

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: P531850

Luminaire Tested: **GALN-SA7A-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18851 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 215
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



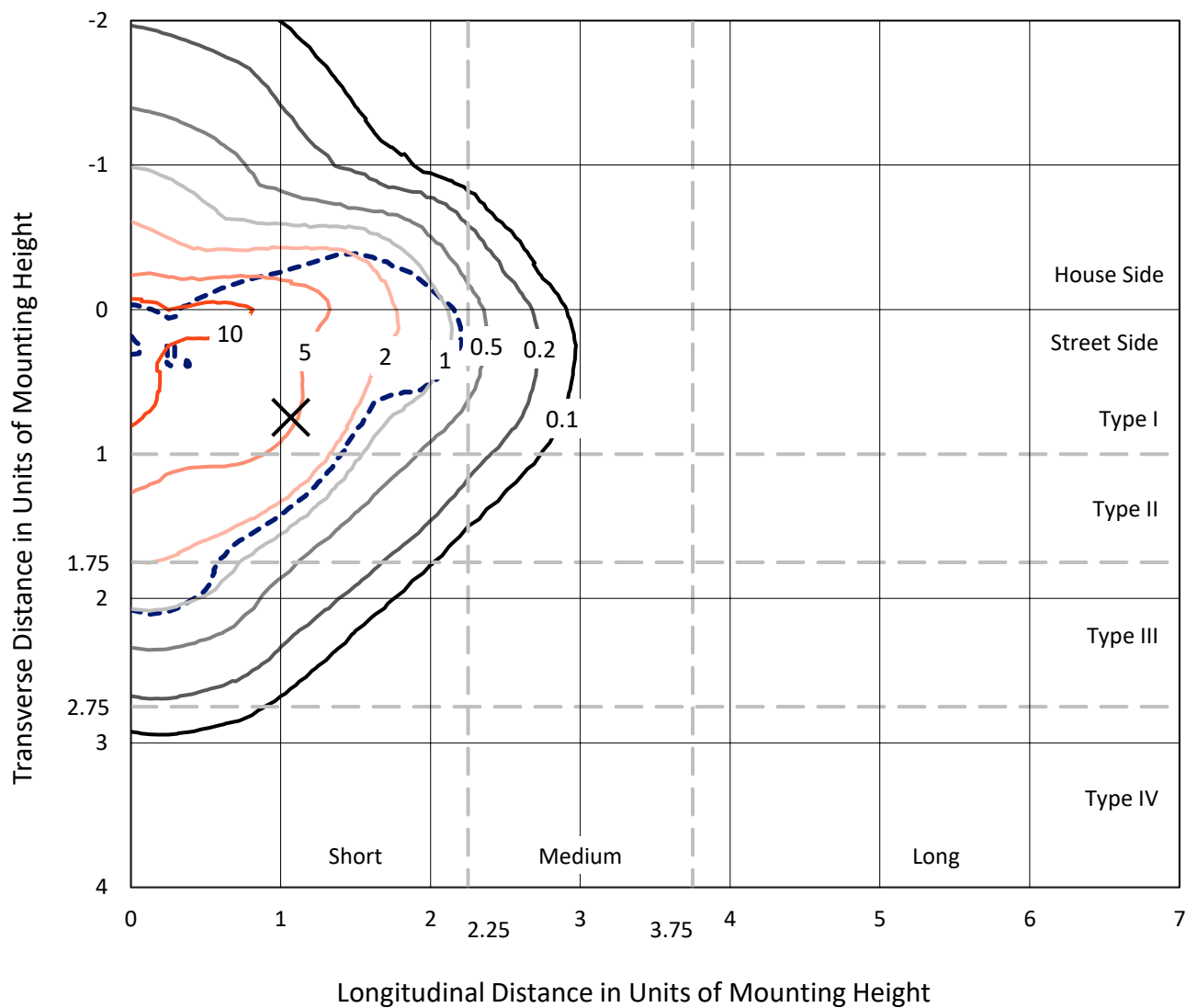
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

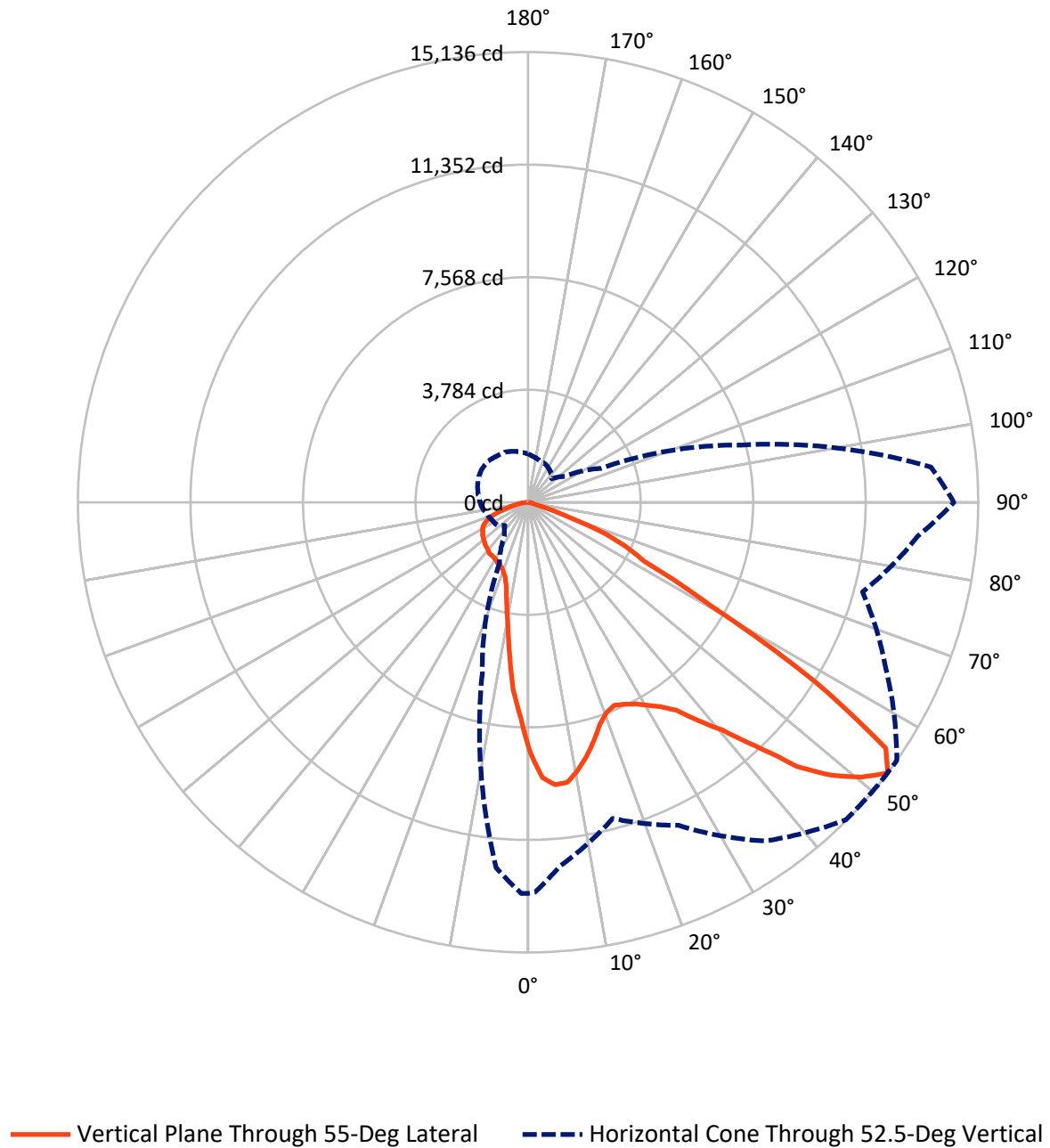
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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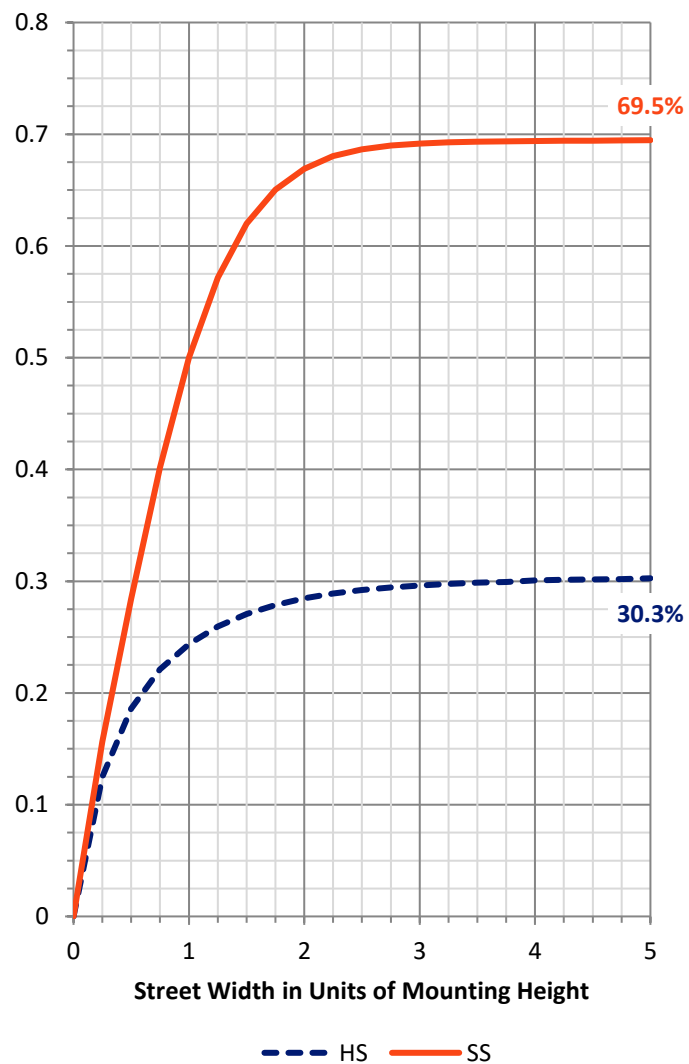
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5750.6	0.0	5750.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13100.4	0.0	13100.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	18851.0	0.0	18851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.4	3.4
10°-20°	1385.2	7.3
20°-30°	2100.4	11.1
30°-40°	3034.7	16.1
40°-50°	4055.2	21.5
50°-60°	4526.5	24.0
60°-70°	2483.0	13.2
70°-80°	536.8	2.8
80°-90°	86.8	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°	18851.0	100.0
0°-180°	18851.0	100.0

Coefficient of Utilization



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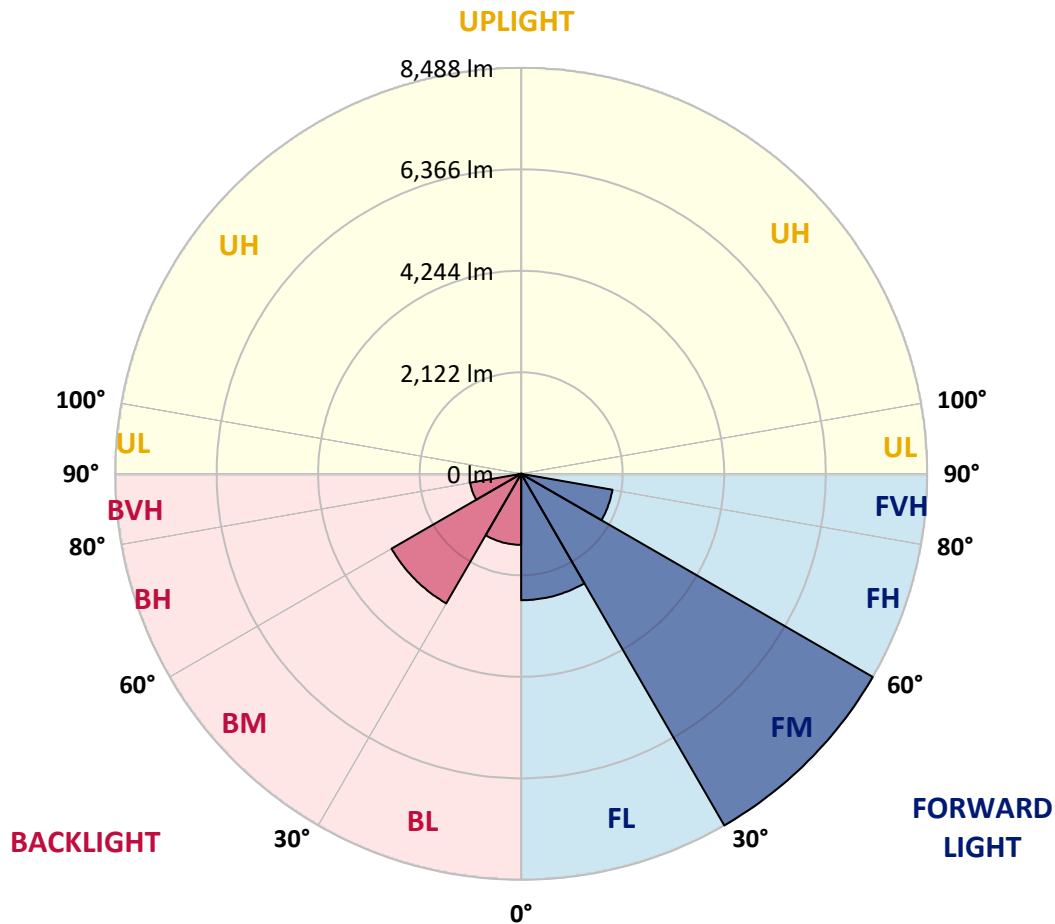
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2643.3	14.0			
FM	(30°-60°)	8487.6	45.0			
FH	(60°-80°)	1937.4	10.3			G2/5000
FVH	(80°-90°)	32.2	0.2			G1/100
BL	(0°-30°)	1484.7	7.9	B3/2500		
BM	(30°-60°)	3128.8	16.6	B3/5000		
BH	(60°-80°)	1082.4	5.7	B3/2500		G3/2500
BVH	(80°-90°)	54.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0
2.5°	8824.6	8775.1	8819.1	9028.3	9149.4	9232.0	9284.3	9276.1	9077.9	8885.2	8885.2
