

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: P531852

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531852
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-SA7A-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 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 III - 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



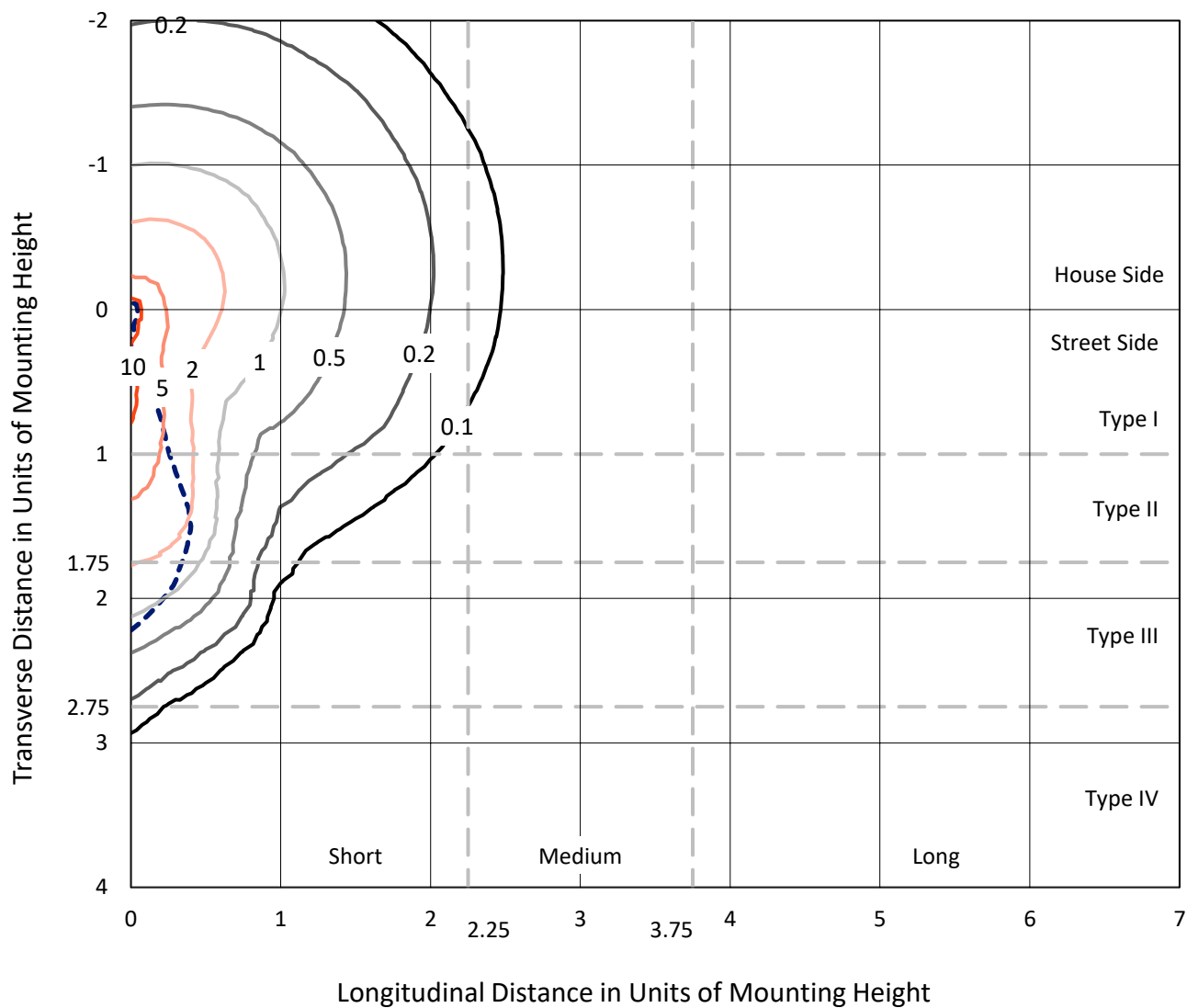
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

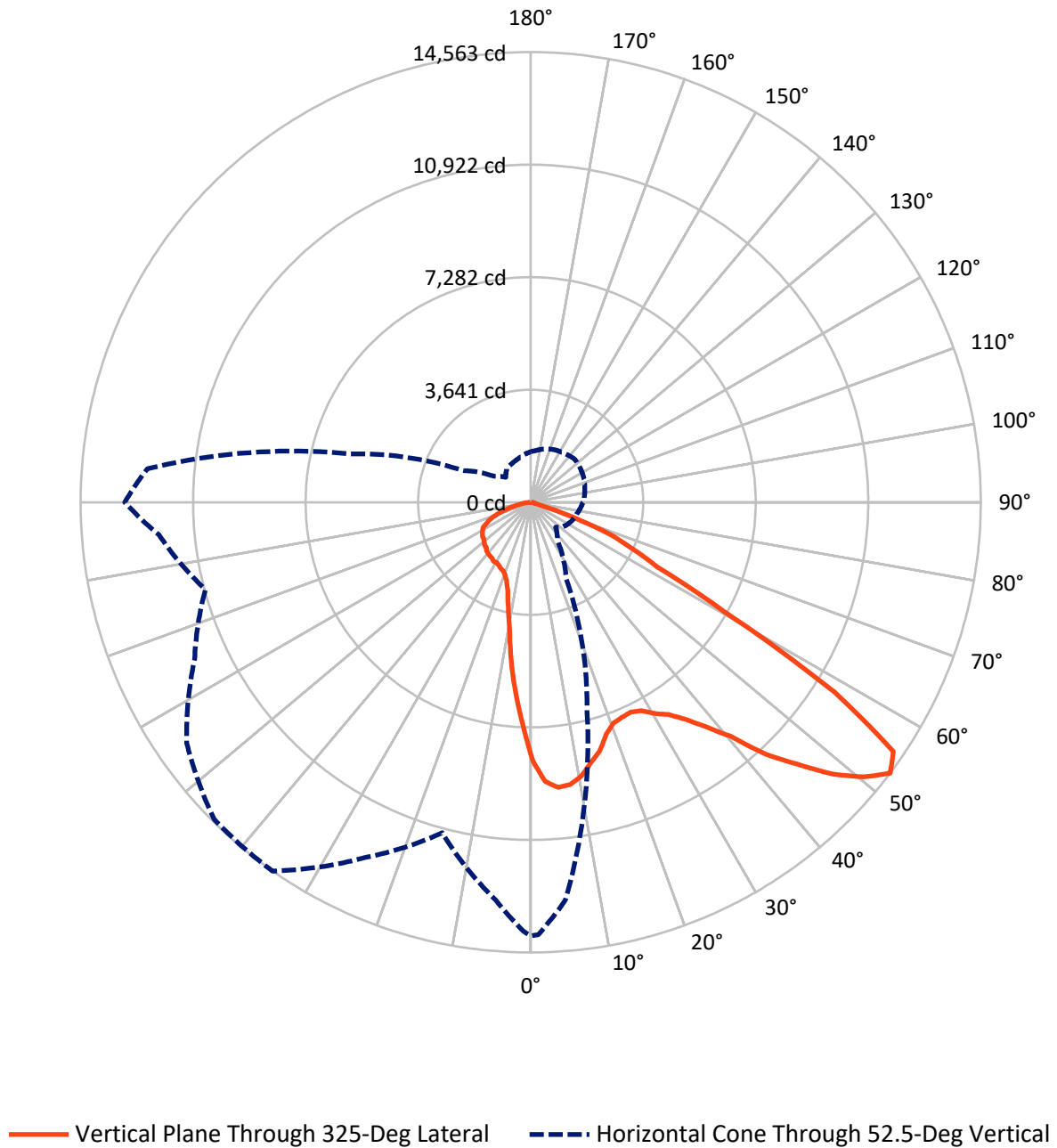


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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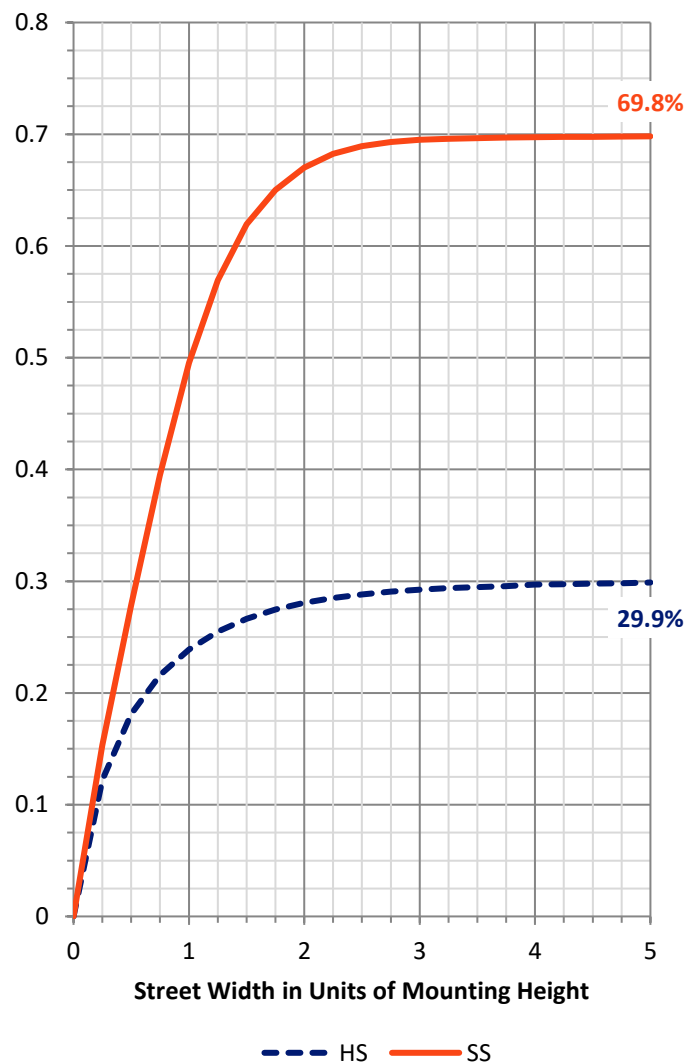
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5682.8	0.0	5682.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	13168.2	0.0	13168.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	18851.0	0.0	18851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.3	3.4
10°-20°	1383.7	7.3
20°-30°	2090.6	11.1
30°-40°	3021.0	16.0
40°-50°	4020.4	21.3
50°-60°	4497.0	23.9
60°-70°	2534.5	13.4
70°-80°	565.0	3.0
80°-90°	100.6	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°	18851.0	100.0
0°-180°	18851.0	100.0

Coefficient of Utilization



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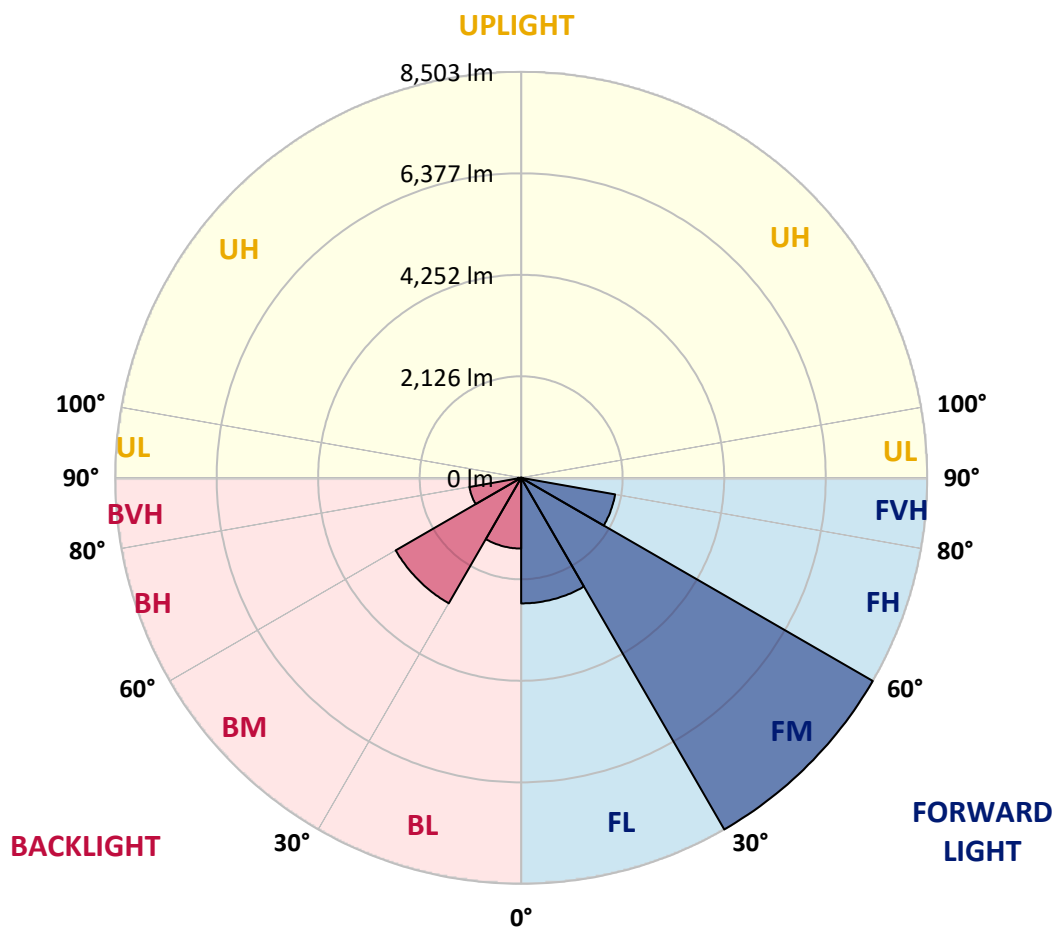
CATALOG NUMBER: GALN-SA7A-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2630.6	14.0			
FM	(30°-60°)	8503.2	45.1			
FH	(60°-80°)	1997.9	10.6			G2/5000
FVH	(80°-90°)	36.4	0.2			G1/100
BL	(0°-30°)	1481.9	7.9	B3/2500		
BM	(30°-60°)	3035.2	16.1	B3/5000		
