

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: P530682

Luminaire Tested: **GALN-SA5D-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530682
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-SA5D-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 22927 lumens
Efficiency: N/A
Efficacy: 74.2 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): 309
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



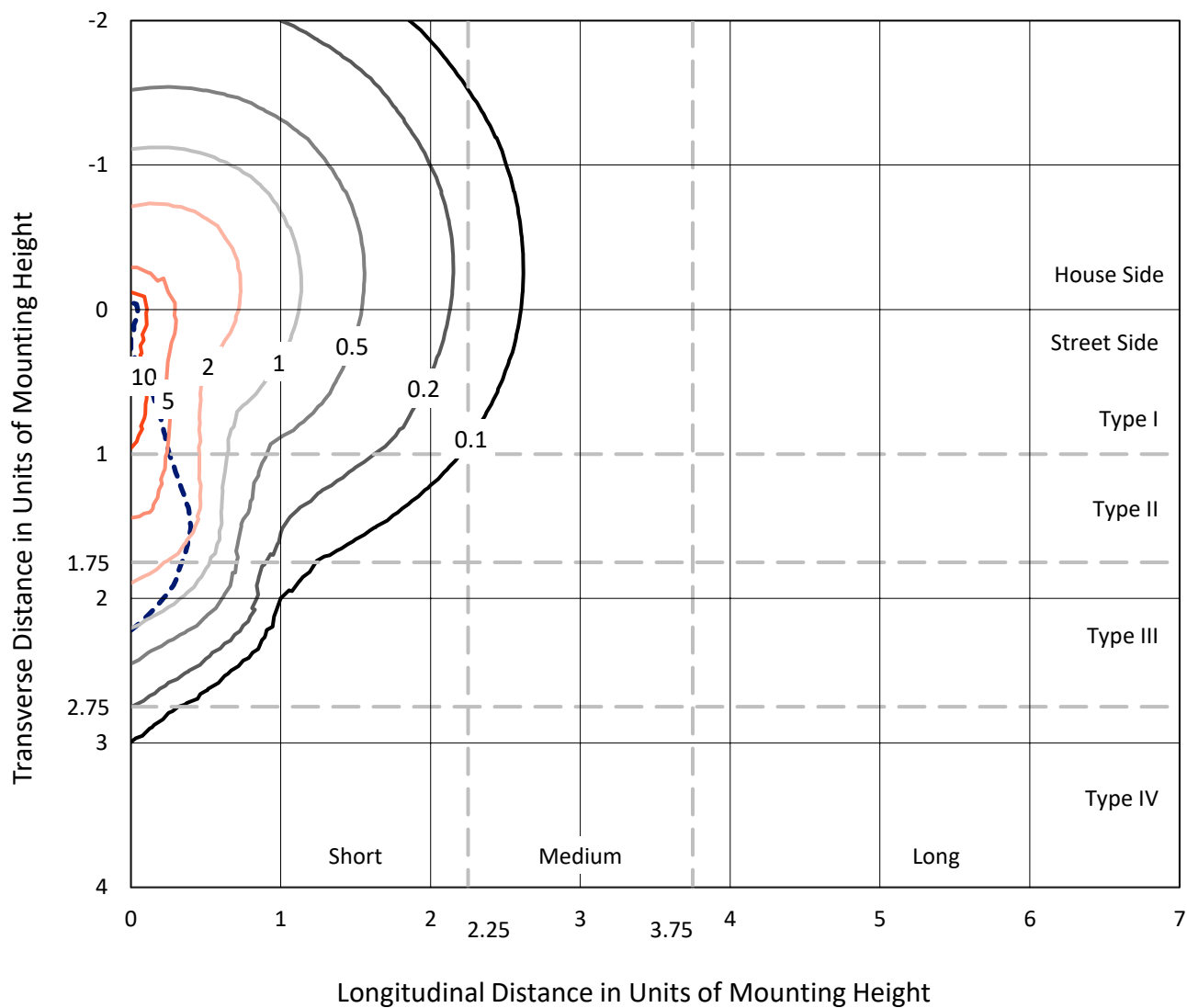
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

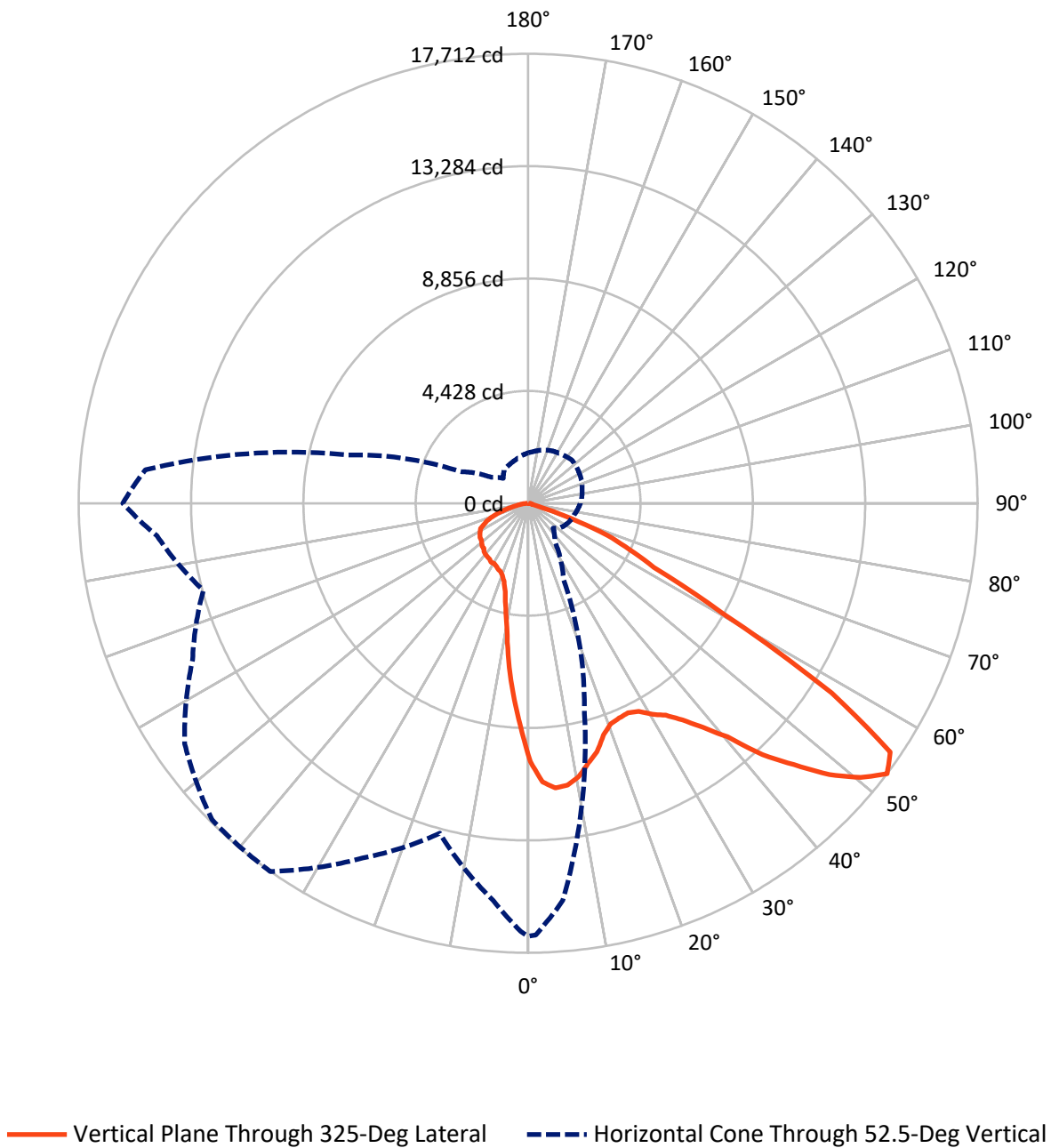


Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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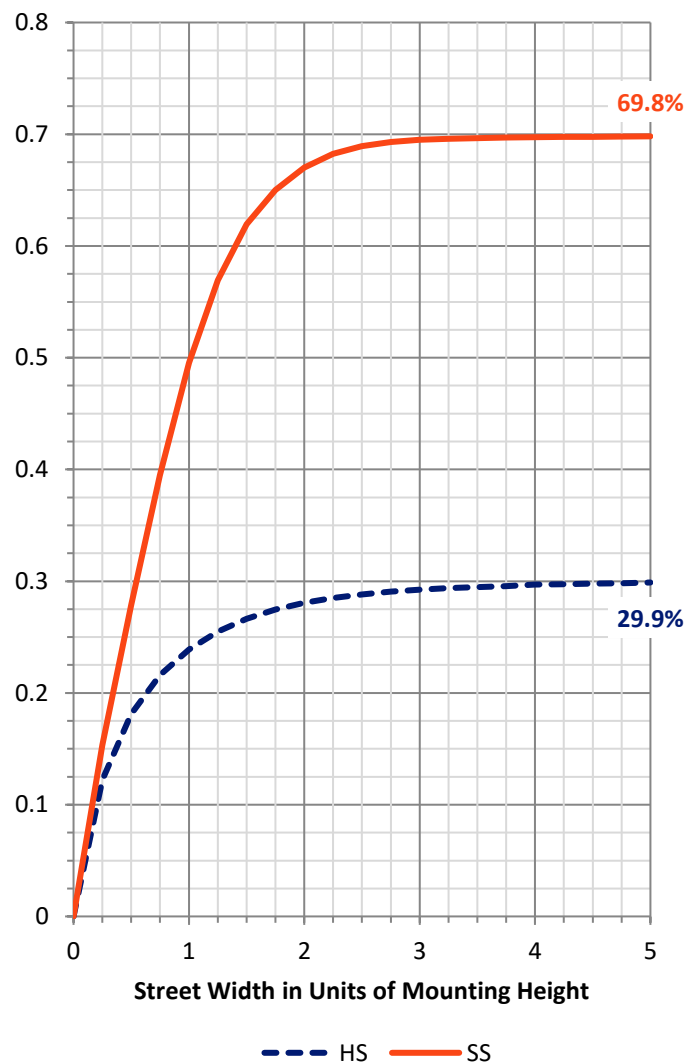
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6911.5	0.0	6911.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	16015.5	0.0	16015.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	22927.0	0.0	22927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.3	3.4
10°-20°	1682.9	7.3
20°-30°	2542.6	11.1
30°-40°	3674.2	16.0
40°-50°	4889.7	21.3
50°-60°	5469.3	23.9
60°-70°	3082.5	13.4
70°-80°	687.1	3.0
80°-90°	122.4	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°	22927.0	100.0
0°-180°	22927.0	100.0

Coefficient of Utilization



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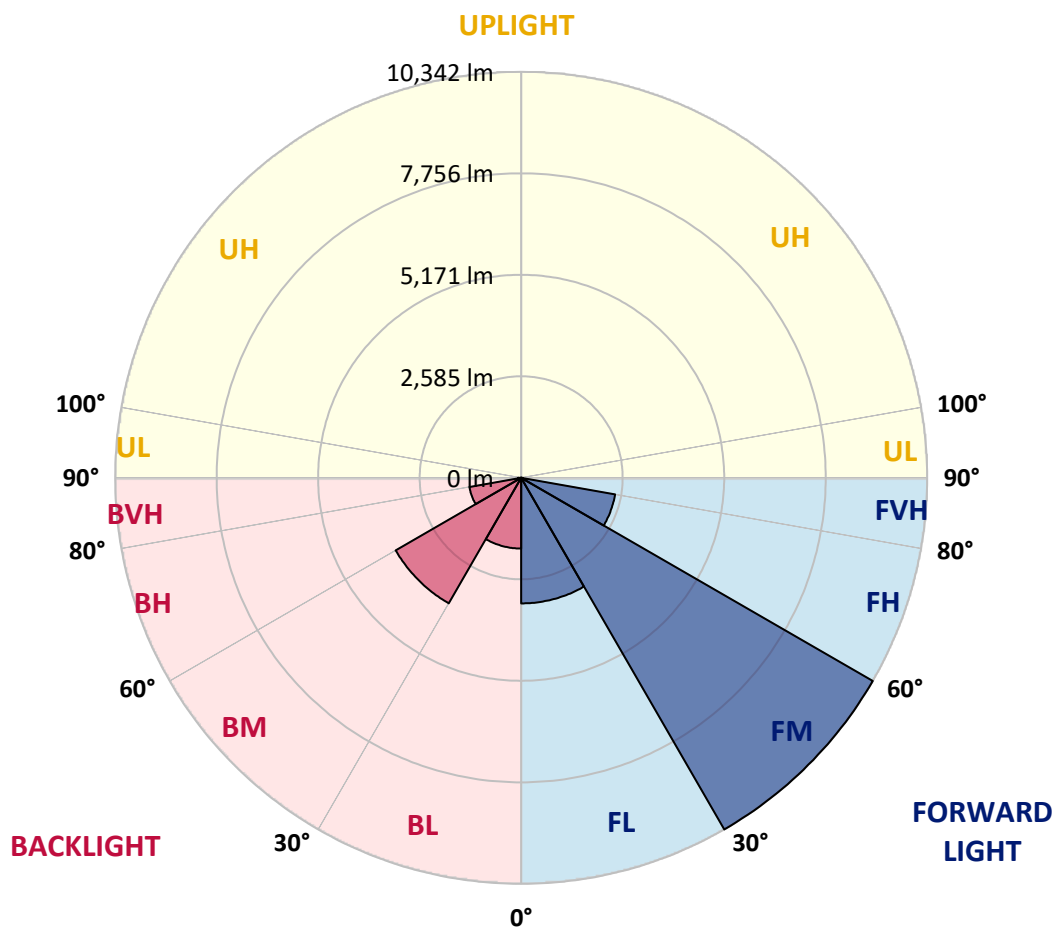
CATALOG NUMBER: GALN-SA5D-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3199.4	14.0			
FM	(30°-60°)	10341.8	45.1			
FH	(60°-80°)	2429.9	10.6			G2/5000
FVH	(80°-90°)	44.3	0.2			G1/100
BL	(0°-30°)	1802.4	7.9	B3/2500		
BM	(30°-60°)	3691.5	16.1	B3/5000		
