

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: P532788

Luminaire Tested: **GALN-SA8A-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532788
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-SA8A-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 21854 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 244
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



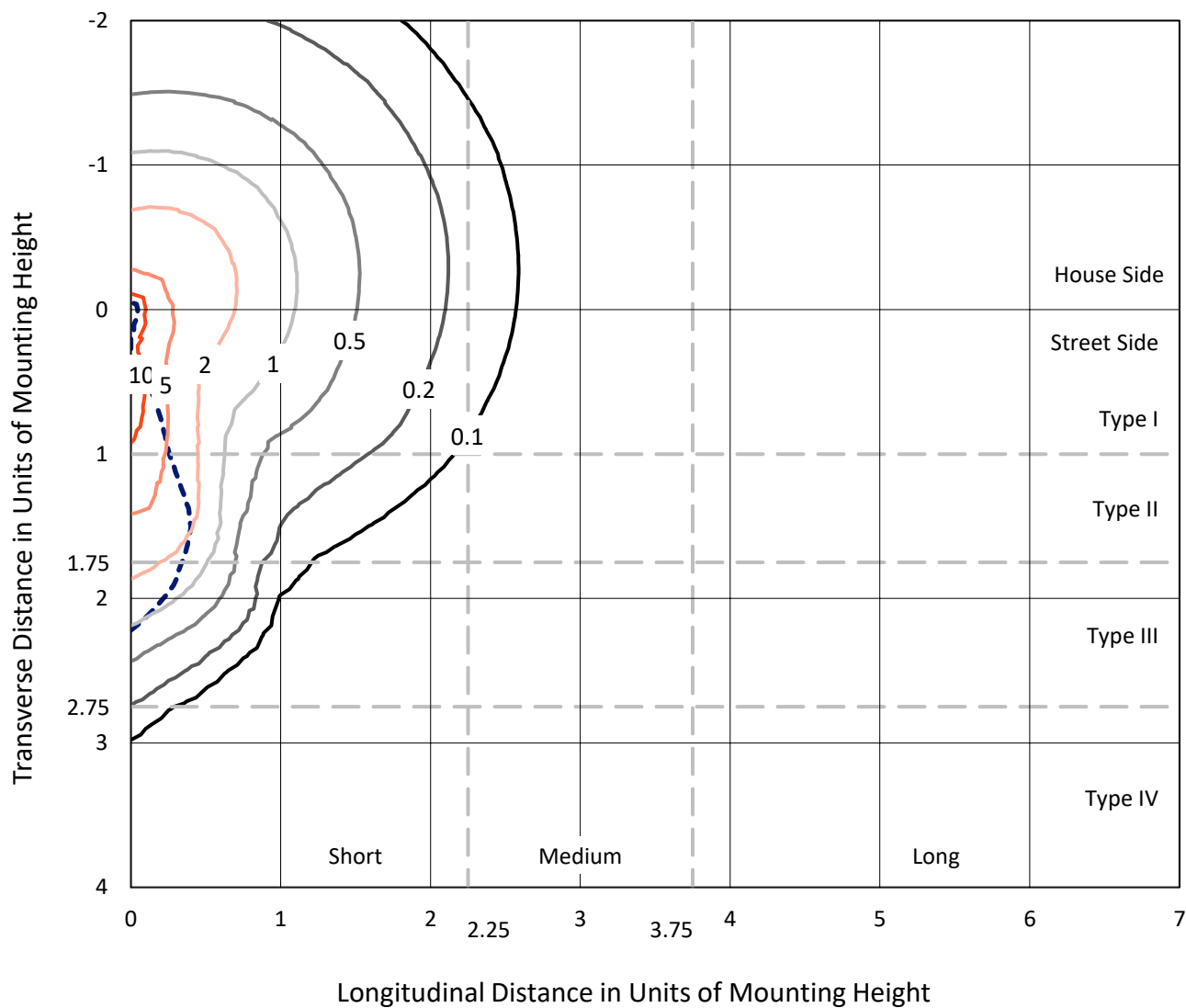
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



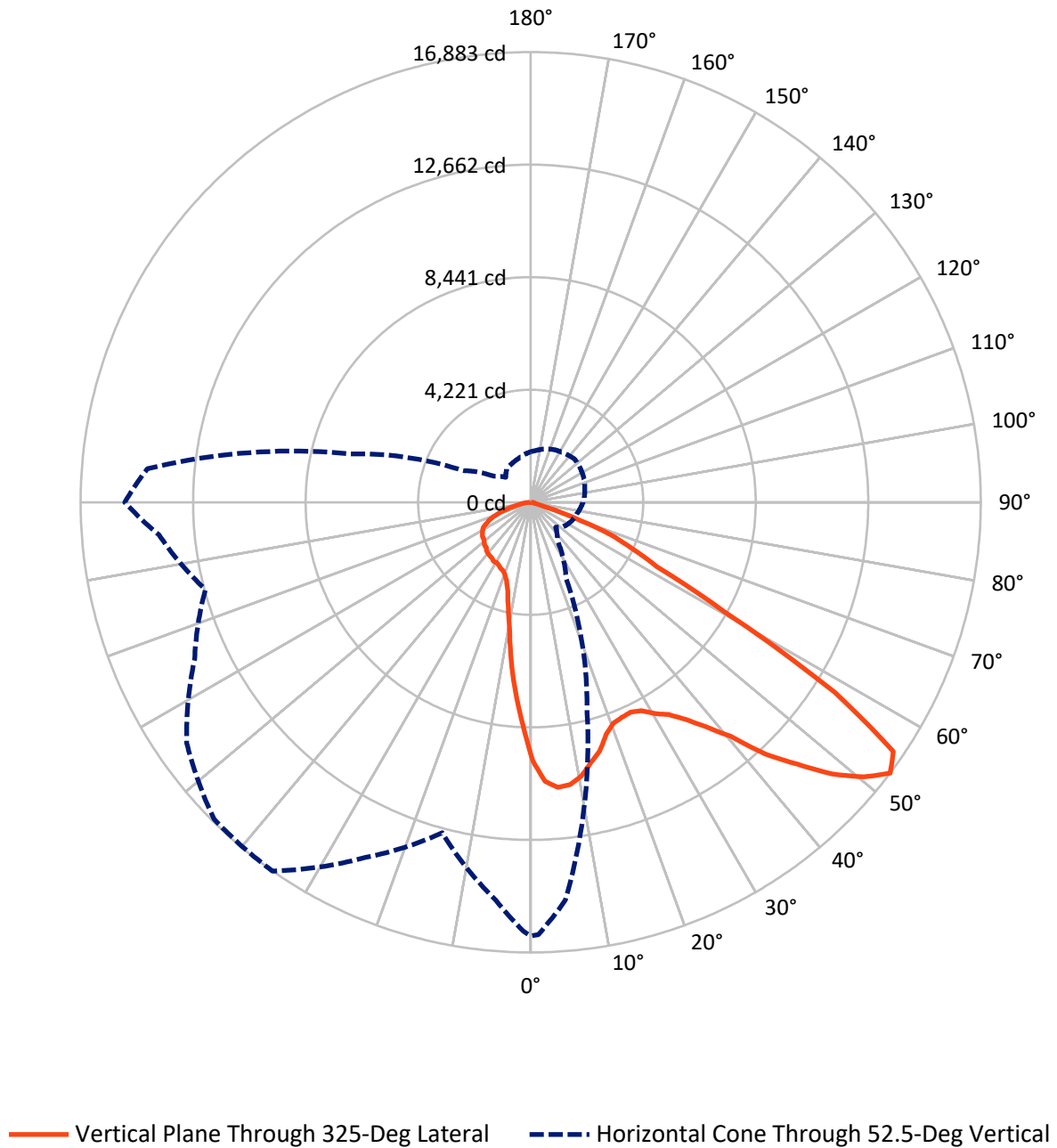
Based on 25 foot mounting height. Maximum calculated value = 15.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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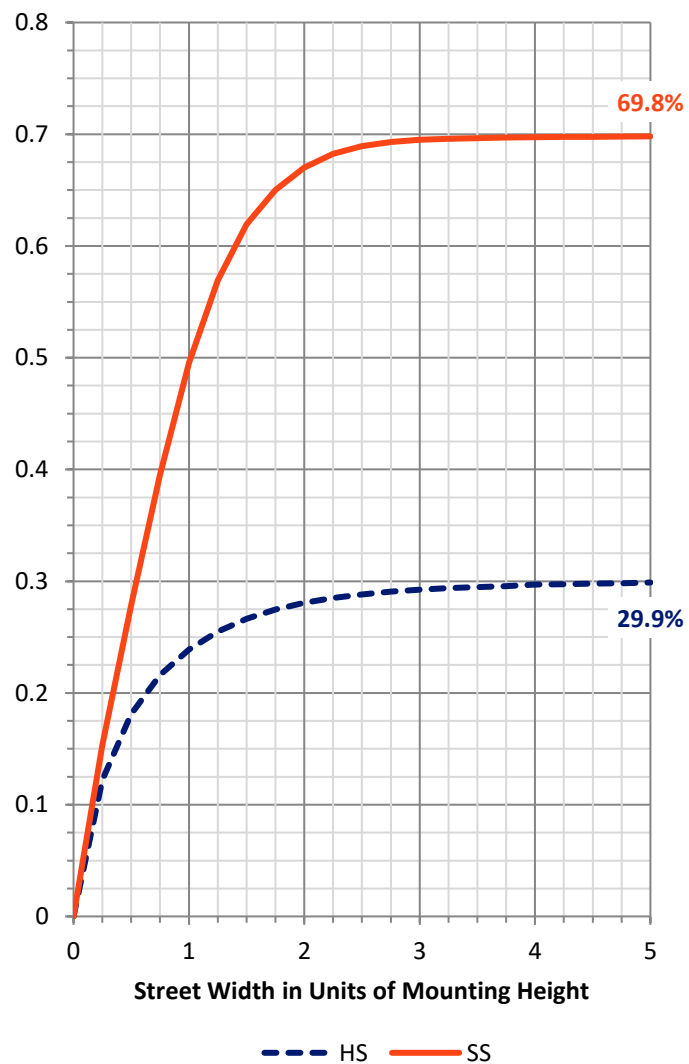
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6588.1	0.0	6588.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	15265.9	0.0	15265.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	21854.0	0.0	21854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.9	3.4
10°-20°	1604.1	7.3
20°-30°	2423.6	11.1
30°-40°	3502.3	16.0
40°-50°	4660.9	21.3
50°-60°	5213.3	23.9
60°-70°	2938.2	13.4
70°-80°	655.0	3.0
80°-90°	116.6	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°	21854.0	100.0
0°-180°	21854.0	100.0

Coefficient of Utilization



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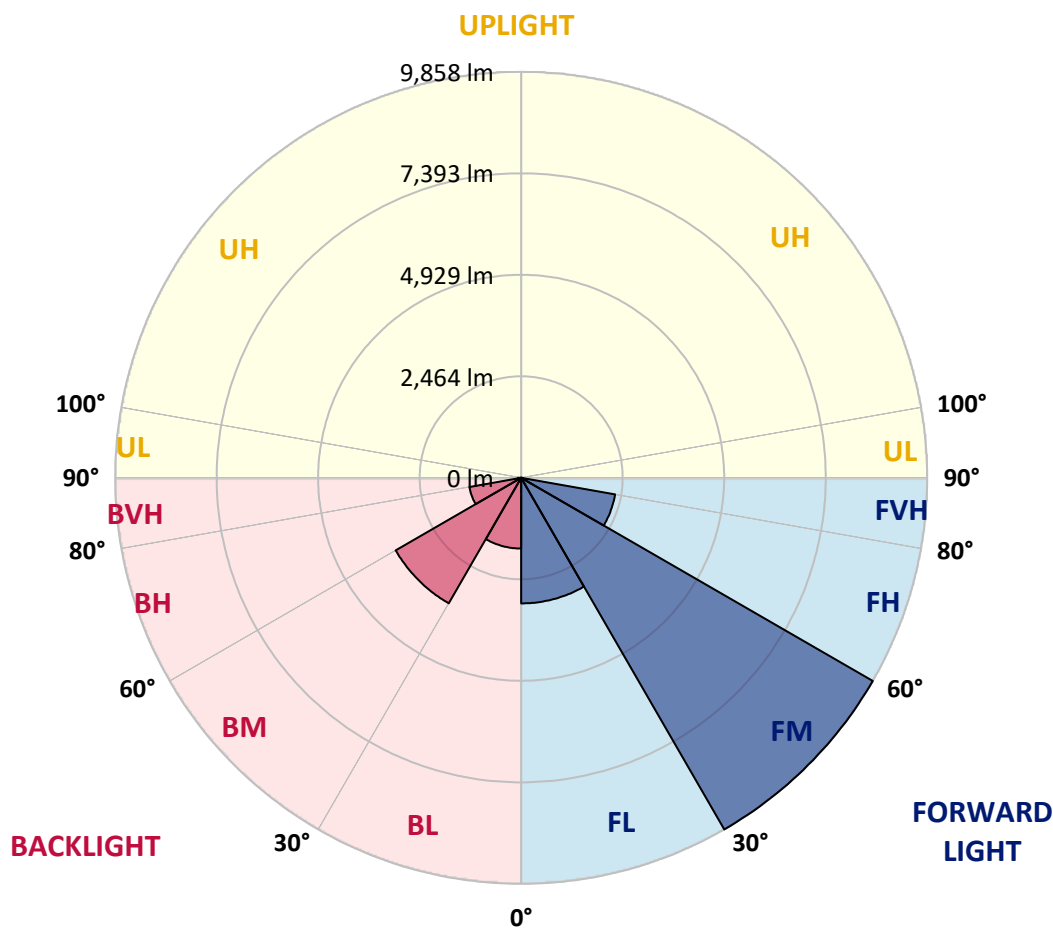
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3049.7	14.0			
FM	(30°-60°)	9857.8	45.1			
FH	(60°-80°)	2316.2	10.6			G2/5000
FVH	(80°-90°)	42.2	0.2			G1/100
BL	(0°-30°)	1718.0	7.9	B3/2500		
BM	(30°-60°)	3518.7	16.1	B3/5000		