5°	8565.9	8502.6	8593.4	9066.9	9543.0	9584.3	9653.2	9540.3	9248.5	8896.2	8455.8
7.5°	7817.2	7864.0	8015.4	8637.5	9256.8	9567.8	9650.4	9507.3	9033.8	8376.0	7729.1
10°	7170.4	7280.5	7630.0	8301.7	8871.4	9276.1	9366.9	9166.0	8791.6	7985.1	7407.1
12.5°	6947.4	6878.6	7266.7	7938.3	8483.3	8700.8	8742.1	8755.8	8502.6	7786.9	7082.3
15°	6919.9	6963.9	7266.7	7775.9	8111.7	8122.7	8191.6	8298.9	8331.9	7921.8	7233.7
17.5°	7316.2	7263.9	7575.0	7979.6	7820.0	7660.3	7676.8	7831.0	8103.5	8037.4	7709.9
20°	7902.5	8020.9	8265.9	8224.6	7795.2	7390.6	7393.3	7539.2	8075.9	8516.4	8373.2
22.5°	8876.9	8992.5	9174.2	8676.0	7795.2	7310.7	7217.2	7415.3	8252.1	9086.1	9121.9
25°	9766.0	9978.0	10027.5	9441.2	8186.0	7385.1	7324.5	7519.9	8428.3	9642.1	9980.7
27.5°	10575.3	10652.3	10869.8	9933.9	8403.5	7434.6	7429.1	7679.6	8651.2	9920.1	10748.7
30°	11213.8	11205.6	11329.4	10244.9	8750.3	7712.6	7445.6	7919.1	8943.0	10379.8	11458.8
32.5°	11648.7	11742.3	12003.8	10677.1	8896.2	7976.9	7767.7	8199.8	9298.1	10597.3	11959.8
35°	12413.9	12576.3	12246.0	10916.6	9358.6	8238.3	7993.4	8582.4	9474.2	10834.0	12573.6
37.5°	13135.1	13011.2	12675.4	11045.9	9658.7	8722.8	8494.3	9322.8	10022.0	11348.7	12981.0
40°	13597.5	13594.8	12997.5	11150.5	9870.6	9463.2	9449.5	10074.3	10693.6	11673.5	13437.9
42.5°	13798.5	13991.2	13129.6	11139.5	10316.5	10360.6	10638.6	11197.3	11169.8	11739.6	13426.9
44°	14073.7	14189.3	13358.1	11164.3	10613.8	10966.1	11621.2	11976.3	11585.4	11703.8	13413.1
45°	14062.7	14071.0	13033.3	11197.3	10867.0	11472.6	12058.9	12658.9	11951.5	11626.7	13594.8
47.5°	13740.7	13647.1	12758.0	10952.3	11657.0	12810.3	13352.6	13715.9	12402.9	11461.6	13369.1