BH	(60°-80°)	1339.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	78.0	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°	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1
2.5°	10344.6	10510.8	10331.3	10012.3	9786.3	9580.3	9364.3	9321.1	9038.7	8988.8	8782.8
5°	9756.4	9719.9	9500.6	9081.9	8620.0	8201.3	7892.2	7593.1	7390.4	7154.5	7137.9
7.5°	9042.0	8829.3	8703.0	8068.3	7496.8	6838.8	6556.4	6101.1	5958.2	5745.5	5635.9
10°	8404.0	8247.8	7952.0	7317.3	6519.8	6084.5	5782.1	5536.2	5370.0	5150.7	4874.9
12.5°	8088.3	8025.1	7692.8	6709.2	6117.7	5652.5	5439.8	5200.6	4918.1	4565.9	4429.6
15°	8144.8	7932.1	7679.5	6592.9	5775.4	5326.8	4987.9	4688.8	4326.6	3991.0	3794.9
17.5°	8566.8	8404.0	7898.9	6666.0	5645.8	4997.8	4383.1	3941.1	3615.5	3313.1	3176.8
20°	9397.6	9161.6	8593.4	6759.1	5366.7	4539.3	3834.8	3289.8	2940.9	2781.4	2734.9
22.5°	10318.0	10178.5	9271.3	6968.4	5144.1	4113.9	3253.3	2708.3	2578.7	2535.5	2621.9
25°	11437.9	11075.7	10324.7	7310.7	4971.3	3751.7	2761.4	2459.0	2392.6	2435.8	2535.5
27.5°	12288.6	12192.2	11062.4	7633.0	4735.3	3316.4	2485.6	2286.3	2306.2	2349.4	2442.4
30°	13298.8	12810.3	11776.8	7855.7	4522.7	3017.3	2292.9	2239.7	2259.7	2332.8	2379.3
32.5°	13906.9	13724.1	12225.5	8191.3	4276.8	2758.1	2143.4	2093.5	2123.4	2233.1	2342.7
35°	14681.2	14319.0	12780.4	8277.7	4104.0	2655.1	2037.0	2000.5	2070.3	2146.7	2269.6
37.5°	15585.0	15335.8	13548.0	8217.9	4010.9	2548.8	1947.3	1930.7	1980.5	2086.9	2229.8
40°	16120.1	16043.6	13950.1	8254.4	3864.7	2455.7	1844.3	1864.2	1967.2	2050.3	2189.9
42.5°	16635.1	16136.7	14544.9	8241.1	3771.6	2329.4	1854.3	1831.0	1910.7	2007.1	2140.0
45°	16748.1	16253.0	14684.5	8148.1	3658.7	2206.5	1777.8	1787.8	1884.2	2003.8	2090.2