BH	(60°-80°)	1277.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	74.4	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°	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9
2.5°	9860.5	10018.9	9847.8	9543.7	9328.3	9132.0	8926.1	8884.9	8615.6	8568.1	8371.7
5°	9299.8	9265.0	9055.9	8656.8	8216.5	7817.4	7522.9	7237.8	7044.6	6819.7	6803.8
7.5°	8618.8	8416.1	8295.7	7690.7	7145.9	6518.8	6249.5	5815.6	5679.4	5476.6	5372.1
10°	8010.7	7861.8	7579.9	6974.9	6214.7	5799.7	5511.5	5277.1	5118.7	4909.7	4646.7
12.5°	7709.7	7649.6	7332.8	6395.2	5831.4	5387.9	5185.2	4957.2	4687.9	4352.2	4222.3
15°	7763.6	7560.9	7320.1	6284.4	5505.1	5077.5	4754.4	4469.4	4124.1	3804.2	3617.3
17.5°	8165.9	8010.7	7529.2	6354.0	5381.6	4763.9	4178.0	3756.7	3446.3	3158.0	3028.1
20°	8957.7	8732.8	8191.2	6442.7	5115.5	4326.8	3655.3	3135.8	2803.3	2651.2	2606.9
22.5°	9835.1	9702.1	8837.4	6642.3	4903.3	3921.4	3101.0	2581.5	2458.0	2416.8	2499.2
25°	10902.6	10557.3	9841.5	6968.5	4738.6	3576.1	2632.2	2344.0	2280.6	2321.8	2416.8
27.5°	11713.5	11621.6	10544.7	7275.8	4513.7	3161.2	2369.3	2179.3	2198.3	2239.4	2328.1
30°	12676.4	12210.8	11225.7	7488.0	4311.0	2876.1	2185.6	2134.9	2153.9	2223.6	2267.9
32.5°	13256.1	13081.8	11653.3	7807.9	4076.6	2629.0	2043.0	1995.5	2024.0	2128.6	2233.1
35°	13994.1	13648.8	12182.3	7890.3	3911.9	2530.8	1941.7	1906.8	1973.4	2046.2	2163.4
37.5°	14855.7	14618.1	12914.0	7833.3	3823.2	2429.5	1856.2	1840.3	1887.8	1989.2	2125.4
40°	15365.6	15292.8	13297.2	7868.1	3683.8	2340.8	1758.0	1777.0	1875.2	1954.4	2087.4
42.5°	15856.6	15381.5	13864.2	7855.4	3595.1	2220.4	1767.5	1745.3	1821.3	1913.2	2039.9
45°	15964.3	15492.3	13997.3	7766.8	3487.4	2103.2	1694.6	1704.1	1796.0	1910.0	1992.4
