

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: P528114

Luminaire Tested: **GALN-SA3A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9249 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93
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



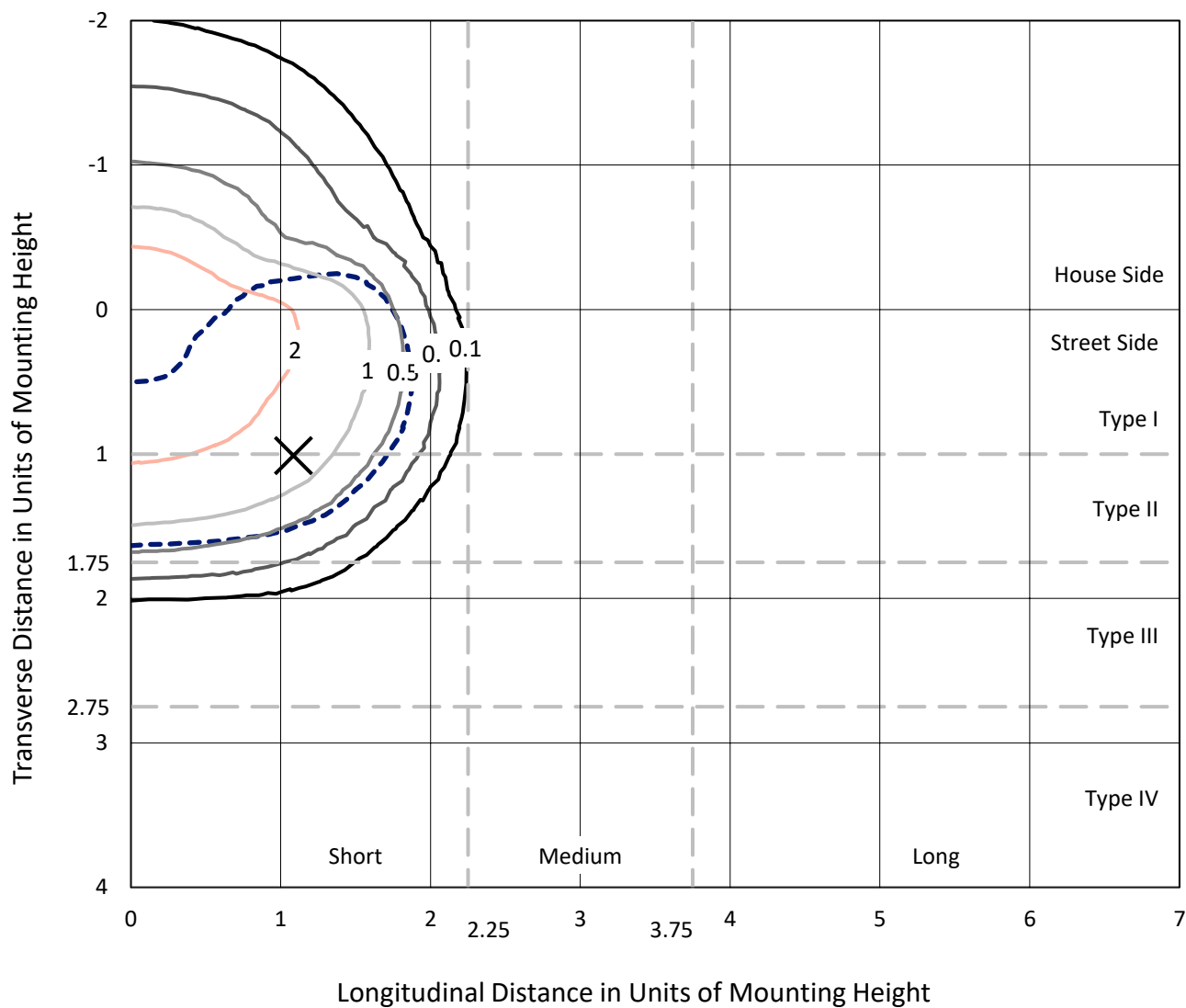
REPORT NUMBER: P528114

CATALOG NUMBER: GALN-SA3A-830-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