47.5°	16675.0	16309.5	14943.7	8121.5	3552.3	2120.1	1664.8	1784.5	1841.0	1937.3	2060.3
50°	16625.2	16605.2	15163.0	8247.8	3409.4	1983.9	1528.6	1741.3	1797.8	1894.1	2027.1
52.5°	17063.8	17020.6	15711.3	8580.1	3296.5	1837.6	1389.0	1631.6	1767.9	1860.9	1990.5
55°	17329.6	17140.2	16651.7	8988.8	3107.0	1644.9	1292.7	1495.4	1694.7	1777.8	1910.7
57.5°	15588.4	15458.8	15063.3	8390.7	2788.0	1392.4	1173.0	1355.8	1595.1	1724.7	1860.9
60°	12969.8	12767.1	11753.6	7131.2	2057.0	1083.3	1099.9	1246.1	1568.5	1618.3	1777.8
62.5°	12228.8	11727.0	10347.9	5738.9	1578.4	930.5	986.9	1146.4	1428.9	1512.0	1671.5
65°	9703.3	9331.1	7403.7	4143.8	1056.7	807.5	900.5	1033.5	1232.8	1395.7	1541.9
67.5°	6074.5	5718.9	3951.1	1960.6	737.7	691.2	804.2	943.7	1106.6	1252.8	1415.6
70°	3173.5	2784.7	1824.3	707.8	508.4	564.9	671.3	804.2	963.7	1083.3	1209.6
72.5°	1183.0	960.4	594.8	305.7	352.2	432.0	545.0	641.3	754.3	900.5	970.3
75°	182.8	156.2	152.9	186.1	239.3	312.4	388.8	485.2	584.9	677.9	724.4
77.5°	86.4	83.1	93.0	123.0	159.5	222.6	282.5	375.5	455.3	515.1	541.7
80°	56.5	53.2	59.8	83.1	119.6	166.2	226.0	289.1	362.2	412.1	405.4
82.5°	33.2	36.6	36.6	56.5	83.1	119.6	162.8	219.3	269.2	312.4	285.8
85°	19.9	16.6	16.6	33.2	56.5	96.4	136.2	93.0	96.4	96.4	109.7
87.5°	6.6	6.6	6.6	3.3	6.6	6.6	10.0	16.6	19.9	23.3	29.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1
2.5°	8776.1	8879.2	8842.6	8713.0	8812.7	8829.3	8762.9	8992.1	9035.3	8965.6	8985.5
5°	7114.6	7141.2	7201.0	7327.3	7417.0	7523.4	7523.4	7530.0	7440.3	7666.2	7599.8
7.5°	5542.8	5559.4	5629.2	5898.4	5974.8	6177.5	6263.9	6204.1	6024.7	5948.2	6011.4
10°	4785.2	4688.8	4665.5	4698.8	4871.6	4958.0	5031.1	5011.1	4981.2	4921.4	4855.0