BH	(60°-80°)	1101.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	64.2	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°	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2
2.5°	8505.5	8642.1	8494.6	8232.3	8046.5	7877.1	7699.5	7664.0	7431.8	7390.8	7221.4
5°	8021.9	7991.9	7811.5	7467.3	7087.5	6743.2	6489.1	6243.2	6076.6	5882.6	5868.9
7.5°	7434.5	7259.6	7155.8	6633.9	6164.0	5623.0	5390.8	5016.4	4898.9	4724.1	4633.9
10°	6909.9	6781.5	6538.3	6016.4	5360.7	5002.8	4754.1	4552.0	4415.3	4235.0	4008.2
12.5°	6650.3	6598.4	6325.2	5516.4	5030.1	4647.6	4472.7	4276.0	4043.7	3754.1	3642.1
15°	6696.8	6521.9	6314.3	5420.8	4748.7	4379.8	4101.1	3855.2	3557.4	3281.4	3120.2
17.5°	7043.8	6909.9	6494.6	5480.9	4642.1	4109.3	3603.9	3240.5	2972.7	2724.1	2612.0
20°	7726.8	7532.8	7065.6	5557.4	4412.6	3732.3	3153.0	2704.9	2418.1	2286.9	2248.7
22.5°	8483.7	8368.9	7623.0	5729.6	4229.5	3382.5	2674.9	2226.8	2120.2	2084.7	2155.8
25°	9404.4	9106.6	8489.1	6011.0	4087.5	3084.7	2270.5	2021.9	1967.2	2002.7	2084.7
27.5°	10103.9	10024.7	9095.7	6276.0	3893.5	2726.8	2043.7	1879.8	1896.2	1931.7	2008.2
30°	10934.5	10532.9	9683.1	6459.1	3718.6	2480.9	1885.3	1841.5	1857.9	1918.0	1956.3
32.5°	11434.5	11284.2	10052.0	6735.0	3516.4	2267.8	1762.3	1721.3	1745.9	1836.1	1926.2
35°	12071.1	11773.3	10508.3	6806.1	3374.3	2183.1	1674.9	1644.8	1702.2	1765.0	1866.1
37.5°	12814.3	12609.4	11139.4	6756.9	3297.8	2095.6	1601.1	1587.4	1628.4	1715.9	1833.3
40°	13254.2	13191.4	11470.0	6786.9	3177.6	2019.1	1516.4	1532.8	1617.5	1685.8	1800.6
42.5°	13677.7	13267.9	11959.1	6776.0	3101.1	1915.3	1524.6	1505.5	1571.1	1650.3	1759.6
45°	13770.6	13363.5	12073.9	6699.5	3008.2	1814.2	1461.8	1470.0	1549.2	1647.6	1718.6
