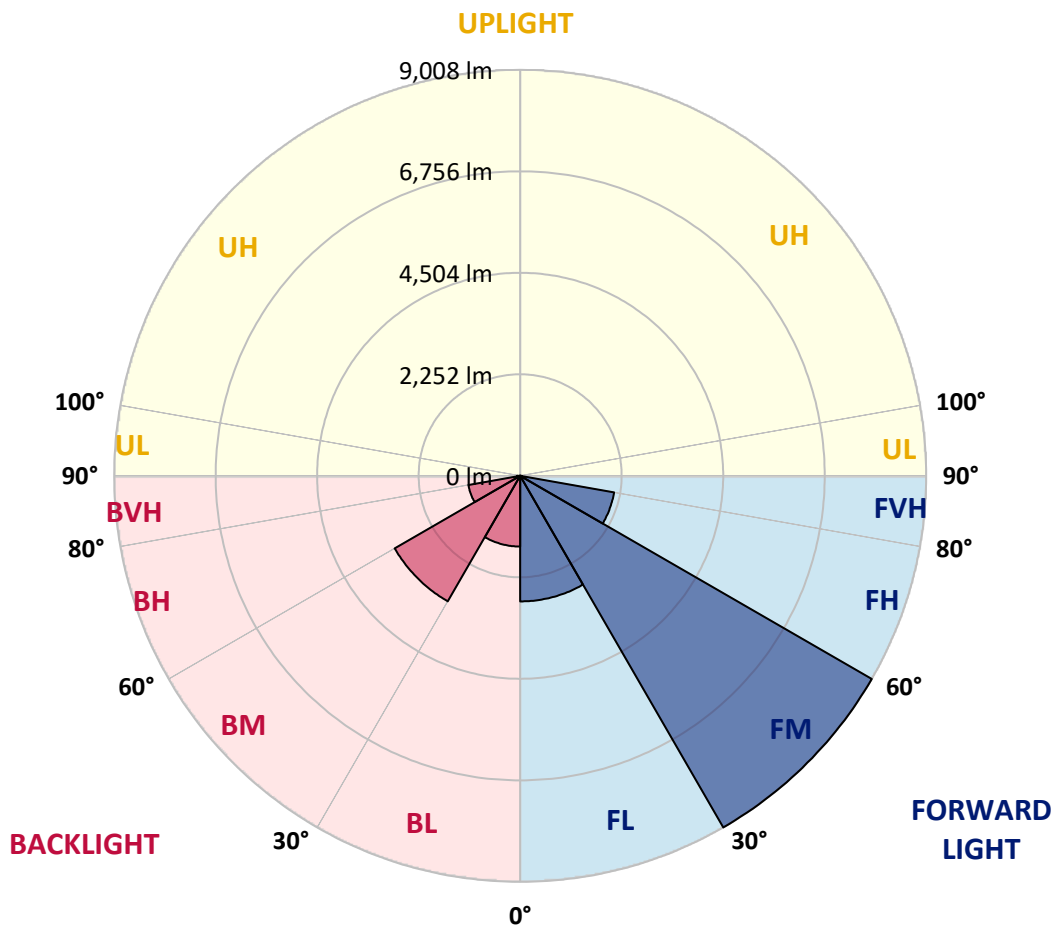
CATALOG NUMBER: GALN-SA6B-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2786.6	14.0			
FM	(30°-60°)	9007.6	45.1			
FH	(60°-80°)	2116.4	10.6			G2/5000
FVH	(80°-90°)	38.6	0.2			G1/100
BL	(0°-30°)	1569.8	7.9	B3/2500		
BM	(30°-60°)	3215.2	16.1	B3/5000		
BH	(60°-80°)	1166.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	68.0	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°	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4
2.5°	9010.0	9154.7	8998.4	8720.5	8523.7	8344.3	8156.2	8118.5	7872.5	7829.1	7649.7
5°	8497.7	8465.8	8274.8	7910.1	7507.8	7143.1	6874.0	6613.5	6436.9	6231.4	6217.0
7.5°	7875.4	7690.2	7580.2	7027.4	6529.6	5956.5	5710.5	5313.9	5189.5	5004.3	4908.7
10°	7319.7	7183.7	6926.1	6373.3	5678.6	5299.5	5036.1	4821.9	4677.2	4486.2	4245.9
12.5°	7044.7	6989.7	6700.3	5843.6	5328.4	4923.2	4738.0	4529.6	4283.6	3976.8	3858.1
15°	7093.9	6908.7	6688.7	5742.3	5030.3	4639.6	4344.4	4083.9	3768.4	3476.1	3305.3
17.5°	7461.5	7319.7	6879.8	5806.0	4917.4	4353.0	3817.6	3432.6	3149.0	2885.6	2767.0
20°	8185.1	7979.6	7484.7	5887.0	4674.3	3953.6	3340.0	2865.4	2561.5	2422.5	2382.0
22.5°	8986.8	8865.3	8075.1	6069.4	4480.4	3583.2	2833.5	2358.9	2246.0	2208.4	2283.6
25°	9962.2	9646.7	8992.6	6367.5	4329.9	3267.7	2405.2	2141.8	2083.9	2121.5	2208.4
27.5°	10703.1	10619.2	9635.1	6648.2	4124.4	2888.5	2164.9	1991.3	2008.6	2046.3	2127.3
30°	11583.0	11157.5	10257.4	6842.1	3939.2	2628.0	1997.1	1950.8	1968.1	2031.8	2072.3
32.5°	12112.7	11953.5	10648.2	7134.5	3725.0	2402.3	1866.8	1823.4	1849.5	1945.0	2040.5
35°	12787.0	12471.6	11131.5	7209.7	3574.5	2312.6	1774.2	1742.4	1803.2	1869.7	1976.8
37.5°	13574.3	13357.2	11800.1	7157.6	3493.4	2219.9	1696.1	1681.6	1725.0	1817.6	1942.1
40°	14040.3	13973.7	12150.3	7189.5	3366.1	2138.9	1606.3	1623.7	1713.4	1785.8	1907.3
42.5°	14488.9	14054.7	12668.4	7177.9	3285.0	2028.9	1615.0	1594.8	1664.2	1748.2	1863.9
45°	14587.3	14156.1	12789.9	7096.8	3186.6	1921.8	1548.5	1557.1	1641.1	1745.3	1820.5