12.5°	4280.1	4210.3	4153.8	4074.0	4084.0	4167.1	4223.6	4177.1	4190.4	4203.6	4223.6
15°	3731.8	3681.9	3652.0	3532.4	3519.1	3575.6	3595.5	3622.1	3672.0	3675.3	3652.0
17.5°	3150.2	3107.0	3173.5	3240.0	3193.4	3196.8	3233.3	3256.6	3243.3	3183.5	3153.6
20°	2751.5	2798.0	2864.5	2927.6	2977.4	3007.3	3020.6	2984.1	2940.9	2817.9	2814.6
22.5°	2635.2	2695.0	2751.5	2847.8	2894.4	2970.8	2901.0	2817.9	2758.1	2698.3	2628.5
25°	2548.8	2598.6	2711.6	2748.2	2837.9	2901.0	2851.2	2768.1	2665.1	2578.7	2525.5
27.5°	2485.6	2542.1	2615.2	2714.9	2784.7	2821.3	2771.4	2738.2	2631.8	2528.8	2452.4
30°	2445.8	2505.6	2638.5	2721.6	2781.4	2811.3	2724.9	2685.0	2608.6	2522.2	2455.7
32.5°	2419.2	2472.3	2585.3	2691.7	2731.5	2731.5	2744.8	2698.3	2592.0	2445.8	2389.3
35°	2332.8	2405.9	2498.9	2621.9	2695.0	2738.2	2671.7	2618.6	2548.8	2399.2	2296.2
37.5°	2282.9	2332.8	2452.4	2568.7	2631.8	2678.4	2651.8	2558.7	2465.7	2342.7	2259.7
40°	2229.8	2309.5	2415.8	2525.5	2595.3	2641.8	2621.9	2512.2	2399.2	2282.9	2226.4
42.5°	2193.2	2246.4	2356.0	2479.0	2562.1	2651.8	2592.0	2455.7	2376.0	2216.5	2153.3
45°	2163.3	2249.7	2366.0	2415.8	2502.2	2595.3	2489.0	2405.9	2312.8	2196.5	2143.4
47.5°	2126.7	2206.5	2282.9	2415.8	2455.7	2498.9	2479.0	2346.1	2266.3	2140.0	2103.5
50°	2113.5	2143.4	2282.9	2356.0	2412.5	2455.7	2402.6	2302.9	2226.4	2096.8	2017.1
52.5°	2060.3	2116.8	2206.5	2302.9	2372.6	2425.8	2339.4	2276.3	2173.3	2037.0	1987.2
55°	1993.8	2027.1	2186.6	2286.3	2322.8	2359.4	2326.1	2223.1	2116.8	1977.2	1927.4
57.5°	1907.4	1983.9	2113.5	2253.0	2299.5	2319.5	2266.3	2183.2	2050.3	1927.4	1847.6
60°	1817.7	1897.5	2040.3	2153.3	2199.9	2273.0	2193.2	2143.4	1990.5	1854.3	1767.9