47.5°	13710.5	13409.9	12287.0	6677.7	2920.8	1743.2	1368.9	1467.2	1513.7	1592.9	1694.0
50°	13669.5	13653.1	12467.3	6781.5	2803.3	1631.2	1256.8	1431.7	1478.2	1557.4	1666.7
52.5°	14030.2	13994.7	12918.1	7054.7	2710.4	1510.9	1142.1	1341.5	1453.6	1530.1	1636.6
55°	14248.8	14093.0	13691.4	7390.8	2554.7	1352.5	1062.9	1229.5	1393.5	1461.8	1571.1
57.5°	12817.0	12710.5	12385.3	6899.0	2292.4	1144.8	964.5	1114.8	1311.5	1418.0	1530.1
60°	10664.0	10497.4	9664.0	5863.4	1691.3	890.7	904.4	1024.6	1289.6	1330.6	1461.8
62.5°	10054.7	9642.2	8508.3	4718.6	1297.8	765.0	811.5	942.6	1174.9	1243.2	1374.3
65°	7978.2	7672.2	6087.5	3407.1	868.9	663.9	740.4	849.7	1013.7	1147.6	1267.8
67.5°	4994.6	4702.2	3248.7	1612.0	606.6	568.3	661.2	776.0	909.8	1030.1	1163.9
70°	2609.3	2289.6	1500.0	582.0	418.0	464.5	551.9	661.2	792.4	890.7	994.5
72.5°	972.7	789.6	489.1	251.4	289.6	355.2	448.1	527.3	620.2	740.4	797.8
75°	150.3	128.4	125.7	153.0	196.7	256.8	319.7	398.9	480.9	557.4	595.6
77.5°	71.0	68.3	76.5	101.1	131.1	183.1	232.2	308.7	374.3	423.5	445.4
80°	46.4	43.7	49.2	68.3	98.4	136.6	185.8	237.7	297.8	338.8	333.3
82.5°	27.3	30.1	30.1	46.4	68.3	98.4	133.9	180.3	221.3	256.8	235.0
85°	16.4	13.7	13.7	27.3	46.4	79.2	112.0	76.5	79.2	79.2	90.2
87.5°	5.5	5.5	5.5	2.7	5.5	5.5	8.2	13.7	16.4	19.1	24.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2
2.5°	7215.9	7300.6	7270.6	7164.0	7246.0	7259.6	7205.0	7393.5	7429.0	7371.6	7388.0
5°	5849.8	5871.6	5920.8	6024.6	6098.4	6185.8	6185.8	6191.3	6117.5	6303.3	6248.7
7.5°	4557.4	4571.1	4628.5	4849.8	4912.6	5079.3	5150.3	5101.1	4953.6	4890.8	4942.7
10°	3934.5	3855.2	3836.1	3863.4	4005.5	4076.5	4136.6	4120.3	4095.7	4046.5	3991.8