47.5°	14523.6	14205.3	13015.7	7073.7	3094.0	1846.6	1450.0	1554.2	1603.4	1687.4	1794.5
50°	14480.2	14462.8	13206.7	7183.7	2969.6	1727.9	1331.4	1516.6	1565.8	1649.8	1765.5
52.5°	14862.3	14824.6	13684.3	7473.1	2871.2	1600.6	1209.8	1421.1	1539.8	1620.8	1733.7
55°	15093.8	14928.8	14503.4	7829.1	2706.2	1432.7	1125.9	1302.4	1476.1	1548.5	1664.2
57.5°	13577.2	13464.3	13119.9	7308.1	2428.3	1212.7	1021.7	1180.9	1389.3	1502.1	1620.8
60°	11296.5	11119.9	10237.2	6211.2	1791.6	943.5	958.0	1085.4	1366.1	1409.5	1548.5
62.5°	10651.0	10214.0	9012.9	4998.5	1374.8	810.4	859.6	998.5	1244.6	1316.9	1455.8
65°	8451.4	8127.2	6448.5	3609.2	920.4	703.3	784.4	900.1	1073.8	1215.6	1343.0
67.5°	5290.8	4981.1	3441.3	1707.6	642.5	602.0	700.4	822.0	963.8	1091.2	1233.0
70°	2764.1	2425.4	1589.0	616.5	442.8	492.0	584.6	700.4	839.3	943.5	1053.5
72.5°	1030.4	836.5	518.1	266.3	306.8	376.3	474.7	558.6	657.0	784.4	845.1
75°	159.2	136.0	133.1	162.1	208.4	272.1	338.6	422.6	509.4	590.4	631.0
77.5°	75.3	72.4	81.0	107.1	138.9	193.9	246.0	327.1	396.5	448.6	471.8
80°	49.2	46.3	52.1	72.4	104.2	144.7	196.8	251.8	315.5	358.9	353.1
82.5°	28.9	31.8	31.8	49.2	72.4	104.2	141.8	191.0	234.4	272.1	248.9
85°	17.4	14.5	14.5	28.9	49.2	83.9	118.7	81.0	83.9	83.9	95.5
87.5°	5.8	5.8	5.8	2.9	5.8	5.8	8.7	14.5	17.4	20.3	26.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4
2.5°	7643.9	7733.6	7701.7	7588.9	7675.7	7690.2	7632.3	7832.0	7869.6	7808.8	7826.2
5°	6196.7	6219.9	6272.0	6381.9	6460.1	6552.7	6552.7	6558.5	6480.4	6677.2	6619.3
7.5°	4827.7	4842.2	4903.0	5137.4	5204.0	5380.5	5455.8	5403.7	5247.4	5180.8	5235.8
10°	4167.8	4083.9	4063.6	4092.5	4243.1	4318.3	4382.0	4364.6	4338.6	4286.5	4228.6
12.5°	3727.9	3667.1	3617.9	3548.4	3557.1	3629.5	3678.7	3638.1	3649.7	3661.3	3678.7
15°	3250.3	3206.9	3180.8	3076.6	3065.1	3114.3	3131.6	3154.8	3198.2	3201.1	3180.8
17.5°	2743.8	2706.2	2764.1	2821.9	2781.4	2784.3	2816.2	2836.4	2824.8	2772.7	2746.7