62.5°	1728.0	1817.7	1924.0	2066.9	2106.8	2136.7	2116.8	2047.0	1924.0	1771.2	1664.8
65°	1621.6	1688.1	1821.0	1894.1	1920.7	1990.5	1920.7	1894.1	1784.5	1638.3	1548.5
67.5°	1462.1	1518.6	1634.9	1704.7	1724.7	1754.6	1751.2	1721.3	1598.4	1498.7	1418.9
70°	1279.4	1329.2	1402.3	1485.4	1495.4	1531.9	1498.7	1492.0	1412.3	1276.0	1232.8
72.5°	1026.8	1073.3	1169.7	1206.3	1209.6	1222.9	1206.3	1183.0	1163.1	1020.2	977.0
75°	787.6	814.1	860.7	893.9	893.9	910.5	900.5	877.3	824.1	734.4	691.2
77.5°	548.3	574.9	634.7	654.6	651.3	658.0	628.1	604.8	525.0	478.5	442.0
80°	398.8	415.4	445.3	458.6	461.9	471.9	435.3	415.4	368.9	315.7	299.1
82.5°	289.1	299.1	302.4	319.0	319.0	302.4	292.4	272.5	239.3	206.0	192.7
85°	119.6	123.0	126.3	146.2	149.5	179.4	166.2	156.2	136.2	116.3	106.3
87.5°	29.9	33.2	43.2	36.6	43.2	43.2	46.5	53.2	53.2	43.2	43.2
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°	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1
2.5°	9061.9	9088.5	9427.5	9470.7	9636.8	9806.3	10148.6	10394.5	10593.8	10723.4	10760.0
5°	7669.6	7839.0	7995.2	8247.8	8477.1	8802.7	9178.2	9643.5	10228.3	10527.4	10647.0
7.5°	6004.7	6204.1	6430.1	6676.0	7011.6	7596.5	8098.2	8636.6	9384.3	9693.3	10161.9
10°	4901.5	5124.1	5423.2	5612.6	6018.0	6576.3	7161.1	7782.6	8497.0	8942.3	9484.0
12.5°	4333.2	4516.0	4791.8	5190.6	5493.0	5855.2	6290.5	7074.7	8098.2	8520.3	8892.5
15°	3705.2	3907.9	4226.9	4668.9	5031.1	5463.1	5951.6	6805.6	7895.5	8546.9	8862.5
17.5°	3186.8	3333.0	3668.6	4050.8	4466.2	4938.0	5639.2	6792.3	8108.2	8942.3	9457.4
20°	2827.9	2847.8	3030.6	3356.3	3921.2	4535.9	5446.5	6725.8	8789.4	9623.5	10274.8
22.5°	2601.9	2582.0	2585.3	2861.1	3256.6	4140.5	5144.1	6951.8	9563.7	10706.8	11145.5