12.5°	3519.2	3461.8	3415.3	3349.8	3358.0	3426.3	3472.7	3434.5	3445.4	3456.3	3472.7
15°	3068.3	3027.3	3002.8	2904.4	2893.5	2939.9	2956.3	2978.2	3019.2	3021.9	3002.8
17.5°	2590.2	2554.7	2609.3	2664.0	2625.7	2628.4	2658.5	2677.6	2666.7	2617.5	2592.9
20°	2262.3	2300.6	2355.2	2407.1	2448.1	2472.7	2483.6	2453.6	2418.1	2317.0	2314.2
22.5°	2166.7	2215.9	2262.3	2341.5	2379.8	2442.6	2385.3	2317.0	2267.8	2218.6	2161.2
25°	2095.6	2136.6	2229.5	2259.6	2333.4	2385.3	2344.3	2276.0	2191.3	2120.2	2076.5
27.5°	2043.7	2090.2	2150.3	2232.3	2289.6	2319.7	2278.7	2251.4	2164.0	2079.3	2016.4
30°	2010.9	2060.1	2169.4	2237.7	2286.9	2311.5	2240.5	2207.7	2144.8	2073.8	2019.1
32.5°	1989.1	2032.8	2125.7	2213.1	2245.9	2245.9	2256.8	2218.6	2131.2	2010.9	1964.5
35°	1918.0	1978.2	2054.7	2155.8	2215.9	2251.4	2196.7	2153.0	2095.6	1972.7	1888.0
37.5°	1877.1	1918.0	2016.4	2112.0	2164.0	2202.2	2180.3	2103.8	2027.3	1926.2	1857.9
40°	1833.3	1898.9	1986.4	2076.5	2133.9	2172.1	2155.8	2065.6	1972.7	1877.1	1830.6
42.5°	1803.3	1847.0	1937.2	2038.3	2106.6	2180.3	2131.2	2019.1	1953.6	1822.4	1770.5
45°	1778.7	1849.7	1945.4	1986.4	2057.4	2133.9	2046.5	1978.2	1901.7	1806.0	1762.3
47.5°	1748.6	1814.2	1877.1	1986.4	2019.1	2054.7	2038.3	1929.0	1863.4	1759.6	1729.5
50°	1737.7	1762.3	1877.1	1937.2	1983.6	2019.1	1975.4	1893.5	1830.6	1724.1	1658.5
52.5°	1694.0	1740.5	1814.2	1893.5	1950.8	1994.6	1923.5	1871.6	1786.9	1674.9	1633.9
55°	1639.4	1666.7	1797.8	1879.8	1909.9	1939.9	1912.6	1827.9	1740.5	1625.7	1584.7
57.5°	1568.3	1631.2	1737.7	1852.5	1890.7	1907.1	1863.4	1795.1	1685.8	1584.7	1519.1