20°	2396.5	2437.0	2494.9	2549.9	2593.3	2619.3	2630.9	2599.1	2561.5	2454.4	2451.5
22.5°	2295.2	2347.3	2396.5	2480.4	2520.9	2587.5	2526.7	2454.4	2402.3	2350.2	2289.4
25°	2219.9	2263.3	2361.8	2393.6	2471.7	2526.7	2483.3	2411.0	2321.2	2246.0	2199.7
27.5°	2164.9	2214.1	2277.8	2364.6	2425.4	2457.3	2413.9	2384.9	2292.3	2202.6	2136.0
30°	2130.2	2182.3	2298.1	2370.4	2422.5	2448.6	2373.3	2338.6	2272.0	2196.8	2138.9
32.5°	2107.1	2153.4	2251.8	2344.4	2379.1	2379.1	2390.7	2350.2	2257.6	2130.2	2081.0
35°	2031.8	2095.5	2176.5	2283.6	2347.3	2384.9	2327.0	2280.7	2219.9	2089.7	2000.0
37.5°	1988.4	2031.8	2136.0	2237.3	2292.3	2332.8	2309.7	2228.6	2147.6	2040.5	1968.1
40°	1942.1	2011.5	2104.2	2199.7	2260.5	2301.0	2283.6	2188.1	2089.7	1988.4	1939.2
42.5°	1910.2	1956.6	2052.1	2159.2	2231.5	2309.7	2257.6	2138.9	2069.4	1930.5	1875.5
45°	1884.2	1959.4	2060.7	2104.2	2179.4	2260.5	2167.8	2095.5	2014.4	1913.1	1866.8
47.5°	1852.4	1921.8	1988.4	2104.2	2138.9	2176.5	2159.2	2043.4	1973.9	1863.9	1832.1
50°	1840.8	1866.8	1988.4	2052.1	2101.3	2138.9	2092.6	2005.8	1939.2	1826.3	1756.8
52.5°	1794.5	1843.7	1921.8	2005.8	2066.5	2112.8	2037.6	1982.6	1892.9	1774.2	1730.8
55°	1736.6	1765.5	1904.5	1991.3	2023.1	2055.0	2026.0	1936.3	1843.7	1722.1	1678.7
57.5°	1661.3	1727.9	1840.8	1962.3	2002.9	2020.2	1973.9	1901.6	1785.8	1678.7	1609.2
60°	1583.2	1652.6	1777.1	1875.5	1916.0	1979.7	1910.2	1866.8	1733.7	1615.0	1539.8
62.5°	1505.0	1583.2	1675.8	1800.3	1835.0	1861.0	1843.7	1782.9	1675.8	1542.7	1450.0
65°	1412.4	1470.3	1586.1	1649.8	1672.9	1733.7	1672.9	1649.8	1554.2	1426.9	1348.7
67.5°	1273.5	1322.7	1424.0	1484.8	1502.1	1528.2	1525.3	1499.3	1392.2	1305.3	1235.9
70°	1114.3	1157.7	1221.4	1293.8	1302.4	1334.3	1305.3	1299.5	1230.1	1111.4	1073.8
72.5°	894.3	934.9	1018.8	1050.6	1053.5	1065.1	1050.6	1030.4	1013.0	888.6	850.9
75°	686.0	709.1	749.6	778.6	778.6	793.0	784.4	764.1	717.8	639.6	602.0
77.5°	477.6	500.7	552.8	570.2	567.3	573.1	547.0	526.8	457.3	416.8	384.9
80°	347.3	361.8	387.8	399.4	402.3	411.0	379.2	361.8	321.3	275.0	260.5