47.5°	15894.6	15546.2	14244.3	7741.4	3386.1	2020.9	1586.9	1701.0	1754.8	1846.7	1963.9
50°	15847.1	15828.1	14453.4	7861.8	3249.9	1891.0	1457.1	1659.8	1713.6	1805.5	1932.2
52.5°	16265.2	16224.0	14976.0	8178.5	3142.2	1751.6	1324.0	1555.3	1685.1	1773.8	1897.3
55°	16518.6	16338.1	15872.4	8568.1	2961.6	1567.9	1232.2	1425.4	1615.4	1694.6	1821.3
57.5°	14858.8	14735.3	14358.4	7998.0	2657.5	1327.2	1118.1	1292.3	1520.4	1643.9	1773.8
60°	12362.8	12169.6	11203.5	6797.5	1960.7	1032.6	1048.4	1187.8	1495.1	1542.6	1694.6
62.5°	11656.5	11178.2	9863.7	5470.3	1504.6	886.9	940.8	1092.8	1362.0	1441.2	1593.3
65°	9249.2	8894.4	7057.2	3949.9	1007.3	769.7	858.4	985.1	1175.1	1330.4	1469.7
67.5°	5790.2	5451.3	3766.2	1868.8	703.2	658.8	766.5	899.6	1054.8	1194.2	1349.4
70°	3025.0	2654.4	1739.0	674.7	484.6	538.5	639.8	766.5	918.6	1032.6	1153.0
72.5°	1127.6	915.4	567.0	291.4	335.8	411.8	519.5	611.3	719.0	858.4	924.9
75°	174.2	148.9	145.7	177.4	228.1	297.7	370.6	462.5	557.5	646.2	690.5
77.5°	82.4	79.2	88.7	117.2	152.0	212.2	269.2	357.9	433.9	491.0	516.3
80°	53.8	50.7	57.0	79.2	114.0	158.4	215.4	275.6	345.3	392.8	386.4
82.5°	31.7	34.8	34.8	53.8	79.2	114.0	155.2	209.1	256.6	297.7	272.4
85°	19.0	15.8	15.8	31.7	53.8	91.9	129.9	88.7	91.9	91.9	104.5
87.5°	6.3	6.3	6.3	3.2	6.3	6.3	9.5	15.8	19.0	22.2	28.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9
2.5°	8365.4	8463.6	8428.8	8305.2	8400.3	8416.1	8352.7	8571.3	8612.5	8546.0	8565.0
5°	6781.7	6807.0	6864.0	6984.4	7069.9	7171.3	7171.3	7177.6	7092.1	7307.5	7244.1
7.5°	5283.4	5299.3	5365.8	5622.3	5695.2	5888.4	5970.8	5913.8	5742.7	5669.9	5730.0
10°	4561.2	4469.4	4447.2	4478.9	4643.6	4725.9	4795.6	4776.6	4748.1	4691.1	4627.7