25°	2489.0	2435.8	2402.6	2462.4	2821.3	3672.0	4914.8	7250.9	10397.8	11600.7	12139.1
27.5°	2429.1	2336.1	2269.6	2279.6	2542.1	3436.0	4771.9	7380.5	11225.2	12846.9	13036.3
30°	2405.9	2289.6	2193.2	2160.0	2332.8	3107.0	4466.2	7603.1	11966.3	13531.4	13694.2
32.5°	2322.8	2179.9	2086.9	2057.0	2126.7	2817.9	4246.8	7762.6	12620.9	14275.8	14219.3
35°	2226.4	2106.8	1990.5	1934.0	1983.9	2631.8	4070.7	7686.2	13391.8	14854.0	14824.1
37.5°	2216.5	2060.3	1963.9	1870.9	1867.5	2402.6	3831.5	7759.3	13883.7	15890.8	15482.0
40°	2130.1	2030.4	1904.1	1827.7	1784.5	2286.3	3598.9	7586.5	14604.8	16309.5	15907.4
42.5°	2133.4	1983.9	1874.2	1784.5	1741.3	2116.8	3439.3	7540.0	14857.3	16990.7	16106.8
45°	2080.2	1934.0	1841.0	1734.6	1711.4	1987.2	3286.5	7324.0	15302.6	17023.9	15857.5
47.5°	2027.1	1897.5	1797.8	1671.5	1618.3	1940.7	3166.9	7144.5	15070.0	16711.6	15511.9
50°	1990.5	1841.0	1747.9	1658.2	1508.7	1860.9	3010.7	7101.3	14744.3	16289.5	14870.6
52.5°	1927.4	1794.4	1698.1	1628.3	1389.0	1787.8	2950.9	7353.9	15143.1	15973.8	14684.5
55°	1867.5	1731.3	1608.4	1472.1	1289.3	1595.1	2784.7	7589.8	15724.6	16701.6	15528.6
57.5°	1804.4	1674.8	1541.9	1379.1	1193.0	1395.7	2611.9	7633.0	14634.7	15435.5	14741.0
60°	1721.3	1555.2	1455.5	1242.8	1090.0	1156.4	2070.3	6729.2	11351.5	12890.1	12913.3
62.5°	1628.3	1448.8	1362.4	1113.2	983.6	996.9	1688.1	5655.8	9208.1	10670.3	11305.0
65°	1505.3	1332.5	1229.5	1030.1	907.2	864.0	1236.2	4143.8	6995.0	8656.5	9377.6
67.5°	1345.8	1183.0	1053.4	897.2	810.8	741.0	844.1	2332.8	4130.5	5812.0	6031.3
70°	1176.4	1036.8	900.5	770.9	674.6	624.7	618.1	1033.5	1973.9	3127.0	3559.0
72.5°	927.1	827.4	717.8	621.4	558.3	485.2	442.0	428.7	667.9	1272.7	1757.9