82.5°	251.8	260.5	263.4	277.9	277.9	263.4	254.7	237.3	208.4	179.4	167.9
85°	104.2	107.1	110.0	127.3	130.2	156.3	144.7	136.0	118.7	101.3	92.6
87.5°	26.0	28.9	37.6	31.8	37.6	37.6	40.5	46.3	46.3	37.6	37.6
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°	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4
2.5°	7892.8	7915.9	8211.1	8248.8	8393.5	8541.1	8839.2	9053.4	9227.0	9339.9	9371.8
5°	6680.1	6827.7	6963.7	7183.7	7383.4	7667.0	7994.1	8399.3	8908.7	9169.2	9273.4
7.5°	5230.0	5403.7	5600.5	5814.7	6107.0	6616.4	7053.4	7522.3	8173.5	8442.7	8850.8
10°	4269.1	4463.0	4723.5	4888.5	5241.6	5727.8	6237.2	6778.5	7400.7	7788.6	8260.3
12.5°	3774.2	3933.4	4173.6	4520.9	4784.3	5099.8	5478.9	6162.0	7053.4	7421.0	7745.2
15°	3227.2	3403.7	3681.6	4066.5	4382.0	4758.2	5183.7	5927.5	6876.9	7444.2	7719.1
17.5°	2775.6	2903.0	3195.3	3528.2	3889.9	4300.9	4911.6	5916.0	7062.1	7788.6	8237.2
20°	2463.1	2480.4	2639.6	2923.2	3415.3	3950.7	4743.8	5858.1	7655.4	8381.9	8949.2
22.5°	2266.2	2248.9	2251.8	2492.0	2836.4	3606.3	4480.4	6054.9	8329.8	9325.5	9707.5
25°	2167.8	2121.5	2092.6	2144.7	2457.3	3198.2	4280.7	6315.4	9056.3	10104.0	10572.9
27.5°	2115.7	2034.7	1976.8	1985.5	2214.1	2992.7	4156.2	6428.3	9777.0	11189.4	11354.4
30°	2095.5	1994.2	1910.2	1881.3	2031.8	2706.2	3889.9	6622.2	10422.4	11785.6	11927.4
32.5°	2023.1	1898.7	1817.6	1791.6	1852.4	2454.4	3698.9	6761.1	10992.6	12433.9	12384.7
35°	1939.2	1835.0	1733.7	1684.5	1727.9	2292.3	3545.5	6694.5	11664.1	12937.5	12911.5
37.5°	1930.5	1794.5	1710.5	1629.5	1626.6	2092.6	3337.1	6758.2	12092.4	13840.6	13484.6
40°	1855.3	1768.4	1658.4	1591.9	1554.2	1991.3	3134.5	6607.7	12720.5	14205.3	13855.0
42.5°	1858.1	1727.9	1632.4	1554.2	1516.6	1843.7	2995.6	6567.2	12940.4	14798.6	14028.7
45°	1811.8	1684.5	1603.4	1510.8	1490.6	1730.8	2862.5	6379.1	13328.3	14827.5	13811.6
47.5°	1765.5	1652.6	1565.8	1455.8	1409.5	1690.3	2758.3	6222.8	13125.7	14555.5	13510.6