12.5°	4079.8	4013.2	3959.4	3883.4	3892.9	3972.1	4025.9	3981.6	3994.2	4006.9	4025.9
15°	3557.1	3509.6	3481.1	3367.1	3354.4	3408.2	3427.3	3452.6	3500.1	3503.3	3481.1
17.5°	3002.8	2961.6	3025.0	3088.3	3044.0	3047.2	3082.0	3104.2	3091.5	3034.5	3006.0
20°	2622.7	2667.0	2730.4	2790.6	2838.1	2866.6	2879.3	2844.4	2803.3	2686.1	2682.9
22.5°	2511.8	2568.9	2622.7	2714.6	2758.9	2831.8	2765.2	2686.1	2629.0	2572.0	2505.5
25°	2429.5	2477.0	2584.7	2619.5	2705.1	2765.2	2717.7	2638.5	2540.3	2458.0	2407.3
27.5°	2369.3	2423.2	2492.8	2587.9	2654.4	2689.2	2641.7	2610.0	2508.7	2410.5	2337.6
30°	2331.3	2388.3	2515.0	2594.2	2651.2	2679.7	2597.4	2559.4	2486.5	2404.1	2340.8
32.5°	2306.0	2356.6	2464.3	2565.7	2603.7	2603.7	2616.4	2572.0	2470.7	2331.3	2277.4
35°	2223.6	2293.3	2382.0	2499.2	2568.9	2610.0	2546.7	2496.0	2429.5	2286.9	2188.8
37.5°	2176.1	2223.6	2337.6	2448.5	2508.7	2553.0	2527.7	2439.0	2350.3	2233.1	2153.9
40°	2125.4	2201.4	2302.8	2407.3	2473.8	2518.2	2499.2	2394.6	2286.9	2176.1	2122.2
42.5°	2090.6	2141.2	2245.8	2363.0	2442.2	2527.7	2470.7	2340.8	2264.8	2112.7	2052.6
45°	2062.1	2144.4	2255.3	2302.8	2385.1	2473.8	2372.5	2293.3	2204.6	2093.7	2043.0
47.5°	2027.2	2103.2	2176.1	2302.8	2340.8	2382.0	2363.0	2236.3	2160.2	2039.9	2005.0
50°	2014.5	2043.0	2176.1	2245.8	2299.6	2340.8	2290.1	2195.1	2122.2	1998.7	1922.7
52.5°	1963.9	2017.7	2103.2	2195.1	2261.6	2312.3	2229.9	2169.7	2071.6	1941.7	1894.2
55°	1900.5	1932.2	2084.2	2179.3	2214.1	2248.9	2217.3	2119.1	2017.7	1884.7	1837.2
57.5°	1818.2	1891.0	2014.5	2147.6	2191.9	2210.9	2160.2	2081.1	1954.4	1837.2	1761.1
60°	1732.6	1808.7	1944.9	2052.6	2096.9	2166.6	2090.6	2043.0	1897.3	1767.5	1685.1