50°	13104.8	12997.5	12089.1	10847.8	11822.2	13641.6	14390.3	14522.4	12813.1	11299.2	13146.1
52.5°	13148.9	13118.6	12279.1	11004.6	11987.3	13903.1	15103.2	15136.2	13278.2	11640.5	13148.9
55°	13936.1	13831.5	12824.1	11200.1	11866.2	13597.5	14649.0	14591.2	13121.3	11434.0	13391.1
57.5°	12752.5	12821.3	12069.9	10426.6	10385.3	11054.2	11516.6	11373.5	10949.6	10319.3	12458.0
60°	10289.0	10484.4	10556.0	8720.0	7836.5	7492.4	7354.8	7101.5	7173.1	8477.8	10944.1
62.5°	8824.6	8813.6	9262.3	7905.3	5133.5	4415.1	4349.0	4406.8	5232.6	8345.7	10718.4
65°	6997.0	7184.1	7321.8	6699.7	4062.7	3278.3	3275.5	3641.6	4527.9	6974.9	8654.0
67.5°	4442.6	4687.6	4858.2	4285.7	2716.8	2334.2	2270.8	2711.3	3137.9	4574.7	5210.6
70°	2504.8	2620.4	2697.5	2471.8	1728.6	1211.1	1139.6	1244.1	1896.5	2961.7	3088.3
72.5°	966.1	1018.4	1123.0	1131.3	652.4	390.9	316.5	379.9	798.2	1172.6	1117.5
75°	148.6	159.6	225.7	269.7	187.2	143.1	151.4	156.9	223.0	302.8	253.2
77.5°	71.6	71.6	68.8	79.8	93.6	101.8	110.1	121.1	132.1	145.9	140.4
80°	46.8	46.8	46.8	55.1	68.8	82.6	93.6	99.1	104.6	115.6	110.1
82.5°	30.3	30.3	30.3	41.3	55.1	68.8	74.3	88.1	99.1	115.6	107.3
85°	16.5	16.5	16.5	27.5	41.3	57.8	55.1	44.0	24.8	2.8	5.5
87.5°	5.5	5.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0
2.5°	8654.0	8527.4	8516.4	8257.6	8026.4	7913.5	7822.7	7569.5	7624.5	7478.6	7475.9
5°	8235.6	7976.9	7558.5	7214.4	6870.3	6801.5	6501.5	6240.0	6248.3	6061.1	6094.1
7.5°	7484.2	7305.2	6796.0	6256.5	5799.6	5474.8	5191.3	5020.6	4803.2	4728.9	4690.3
10°	7008.0	6787.8	6215.2	5538.1	5026.1	4852.7	4580.2	4428.8	4205.9	4095.8	4018.7
12.5°	6798.8	6476.7	5761.1	5072.9	4731.6	4552.7	4321.5	4046.2	3782.0	3680.1	3539.8