50°	1733.7	1603.4	1522.4	1444.3	1314.0	1620.8	2622.2	6185.1	12842.0	14187.9	12952.0
52.5°	1678.7	1562.9	1479.0	1418.2	1209.8	1557.1	2570.1	6405.1	13189.4	13912.9	12789.9
55°	1626.6	1507.9	1400.8	1282.2	1123.0	1389.3	2425.4	6610.6	13695.9	14546.8	13525.1
57.5°	1571.6	1458.7	1343.0	1201.1	1039.1	1215.6	2274.9	6648.2	12746.5	13444.1	12839.1
60°	1499.3	1354.5	1267.7	1082.5	949.3	1007.2	1803.2	5861.0	9886.9	11227.0	11247.3
62.5°	1418.2	1261.9	1186.7	969.6	856.7	868.3	1470.3	4926.1	8020.1	9293.6	9846.4
65°	1311.1	1160.6	1070.9	897.2	790.1	752.5	1076.7	3609.2	6092.5	7539.7	8167.7
67.5°	1172.2	1030.4	917.5	781.5	706.2	645.4	735.2	2031.8	3597.6	5062.1	5253.2
70°	1024.6	903.0	784.4	671.5	587.5	544.1	538.3	900.1	1719.2	2723.5	3099.8
72.5°	807.5	720.7	625.2	541.2	486.2	422.6	384.9	373.4	581.8	1108.5	1531.1
75°	578.9	506.5	451.5	396.5	356.0	321.3	292.3	266.3	243.1	277.9	382.0
77.5°	364.7	338.6	295.2	280.7	257.6	248.9	237.3	222.9	205.5	193.9	193.9
80°	246.0	228.7	214.2	211.3	202.6	199.7	202.6	188.1	170.8	156.3	162.1
82.5°	165.0	162.1	159.2	156.3	159.2	162.1	167.9	165.0	150.5	141.8	144.7
85°	98.4	104.2	110.0	115.8	127.3	112.9	92.6	78.1	69.5	63.7	60.8
87.5°	37.6	52.1	46.3	43.4	46.3	43.4	40.5	37.6	31.8	28.9	28.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4	8862.4
2.5°	9583.0	9640.9	9690.1	9678.6	9577.3	9441.2	9386.2	9105.5	9047.6	9010.0
5°	9713.3	10049.0	10121.4	10078.0	9814.6	9481.7	9157.6	8746.6	8506.4	8497.7
7.5°	9473.1	9886.9	10017.2	10115.6	9765.4	9186.5	8630.8	8014.3	7863.8	7875.4
10°	8862.4	9522.3	9843.5	9944.8	9542.5	9041.8	8271.9	7646.8	7325.5	7319.7
12.5°	8523.7	9041.8	9131.5	9273.4	9154.7	8648.2	8063.5	7363.1	7050.5	7044.7
15°	8222.7	8564.3	8590.3	8790.0	8853.7	8512.2	8118.5	7371.8	7120.0	7093.9
17.5°	8486.1	8248.8	8150.4	8176.4	8364.5	8489.0	8436.9	7863.8	7606.2	7461.5
20°	8662.7	8133.0	7834.9	7863.8	8086.7	8541.1	8911.6	8575.8	8167.7	8185.1
22.5°	9134.4	8150.4	7684.4	7652.5	8005.7	8813.2	9447.0	9476.0	9082.3	8986.8
25°	9840.6	8350.1	7638.1	7629.4	7968.0	9105.5	10072.2	10541.1	10138.8	9962.2