62.5°	1647.1	1732.6	1834.0	1970.2	2008.2	2036.7	2017.7	1951.2	1834.0	1688.3	1586.9
65°	1545.7	1609.1	1735.8	1805.5	1830.8	1897.3	1830.8	1805.5	1701.0	1561.6	1476.1
67.5°	1393.7	1447.6	1558.4	1624.9	1643.9	1672.4	1669.3	1640.8	1523.6	1428.6	1352.5
70°	1219.5	1267.0	1336.7	1415.9	1425.4	1460.2	1428.6	1422.2	1346.2	1216.3	1175.1
72.5°	978.8	1023.1	1115.0	1149.8	1153.0	1165.6	1149.8	1127.6	1108.6	972.4	931.3
75°	750.7	776.0	820.4	852.1	852.1	867.9	858.4	836.2	785.5	700.0	658.8
77.5°	522.6	548.0	605.0	624.0	620.8	627.2	598.7	576.5	500.5	456.1	421.3
80°	380.1	395.9	424.4	437.1	440.3	449.8	414.9	395.9	351.6	300.9	285.1
82.5°	275.6	285.1	288.2	304.1	304.1	288.2	278.7	259.7	228.1	196.4	183.7
85°	114.0	117.2	120.4	139.4	142.5	171.0	158.4	148.9	129.9	110.9	101.4
87.5°	28.5	31.7	41.2	34.8	41.2	41.2	44.3	50.7	50.7	41.2	41.2
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°	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9
2.5°	8637.8	8663.2	8986.2	9027.4	9185.8	9347.3	9673.6	9908.0	10098.0	10221.6	10256.4
5°	7310.6	7472.2	7621.0	7861.8	8080.3	8390.8	8748.7	9192.1	9749.6	10034.7	10148.7
7.5°	5723.7	5913.8	6129.1	6363.5	6683.5	7240.9	7719.2	8232.4	8945.1	9239.6	9686.3
10°	4672.1	4884.3	5169.4	5349.9	5736.4	6268.5	6826.0	7418.3	8099.3	8523.8	9040.1
12.5°	4130.4	4304.7	4567.6	4947.7	5235.9	5581.2	5996.1	6743.6	7719.2	8121.5	8476.3
15°	3531.8	3725.0	4029.1	4450.4	4795.6	5207.4	5673.0	6487.1	7526.0	8146.9	8447.8
17.5°	3037.6	3177.0	3496.9	3861.2	4257.1	4706.9	5375.3	6474.4	7728.7	8523.8	9014.8
20°	2695.6	2714.6	2888.8	3199.2	3737.7	4323.7	5191.6	6411.1	8378.1	9173.1	9794.0
22.5°	2480.2	2461.2	2464.3	2727.2	3104.2	3946.7	4903.3	6626.4	9116.1	10205.7	10623.9