15°	6820.8	6435.4	5628.9	4885.8	4475.6	4128.8	3922.4	3616.8	3347.1	3168.2	3066.3
17.5°	7153.8	6685.9	5689.5	4742.6	4153.6	3718.7	3314.1	2983.8	2769.1	2634.2	2601.1
20°	7941.1	7305.2	5791.3	4511.4	3831.5	3289.3	2791.1	2447.0	2281.9	2279.1	2281.9
22.5°	8596.2	7965.8	5997.8	4373.8	3509.5	2738.8	2243.3	2133.2	2100.2	2169.0	2177.3
25°	9479.7	8709.0	6352.9	4302.2	3212.2	2334.2	2028.6	1987.3	1984.6	2072.7	2075.4
27.5°	10385.3	9358.6	6564.8	4093.0	2909.4	2125.0	1899.3	1891.0	1935.0	2028.6	2020.4
30°	11001.9	9903.6	6947.4	3842.5	2551.6	1940.5	1847.0	1858.0	1918.5	1990.1	2001.1
32.5°	11720.3	10440.4	7046.5	3704.9	2331.4	1786.4	1720.3	1745.1	1822.2	1935.0	1995.6
35°	12543.3	10820.2	7197.9	3517.7	2248.8	1668.0	1635.0	1662.5	1756.1	1830.4	1896.5
37.5°	13151.6	11491.8	7225.4	3371.9	2158.0	1602.0	1549.7	1640.5	1695.6	1800.2	1833.2
40°	13603.0	11979.0	7297.0	3281.0	2086.4	1516.6	1516.6	1577.2	1651.5	1747.9	1813.9
42.5°	13892.1	12334.1	7349.3	3198.4	1948.8	1491.9	1478.1	1538.7	1637.8	1731.3	1761.6
44°	14068.2	12485.5	7297.0	3121.4	1910.3	1461.6	1461.6	1513.9	1591.0	1701.1	1736.9
45°	14112.3	12675.4	7181.4	3118.6	1863.5	1425.8	1420.3	1519.4	1571.7	1706.6	1728.6
47.5°	14282.9	12909.4	7195.1	3030.5	1750.6	1340.5	1436.8	1480.9	1527.7	1646.0	1720.3
50°	14277.4	13055.3	7164.9	2901.2	1668.0	1244.1	1403.8	1453.3	1500.1	1621.2	1651.5
52.5°	14316.0	13600.3	7442.9	2694.7	1519.4	1120.3	1293.7	1403.8	1461.6	1563.4	1626.8
55°	14296.7	13911.3	7718.1	2540.6	1310.2	1046.0	1200.1	1329.5	1412.1	1519.4	1549.7
57.5°	13058.0	12295.6	7142.8	2251.6	1084.5	957.9	1068.0	1252.4	1357.0	1467.1	1505.6