27.5°	10407.9	8662.7	7782.8	7811.7	8086.7	9342.8	10604.7	11227.0	10920.2	10703.1
30°	10905.7	8986.8	7985.4	7852.3	8405.1	9467.3	10833.4	12008.5	11762.5	11583.0
32.5°	11111.2	9447.0	8306.7	8086.7	8668.4	9617.8	11308.1	12766.8	12555.5	12112.7
35°	11458.6	9704.6	8480.3	8463.0	9128.6	9979.6	11530.9	13267.5	13180.7	12787.0
37.5°	11736.4	9965.1	9096.8	8905.8	9759.6	10587.4	11889.8	13959.2	13759.5	13574.3
40°	11950.6	10431.1	9672.8	9924.6	10535.3	11140.2	12219.8	14002.7	14578.6	14040.3
42.5°	11753.8	10847.9	10619.2	11221.2	11800.1	11771.1	12257.4	14338.4	14769.6	14488.9
45°	11704.6	11554.1	12115.6	12662.6	12795.7	12295.0	11988.2	13967.9	14711.8	14587.3
47.5°	11585.9	12248.7	13227.0	14118.4	13915.8	12645.2	11666.9	13901.4	14746.5	14523.6
50°	11545.4	12399.2	14049.0	14917.3	14795.7	12949.1	11516.4	13473.0	14500.5	14480.2
52.5°	11542.5	12708.9	14390.5	15351.4	15426.7	13429.6	11721.9	13690.1	14691.5	14862.3
55°	11672.7	12610.5	14347.1	15111.2	15082.2	13215.4	11745.1	13834.8	14925.9	15093.8
57.5°	11009.9	11296.5	11840.6	12445.5	12289.2	10946.3	10489.0	12789.9	13698.8	13577.2
60°	9507.8	8610.6	7997.0	7968.0	7664.1	7244.4	8584.5	11415.1	11415.1	11296.5
62.5°	8326.9	5652.6	4856.6	4630.9	4848.0	5331.3	8280.6	11102.6	10787.1	10651.0
65°	7282.1	4315.4	3510.8	3447.1	3823.4	4552.7	7487.6	9458.6	8902.9	8451.4
67.5°	4685.9	3160.6	2610.7	2497.8	2952.2	3342.9	4984.0	5817.6	5467.3	5290.8
70°	3021.7	2057.9	1452.9	1363.2	1539.8	2060.7	3183.7	3392.1	2882.7	2764.1
72.5°	1429.8	888.6	509.4	419.7	471.8	787.3	1259.0	1354.5	1125.9	1030.4
75°	454.4	327.1	208.4	179.4	170.8	202.6	289.4	222.9	162.1	159.2
77.5°	202.6	193.9	165.0	138.9	121.6	101.3	83.9	69.5	72.4	75.3
80°	167.9	153.4	136.0	121.6	101.3	78.1	60.8	46.3	46.3	49.2
82.5°	147.6	133.1	118.7	101.3	86.8	63.7	46.3	31.8	28.9	28.9
85°	63.7	75.3	81.0	86.8	69.5	52.1	31.8	20.3	17.4	17.4
87.5°	26.0	23.2	20.3	17.4	14.5	14.5	11.6	8.7	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)