25°	2372.5	2321.8	2290.1	2347.1	2689.2	3500.1	4684.8	6911.5	9911.2	11057.8	11570.9
27.5°	2315.5	2226.8	2163.4	2172.9	2423.2	3275.2	4548.6	7035.1	10699.9	12245.6	12426.2
30°	2293.3	2182.4	2090.6	2058.9	2223.6	2961.6	4257.1	7247.3	11406.2	12898.1	13053.3
32.5°	2214.1	2077.9	1989.2	1960.7	2027.2	2686.1	4048.1	7399.3	12030.2	13607.7	13553.8
35°	2122.2	2008.2	1897.3	1843.5	1891.0	2508.7	3880.2	7326.5	12765.1	14158.8	14130.3
37.5°	2112.7	1963.9	1872.0	1783.3	1780.1	2290.1	3652.1	7396.2	13233.9	15147.1	14757.5
40°	2030.4	1935.4	1815.0	1742.1	1701.0	2179.3	3430.4	7231.4	13921.2	15546.2	15162.9
42.5°	2033.5	1891.0	1786.5	1701.0	1659.8	2017.7	3278.4	7187.1	14162.0	16195.5	15353.0
45°	1982.9	1843.5	1754.8	1653.4	1631.3	1894.2	3132.7	6981.2	14586.4	16227.2	15115.4
47.5°	1932.2	1808.7	1713.6	1593.3	1542.6	1849.8	3018.6	6810.2	14364.7	15929.4	14786.0
50°	1897.3	1754.8	1666.1	1580.6	1438.1	1773.8	2869.8	6769.0	14054.3	15527.2	14174.6
52.5°	1837.2	1710.5	1618.6	1552.1	1324.0	1704.1	2812.8	7009.7	14434.4	15226.3	13997.3
55°	1780.1	1650.3	1533.1	1403.2	1229.0	1520.4	2654.4	7234.6	14988.7	15919.9	14801.8
57.5°	1720.0	1596.4	1469.7	1314.5	1137.1	1330.4	2489.7	7275.8	13949.7	14713.1	14051.1
60°	1640.8	1482.4	1387.4	1184.7	1038.9	1102.3	1973.4	6414.2	10820.2	12286.8	12309.0
62.5°	1552.1	1381.0	1298.7	1061.1	937.6	950.3	1609.1	5391.1	8777.2	10170.9	10775.9
65°	1434.9	1270.2	1172.0	981.9	864.7	823.6	1178.3	3949.9	6667.6	8251.4	8938.7
67.5°	1282.8	1127.6	1004.1	855.2	772.9	706.4	804.5	2223.6	3937.2	5540.0	5749.0
70°	1121.3	988.3	858.4	734.9	643.0	595.5	589.2	985.1	1881.5	2980.6	3392.4