60°	10668.8	9477.0	5890.4	1657.0	891.8	880.8	993.7	1227.6	1271.7	1368.0	1434.1
62.5°	9859.6	8312.7	4671.1	1266.2	762.5	806.5	916.6	1109.3	1178.1	1296.4	1357.0
65°	7715.4	5521.6	2892.9	856.0	671.6	723.9	828.5	971.6	1084.5	1194.6	1266.2
67.5°	4569.2	3016.8	1431.3	600.1	586.3	641.3	748.7	856.0	985.4	1106.5	1142.3
70°	2488.3	1483.6	611.1	456.9	498.2	547.8	652.4	726.7	850.5	944.1	1004.7
72.5°	798.2	451.4	305.5	338.6	379.9	437.7	501.0	591.8	679.9	734.9	784.5
75°	192.7	189.9	217.5	236.7	275.3	319.3	371.6	418.4	487.2	539.5	583.5
77.5°	134.9	145.9	167.9	195.4	209.2	225.7	258.7	294.5	324.8	363.3	390.9
80°	104.6	112.9	129.4	143.1	156.9	170.7	187.2	200.9	220.2	245.0	258.7
82.5°	99.1	104.6	121.1	129.4	123.9	121.1	132.1	137.6	140.4	148.6	156.9
85°	8.3	0.0	5.5	19.3	46.8	68.8	74.3	74.3	71.6	77.1	77.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.0	8.3
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°	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0
2.5°	7442.9	7349.3	7385.1	7429.1	7365.8	7219.9	7258.4	7241.9	7390.6	7379.6	7528.2
5°	6240.0	6094.1	6110.6	6325.3	6256.5	6330.8	6182.2	6162.9	6190.5	6204.2	6229.0
7.5°	4775.7	4756.4	4921.5	5103.2	5188.5	5100.5	4954.6	4921.5	4891.3	4830.7	4968.3
10°	3897.6	3903.1	3892.1	4029.7	4126.1	4106.8	4018.7	4007.7	3949.9	3927.9	4004.9
12.5°	3479.2	3404.9	3369.1	3325.1	3399.4	3448.9	3410.4	3382.9	3385.6	3413.1	3424.2
15°	3074.6	3027.8	2950.7	2901.2	2937.0	2912.2	2898.4	2953.5	2939.7	2934.2	3000.3
17.5°	2620.4	2659.0	2653.4	2598.4	2645.2	2625.9	2623.2	2584.6	2532.3	2493.8	2515.8
20°	2320.4	2392.0	2447.0	2449.8	2474.5	2471.8	2430.5	2312.1	2273.6	2265.3	2270.8