75°	664.6	581.5	518.4	455.3	408.7	368.9	335.6	305.7	279.1	319.0	438.6
77.5°	418.7	388.8	338.9	322.3	295.8	285.8	272.5	255.9	235.9	222.6	222.6
80°	282.5	262.5	245.9	242.6	232.6	229.3	232.6	216.0	196.1	179.4	186.1
82.5°	189.4	186.1	182.8	179.4	182.8	186.1	192.7	189.4	172.8	162.8	166.2
85°	113.0	119.6	126.3	132.9	146.2	129.6	106.3	89.7	79.8	73.1	69.8
87.5°	43.2	59.8	53.2	49.8	53.2	49.8	46.5	43.2	36.6	33.2	33.2
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°	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1	10175.1
2.5°	11002.6	11069.0	11125.5	11112.2	10995.9	10839.8	10776.6	10454.3	10387.8	10344.6
5°	11152.1	11537.6	11620.7	11570.8	11268.4	10886.3	10514.1	10042.2	9766.4	9756.4
7.5°	10876.3	11351.5	11501.0	11614.0	11211.9	10547.3	9909.3	9201.5	9028.7	9042.0
10°	10175.1	10932.8	11301.7	11418.0	10956.1	10381.2	9497.2	8779.5	8410.6	8404.0
12.5°	9786.3	10381.2	10484.2	10647.0	10510.8	9929.2	9258.0	8453.8	8094.9	8088.3
15°	9440.8	9832.9	9862.8	10092.1	10165.2	9773.1	9321.1	8463.8	8174.7	8144.8
17.5°	9743.1	9470.7	9357.7	9387.6	9603.6	9746.5	9686.7	9028.7	8732.9	8566.8
20°	9945.9	9337.7	8995.5	9028.7	9284.6	9806.3	10231.6	9846.2	9377.6	9397.6
22.5°	10487.5	9357.7	8822.7	8786.1	9191.5	10118.7	10846.4	10879.6	10427.7	10318.0
25°	11298.3	9587.0	8769.5	8759.5	9148.3	10454.3	11564.2	12102.5	11640.6	11437.9
27.5°	11949.6	9945.9	8935.7	8968.9	9284.6	10726.8	12175.6	12890.1	12537.8	12288.6
30°	12521.2	10318.0	9168.3	9015.4	9650.1	10869.7	12438.1	13787.3	13504.8	13298.8
32.5°	12757.1	10846.4	9537.1	9284.6	9952.5	11042.5	12983.1	14657.9	14415.3	13906.9
35°	13155.9	11142.1	9736.5	9716.6	10480.9	11457.8	13239.0	15232.8	15133.1	14681.2