60°	1494.5	1560.1	1677.6	1770.5	1808.8	1868.9	1803.3	1762.3	1636.6	1524.6	1453.6
62.5°	1420.8	1494.5	1582.0	1699.5	1732.3	1756.8	1740.5	1683.1	1582.0	1456.3	1368.9
65°	1333.3	1388.0	1497.3	1557.4	1579.2	1636.6	1579.2	1557.4	1467.2	1347.0	1273.2
67.5°	1202.2	1248.6	1344.3	1401.7	1418.0	1442.6	1439.9	1415.3	1314.2	1232.3	1166.7
70°	1051.9	1092.9	1153.0	1221.3	1229.5	1259.6	1232.3	1226.8	1161.2	1049.2	1013.7
72.5°	844.3	882.5	961.8	991.8	994.5	1005.5	991.8	972.7	956.3	838.8	803.3
75°	647.5	669.4	707.7	735.0	735.0	748.6	740.4	721.3	677.6	603.8	568.3
77.5°	450.8	472.7	521.9	538.3	535.5	541.0	516.4	497.3	431.7	393.4	363.4
80°	327.9	341.5	366.1	377.1	379.8	388.0	357.9	341.5	303.3	259.6	245.9
82.5°	237.7	245.9	248.6	262.3	262.3	248.6	240.4	224.0	196.7	169.4	158.5
85°	98.4	101.1	103.8	120.2	123.0	147.5	136.6	128.4	112.0	95.6	87.4
87.5°	24.6	27.3	35.5	30.1	35.5	35.5	38.3	43.7	43.7	35.5	35.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2
2.5°	7450.9	7472.7	7751.4	7786.9	7923.6	8062.9	8344.3	8546.5	8710.5	8817.0	8847.1
5°	6306.1	6445.4	6573.8	6781.5	6970.0	7237.8	7546.5	7929.0	8409.9	8655.8	8754.2
7.5°	4937.2	5101.1	5286.9	5489.1	5765.1	6246.0	6658.5	7101.2	7715.9	7970.0	8355.3
10°	4030.1	4213.1	4459.1	4614.8	4948.1	5407.1	5888.0	6399.0	6986.4	7352.5	7797.9
12.5°	3562.9	3713.1	3939.9	4267.8	4516.4	4814.2	5172.2	5817.0	6658.5	7005.5	7311.5
15°	3046.5	3213.1	3475.4	3838.8	4136.6	4491.8	4893.5	5595.7	6491.9	7027.4	7286.9
17.5°	2620.2	2740.5	3016.4	3330.6	3672.2	4060.1	4636.7	5584.7	6666.7	7352.5	7776.0
20°	2325.2	2341.5	2491.8	2759.6	3224.1	3729.5	4478.2	5530.1	7226.8	7912.6	8448.2