22.5°	2213.0	2251.6	2317.6	2411.2	2411.2	2367.2	2317.6	2180.0	2144.2	2105.7	2089.2
25°	2127.7	2202.0	2287.4	2298.4	2342.4	2301.1	2221.3	2152.5	2078.2	2025.9	2025.9
27.5°	2083.7	2166.2	2229.6	2248.8	2309.4	2276.3	2193.8	2105.7	2017.6	2014.9	1968.1
30°	2064.4	2141.5	2182.8	2229.6	2257.1	2204.8	2180.0	2086.4	1998.3	1976.3	1899.3
32.5°	2006.6	2116.7	2193.8	2182.8	2204.8	2182.8	2147.0	2069.9	1970.8	1921.3	1913.0
35°	1940.5	2050.6	2133.2	2191.0	2204.8	2158.0	2136.0	2031.4	1896.5	1871.7	1786.4
37.5°	1904.8	1970.8	2072.7	2166.2	2185.5	2160.7	2086.4	1979.1	1844.2	1816.7	1742.4
40°	1860.7	1946.0	2025.9	2102.9	2160.7	2100.2	2014.9	1910.3	1849.7	1767.1	1745.1
42.5°	1827.7	1924.0	1990.1	2075.4	2141.5	2061.7	1962.6	1891.0	1805.7	1750.6	1687.3
44°	1816.7	1904.8	1948.8	2053.4	2108.4	2047.9	1965.3	1891.0	1791.9	1742.4	1687.3
45°	1778.1	1899.3	1946.0	2039.6	2086.4	2036.9	1932.3	1858.0	1786.4	1725.8	1668.0
47.5°	1739.6	1822.2	1902.0	1976.3	2009.4	1992.8	1904.8	1813.9	1728.6	1692.8	1637.8
50°	1728.6	1811.2	1885.5	1954.3	1992.8	1959.8	1880.0	1791.9	1692.8	1635.0	1588.2
52.5°	1673.5	1775.4	1858.0	1880.0	1929.5	1910.3	1849.7	1753.4	1659.8	1610.2	1571.7
55°	1593.7	1701.1	1813.9	1841.4	1913.0	1882.7	1791.9	1701.1	1621.2	1546.9	1497.4
57.5°	1563.4	1668.0	1778.1	1813.9	1858.0	1808.4	1786.4	1690.1	1563.4	1524.9	1447.8
60°	1486.4	1618.5	1709.3	1791.9	1794.7	1780.9	1742.4	1632.3	1527.7	1456.1	1401.0
62.5°	1425.8	1549.7	1621.2	1698.3	1745.1	1706.6	1668.0	1566.2	1453.3	1373.5	1310.2
65°	1337.7	1450.6	1511.1	1557.9	1610.2	1604.7	1538.7	1464.4	1346.0	1282.7	1222.1
67.5°	1202.9	1302.0	1384.5	1428.6	1461.6	1453.3	1403.8	1351.5	1230.4	1167.1	1123.0