72.5°	883.7	788.7	684.2	592.3	532.1	462.5	421.3	408.6	636.7	1213.2	1675.6
75°	633.5	554.3	494.1	433.9	389.6	351.6	319.9	291.4	266.1	304.1	418.1
77.5°	399.1	370.6	323.1	307.2	281.9	272.4	259.7	243.9	224.9	212.2	212.2
80°	269.2	250.2	234.4	231.2	221.7	218.6	221.7	205.9	186.9	171.0	177.4
82.5°	180.5	177.4	174.2	171.0	174.2	177.4	183.7	180.5	164.7	155.2	158.4
85°	107.7	114.0	120.4	126.7	139.4	123.5	101.4	85.5	76.0	69.7	66.5
87.5°	41.2	57.0	50.7	47.5	50.7	47.5	44.3	41.2	34.8	31.7	31.7
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°	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9	9698.9
2.5°	10487.7	10551.0	10604.8	10592.2	10481.3	10332.4	10272.3	9965.0	9901.7	9860.5
5°	10630.2	10997.6	11076.8	11029.3	10741.1	10376.8	10022.0	9572.2	9309.3	9299.8
7.5°	10367.3	10820.2	10962.8	11070.5	10687.2	10053.7	9445.5	8770.9	8606.1	8618.8
10°	9698.9	10421.1	10772.7	10883.6	10443.3	9895.3	9052.8	8368.6	8017.0	8010.7
12.5°	9328.3	9895.3	9993.5	10148.7	10018.9	9464.5	8824.7	8058.2	7716.1	7709.7
15°	8998.9	9372.7	9401.2	9619.8	9689.4	9315.7	8884.9	8067.7	7792.1	7763.6
17.5°	9287.2	9027.4	8919.7	8948.2	9154.1	9290.3	9233.3	8606.1	8324.2	8165.9
20°	9480.4	8900.7	8574.5	8606.1	8850.0	9347.3	9752.8	9385.4	8938.7	8957.7
22.5°	9996.7	8919.7	8409.8	8374.9	8761.4	9645.1	10338.8	10370.5	9939.7	9835.1
25°	10769.6	9138.3	8359.1	8349.6	8720.2	9965.0	11023.0	11536.1	11095.8	10902.6
27.5°	11390.4	9480.4	8517.5	8549.1	8850.0	10224.7	11605.8	12286.8	11951.0	11713.5
30°	11935.2	9835.1	8739.2	8593.5	9198.5	10361.0	11856.0	13142.0	12872.8	12676.4
32.5°	12160.1	10338.8	9090.8	8850.0	9486.7	10525.7	12375.5	13971.9	13740.7	13256.1
35°	12540.2	10620.7	9280.8	9261.8	9990.4	10921.6	12619.4	14519.9	14424.9	13994.1