22.5°	2139.4	2123.0	2125.7	2352.5	2677.6	3404.4	4229.5	5715.9	7863.5	8803.4	9164.0
25°	2046.5	2002.7	1975.4	2024.6	2319.7	3019.2	4041.0	5961.8	8549.3	9538.3	9981.0
27.5°	1997.3	1920.8	1866.1	1874.3	2090.2	2825.2	3923.5	6068.4	9229.6	10562.9	10718.7
30°	1978.2	1882.5	1803.3	1776.0	1918.0	2554.7	3672.2	6251.4	9838.9	11125.8	11259.7
32.5°	1909.9	1792.4	1715.9	1691.3	1748.6	2317.0	3491.8	6382.6	10377.1	11737.8	11691.4
35°	1830.6	1732.3	1636.6	1590.2	1631.2	2164.0	3347.0	6319.7	11011.0	12213.2	12188.6
37.5°	1822.4	1694.0	1614.8	1538.3	1535.5	1975.4	3150.3	6379.8	11415.4	13065.7	12729.6
40°	1751.4	1669.4	1565.6	1502.7	1467.2	1879.8	2959.0	6237.8	12008.3	13409.9	13079.3
42.5°	1754.1	1631.2	1541.0	1467.2	1431.7	1740.5	2827.9	6199.5	12215.9	13970.1	13243.3
45°	1710.4	1590.2	1513.7	1426.2	1407.1	1633.9	2702.2	6021.9	12582.1	13997.4	13038.4
47.5°	1666.7	1560.1	1478.2	1374.3	1330.6	1595.6	2603.8	5874.4	12390.8	13740.6	12754.2
50°	1636.6	1513.7	1437.2	1363.4	1240.4	1530.1	2475.4	5838.8	12123.1	13393.6	12226.9
52.5°	1584.7	1475.4	1396.2	1338.8	1142.1	1470.0	2426.2	6046.5	12450.9	13134.0	12073.9
55°	1535.5	1423.5	1322.4	1210.4	1060.1	1311.5	2289.6	6240.5	12929.1	13732.4	12767.9
57.5°	1483.6	1377.1	1267.8	1133.9	980.9	1147.6	2147.6	6276.0	12032.9	12691.4	12120.3
60°	1415.3	1278.7	1196.7	1021.9	896.2	950.8	1702.2	5532.8	9333.4	10598.4	10617.6
62.5°	1338.8	1191.3	1120.2	915.3	808.7	819.7	1388.0	4650.3	7571.1	8773.3	9295.2
65°	1237.7	1095.6	1010.9	847.0	745.9	710.4	1016.4	3407.1	5751.4	7117.5	7710.4
67.5°	1106.6	972.7	866.1	737.7	666.7	609.3	694.0	1918.0	3396.2	4778.7	4959.1
70°	967.2	852.5	740.4	633.9	554.6	513.7	508.2	849.7	1623.0	2571.1	2926.3