70°	1040.5	1142.3	1194.6	1219.4	1252.4	1268.9	1230.4	1205.6	1098.3	1015.7	974.4
72.5°	836.8	902.8	979.9	1001.9	1015.7	1026.7	1026.7	1004.7	894.6	861.5	790.0
75°	616.6	668.9	726.7	726.7	751.4	754.2	759.7	745.9	663.4	619.3	602.8
77.5°	418.4	456.9	503.7	523.0	539.5	536.7	534.0	495.5	451.4	432.1	415.6
80°	272.5	311.0	333.1	357.8	374.3	371.6	377.1	349.6	330.3	297.3	302.8
82.5°	162.4	192.7	214.7	245.0	245.0	253.2	253.2	245.0	225.7	209.2	209.2
85°	77.1	101.8	115.6	134.9	145.9	148.6	132.1	112.9	93.6	85.3	93.6
87.5°	13.8	19.3	27.5	24.8	30.3	27.5	27.5	27.5	27.5	22.0	24.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0	8409.0
2.5°	7473.1	7610.8	7707.1	7866.8	8142.0	8362.2	8587.9	8755.8	8775.1	8824.6
5°	6319.8	6394.1	6639.1	6958.4	7184.1	7555.7	7795.2	8230.1	8392.5	8565.9
7.5°	4935.3	5056.4	5384.0	5598.7	6094.1	6559.3	7041.0	7577.7	7792.4	7817.2
10°	4161.8	4338.0	4561.0	4905.0	5174.8	5692.2	6292.3	6889.6	7129.1	7170.4
12.5°	3655.4	3881.1	4178.4	4426.1	4684.8	5136.2	5711.5	6449.2	6760.2	6947.4
15°	3168.2	3402.1	3729.7	4073.8	4302.2	4841.7	5518.8	6350.1	6754.7	6919.9
17.5°	2667.2	2884.7	3154.4	3526.0	3985.7	4591.2	5488.6	6680.4	7123.6	7316.2
20°	2237.8	2358.9	2672.7	3055.3	3630.6	4335.2	5499.6	7167.6	7817.2	7902.5
22.5°	2069.9	2097.4	2221.3	2573.6	3204.0	4073.8	5695.0	7858.5	8596.2	8876.9
25°	1940.5	1935.0	1968.1	2204.8	2892.9	3971.9	5887.7	8494.3	9460.5	9766.0
27.5°	1869.0	1813.9	1816.7	2039.6	2672.7	3806.8	6135.4	9223.8	10440.4	10575.3
30°	1833.2	1822.2	1789.1	1880.0	2433.2	3559.0	6176.7	9942.2	11018.4	11213.8
32.5°	1811.2	1703.8	1662.5	1695.6	2207.5	3289.3	6330.8	10415.6	11734.1	11648.7
35°	1701.1	1604.7	1577.2	1610.2	2047.9	3137.9	6229.0	10828.5	12270.8	12413.9