37.5°	13474.9	11441.2	10444.3	10225.0	11205.3	12155.7	13651.0	16027.0	15797.7	15585.0
40°	13720.8	11976.2	11105.6	11394.7	12095.9	12790.4	14029.9	16076.9	16738.1	16120.1
42.5°	13494.9	12454.7	12192.2	12883.4	13548.0	13514.8	14073.1	16462.3	16957.5	16635.1
45°	13438.4	13265.6	13910.2	14538.3	14691.2	14116.3	13764.0	16037.0	16891.0	16748.1
47.5°	13302.1	14063.1	15186.3	16209.8	15977.2	14518.4	13395.2	15960.6	16930.9	16675.0
50°	13255.6	14235.9	16130.0	17126.9	16987.4	14867.3	13222.4	15468.7	16648.4	16625.2
52.5°	13252.3	14591.5	16522.1	17625.4	17711.8	15418.9	13458.3	15718.0	16867.7	17063.8
55°	13401.8	14478.5	16472.3	17349.6	17316.4	15173.0	13484.9	15884.1	17136.9	17329.6
57.5°	12640.8	12969.8	13594.6	14289.1	14109.6	12567.7	12042.7	14684.5	15727.9	15588.4
60°	10916.2	9886.0	9181.6	9148.3	8799.4	8317.6	9856.1	13106.1	13106.1	12969.8
62.5°	9560.4	6489.9	5576.1	5316.9	5566.1	6121.0	9507.2	12747.2	12385.0	12228.8
65°	8360.8	4954.7	4030.8	3957.7	4389.7	5227.1	8596.7	10859.7	10221.7	9703.3
67.5°	5380.0	3628.8	2997.4	2867.8	3389.5	3838.1	5722.3	6679.3	6277.2	6074.5
70°	3469.3	2362.7	1668.2	1565.2	1767.9	2366.0	3655.3	3894.6	3309.7	3173.5
72.5°	1641.6	1020.2	584.9	481.8	541.7	903.9	1445.5	1555.2	1292.7	1183.0
75°	521.7	375.5	239.3	206.0	196.1	232.6	332.3	255.9	186.1	182.8
77.5°	232.6	222.6	189.4	159.5	139.6	116.3	96.4	79.8	83.1	86.4
80°	192.7	176.1	156.2	139.6	116.3	89.7	69.8	53.2	53.2	56.5
82.5°	169.5	152.9	136.2	116.3	99.7	73.1	53.2	36.6	33.2	33.2
85°	73.1	86.4	93.0	99.7	79.8	59.8	36.6	23.3	19.9	19.9
87.5°	29.9	26.6	23.3	19.9	16.6	16.6	13.3	10.0	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)