37.5°	12844.3	10905.8	9955.5	9746.5	10680.9	11586.8	13012.2	15276.9	15058.4	14855.7
40°	13078.7	11415.7	10585.8	10861.4	11529.8	12191.8	13373.3	15324.5	15954.8	15365.6
42.5°	12863.3	11871.9	11621.6	12280.5	12914.0	12882.3	13414.4	15691.9	16163.8	15856.6
45°	12809.4	12644.7	13259.2	13857.9	14003.6	13455.6	13119.9	15286.4	16100.5	15964.3
47.5°	12679.6	13404.9	14475.6	15451.2	15229.4	13838.9	12768.3	15213.6	16138.5	15894.6
50°	12635.2	13569.6	15375.1	16325.4	16192.4	14171.5	12603.6	14744.8	15869.3	15847.1
52.5°	12632.1	13908.6	15748.9	16800.5	16882.9	14697.3	12828.4	14982.4	16078.3	16265.2
55°	12774.6	13800.9	15701.4	16537.6	16505.9	14462.9	12853.8	15140.7	16334.9	16518.6
57.5°	12049.2	12362.8	12958.3	13620.3	13449.3	11979.6	11479.1	13997.3	14991.9	14858.8
60°	10405.3	9423.4	8751.9	8720.2	8387.6	7928.3	9394.9	12492.7	12492.7	12362.8
62.5°	9112.9	6186.2	5315.1	5068.0	5305.6	5834.6	9062.3	12150.6	11805.3	11656.5
65°	7969.5	4722.8	3842.2	3772.5	4184.3	4982.5	8194.4	10351.4	9743.3	9249.2
67.5°	5128.2	3458.9	2857.1	2733.6	3230.9	3658.5	5454.5	6366.7	5983.4	5790.2
70°	3306.9	2252.1	1590.1	1491.9	1685.1	2255.3	3484.3	3712.3	3154.8	3025.0
72.5°	1564.8	972.4	557.5	459.3	516.3	861.6	1377.9	1482.4	1232.2	1127.6
75°	497.3	357.9	228.1	196.4	186.9	221.7	316.8	243.9	177.4	174.2
77.5°	221.7	212.2	180.5	152.0	133.0	110.9	91.9	76.0	79.2	82.4
80°	183.7	167.9	148.9	133.0	110.9	85.5	66.5	50.7	50.7	53.8
82.5°	161.5	145.7	129.9	110.9	95.0	69.7	50.7	34.8	31.7	31.7
85°	69.7	82.4	88.7	95.0	76.0	57.0	34.8	22.2	19.0	19.0
87.5°	28.5	25.3	22.2	19.0	15.8	15.8	12.7	9.5	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)