37.5°	1659.8	1574.5	1519.4	1491.9	1899.3	3011.3	6176.7	11464.3	12791.0	13135.1
40°	1621.2	1530.4	1464.4	1436.8	1783.6	2843.4	6160.2	11954.3	13391.1	13597.5
42.5°	1577.2	1519.4	1445.1	1395.5	1643.3	2675.5	5970.3	12105.7	13575.5	13798.5
44°	1563.4	1475.4	1398.3	1381.8	1588.2	2590.1	5931.7	12243.3	13735.2	14073.7
45°	1549.7	1467.1	1379.0	1357.0	1568.9	2543.3	5879.4	12276.3	13999.4	14062.7
47.5°	1511.1	1458.8	1373.5	1313.0	1527.7	2441.5	5722.5	12089.1	13729.7	13740.7
50°	1480.9	1420.3	1332.2	1213.9	1472.6	2356.2	5794.1	12020.3	13080.1	13104.8
52.5°	1447.8	1357.0	1307.5	1103.8	1381.8	2284.6	5945.5	12331.4	13154.4	13148.9
55°	1409.3	1310.2	1189.1	1010.2	1230.4	2193.8	6311.6	12945.2	13842.5	13936.1
57.5°	1348.7	1263.4	1090.0	927.6	1057.0	2020.4	6193.2	11769.9	12736.0	12752.5
60°	1268.9	1189.1	988.2	864.3	867.0	1593.7	5538.1	9171.5	10049.5	10289.0
62.5°	1191.8	1147.8	902.8	773.5	737.7	1268.9	4682.1	7621.8	8626.5	8824.6
65°	1101.0	993.7	828.5	704.6	633.1	889.1	3316.8	5695.0	6730.0	6997.0
67.5°	985.4	869.8	729.4	619.3	542.3	594.5	1712.1	3237.0	4285.7	4442.6
70°	861.5	754.2	613.8	523.0	437.7	410.1	754.2	1544.2	2342.4	2504.8
72.5°	707.4	608.3	490.0	412.9	327.6	283.5	253.2	412.9	831.3	966.1
75°	512.0	443.2	368.8	294.5	231.2	181.7	148.6	123.9	137.6	148.6
77.5°	377.1	322.0	272.5	209.2	162.4	129.4	101.8	77.1	74.3	71.6
80°	294.5	261.5	217.5	167.9	126.6	96.3	71.6	52.3	46.8	46.8
82.5°	231.2	214.7	178.9	137.6	104.6	77.1	52.3	35.8	30.3	30.3
85°	88.1	88.1	129.4	112.9	79.8	55.1	35.8	19.3	16.5	16.5
87.5°	22.0	22.0	22.0	22.0	19.3	16.5	16.5	8.3	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)