72.5°	762.3	680.3	590.2	510.9	459.0	398.9	363.4	352.5	549.2	1046.5	1445.4
75°	546.5	478.1	426.2	374.3	336.1	303.3	276.0	251.4	229.5	262.3	360.7
77.5°	344.3	319.7	278.7	265.0	243.2	235.0	224.0	210.4	194.0	183.1	183.1
80°	232.2	215.8	202.2	199.5	191.3	188.5	191.3	177.6	161.2	147.5	153.0
82.5°	155.7	153.0	150.3	147.5	150.3	153.0	158.5	155.7	142.1	133.9	136.6
85°	92.9	98.4	103.8	109.3	120.2	106.6	87.4	73.8	65.6	60.1	57.4
87.5°	35.5	49.2	43.7	41.0	43.7	41.0	38.3	35.5	30.1	27.3	27.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2	8366.2
2.5°	9046.5	9101.2	9147.6	9136.7	9041.1	8912.6	8860.7	8595.7	8541.1	8505.5
5°	9169.5	9486.4	9554.7	9513.7	9265.1	8950.9	8644.9	8256.9	8030.1	8021.9
7.5°	8942.7	9333.4	9456.4	9549.3	9218.7	8672.2	8147.6	7565.6	7423.6	7434.5
10°	8366.2	8989.1	9292.4	9388.1	9008.3	8535.6	7808.8	7218.6	6915.4	6909.9
12.5°	8046.5	8535.6	8620.3	8754.2	8642.1	8164.0	7612.1	6950.9	6655.8	6650.3
15°	7762.4	8084.8	8109.4	8297.9	8358.0	8035.6	7664.0	6959.1	6721.4	6696.8
17.5°	8011.0	7786.9	7694.1	7718.6	7896.2	8013.7	7964.5	7423.6	7180.4	7043.8
20°	8177.7	7677.7	7396.2	7423.6	7633.9	8062.9	8412.6	8095.7	7710.4	7726.8
22.5°	8623.0	7694.1	7254.2	7224.1	7557.4	8319.7	8918.1	8945.4	8573.8	8483.7
25°	9289.7	7882.6	7210.4	7202.2	7521.9	8595.7	9508.3	9950.9	9571.1	9404.4
27.5°	9825.2	8177.7	7347.1	7374.4	7633.9	8819.7	10011.0	10598.4	10308.8	10103.9
30°	10295.2	8483.7	7538.3	7412.6	7934.5	8937.2	10226.9	11336.2	11103.9	10934.5
32.5°	10489.2	8918.1	7841.6	7633.9	8183.1	9079.3	10675.0	12052.0	11852.6	11434.5
35°	10817.0	9161.3	8005.5	7989.1	8617.6	9420.8	10885.3	12524.7	12442.7	12071.1
37.5°	11079.3	9407.2	8587.5	8407.2	9213.2	9994.6	11224.1	13177.7	12989.2	12814.3
40°	11281.5	9847.1	9131.2	9368.9	9945.4	10516.5	11535.6	13218.7	13762.4	13254.2
42.5°	11095.7	10240.5	10024.7	10593.0	11139.4	11112.1	11571.1	13535.6	13942.7	13677.7
45°	11049.3	10907.2	11437.3	11953.7	12079.3	11606.7	11317.0	13185.9	13888.1	13770.6
47.5°	10937.2	11562.9	12486.4	13328.0	13136.7	11937.3	11013.8	13123.1	13920.9	13710.5
50°	10899.0	11705.0	13262.4	14082.1	13967.3	12224.1	10871.7	12718.7	13688.6	13669.5
52.5°	10896.3	11997.4	13584.8	14491.9	14563.0	12677.7	11065.7	12923.6	13869.0	14030.2
55°	11019.2	11904.5	13543.8	14265.1	14237.8	12475.5	11087.5	13060.2	14090.3	14248.8
57.5°	10393.5	10664.0	11177.7	11748.7	11601.2	10333.4	9901.7	12073.9	12931.8	12817.0
60°	8975.5	8128.5	7549.2	7521.9	7235.0	6838.9	8103.9	10776.0	10776.0	10664.0
62.5°	7860.7	5336.1	4584.7	4371.6	4576.5	5032.8	7817.0	10481.0	10183.1	10054.7
65°	6874.4	4073.8	3314.2	3254.1	3609.3	4297.8	7068.4	8929.0	8404.4	7978.2
67.5°	4423.5	2983.6	2464.5	2357.9	2786.9	3155.8	4705.0	5491.8	5161.2	4994.6
70°	2852.5	1942.6	1371.6	1286.9	1453.6	1945.4	3005.5	3202.2	2721.3	2609.3
72.5°	1349.7	838.8	480.9	396.2	445.4	743.2	1188.5	1278.7	1062.9	972.7
75°	429.0	308.7	196.7	169.4	161.2	191.3	273.2	210.4	153.0	150.3
77.5°	191.3	183.1	155.7	131.1	114.8	95.6	79.2	65.6	68.3	71.0
80°	158.5	144.8	128.4	114.8	95.6	73.8	57.4	43.7	43.7	46.4
82.5°	139.3	125.7	112.0	95.6	82.0	60.1	43.7	30.1	27.3	27.3
85°	60.1	71.0	76.5	82.0	65.6	49.2	30.1	19.1	16.4	16.4
87.5°	24.6	21.9	19.1	16.4	13.7	13.7	10.9	8.2	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)