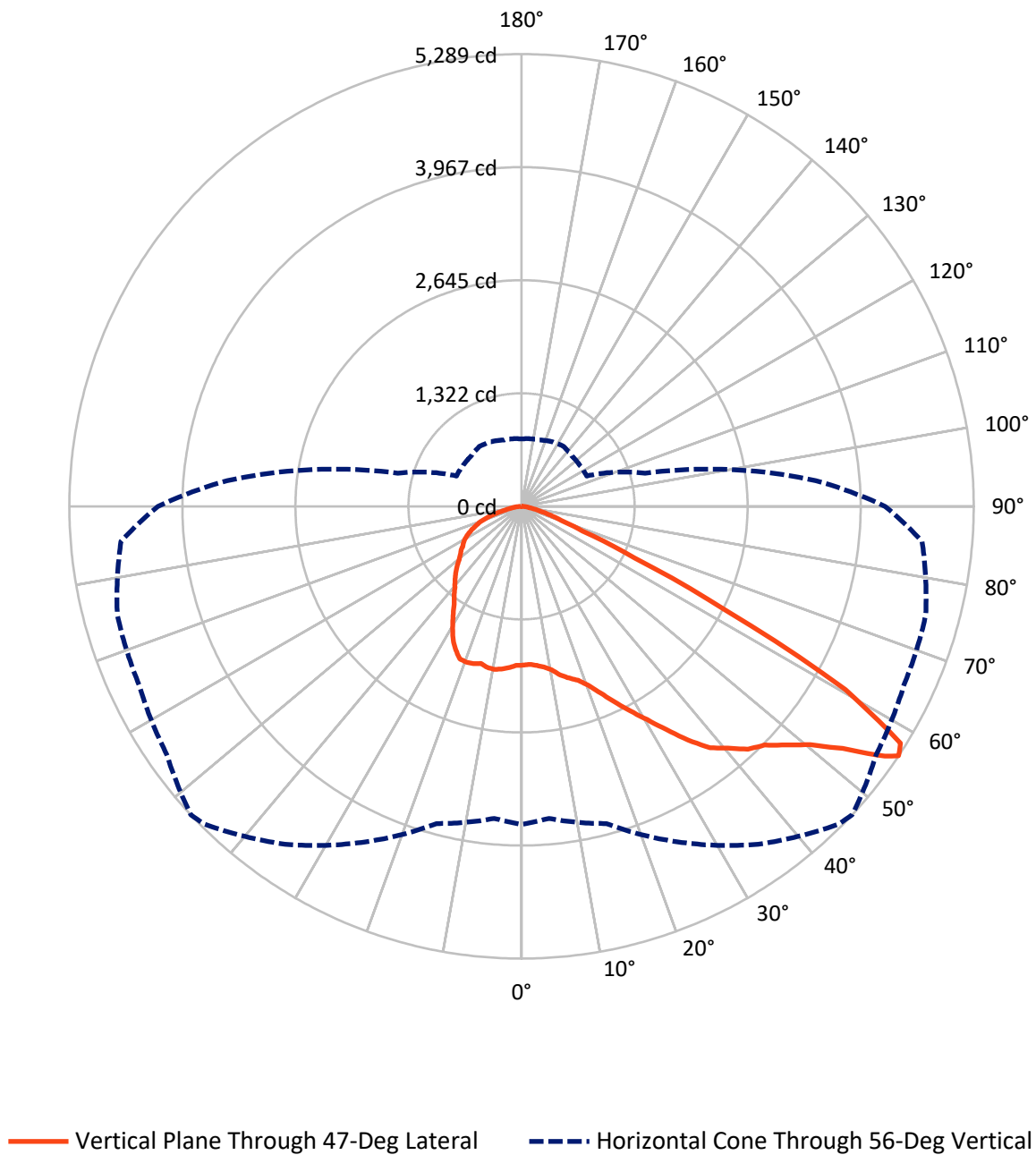
Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type II - Short - N/A

REPORT NUMBER: P528114

CATALOG NUMBER: GALN-SA3A-830-U-T3-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P528114

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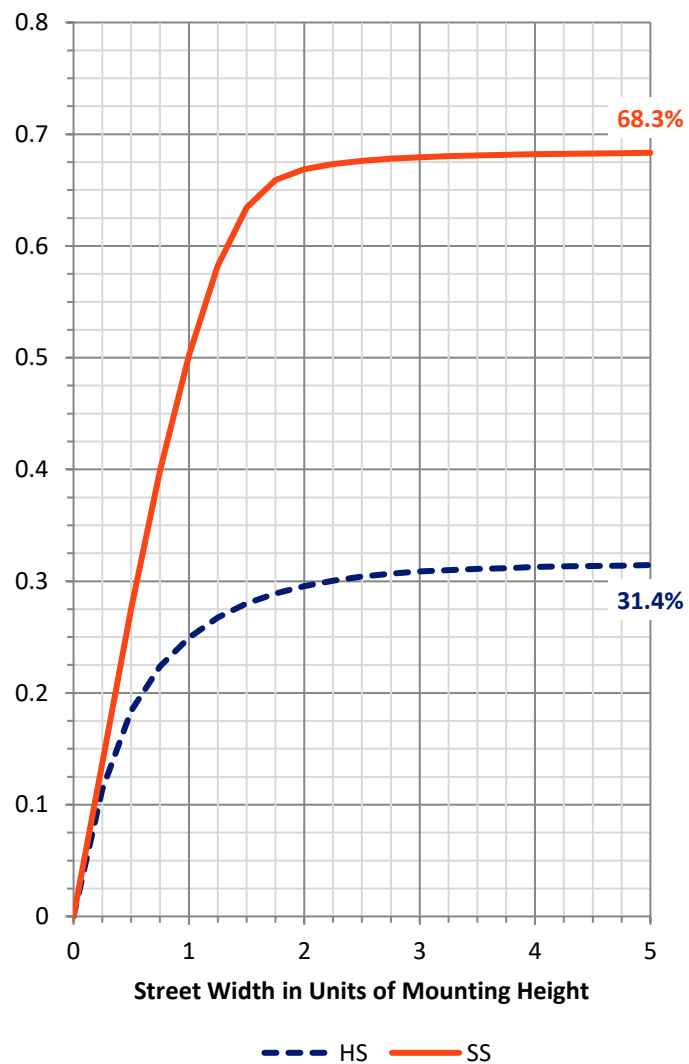
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2930.9	0.0	2930.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6318.1	0.0	6318.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	9249.0	0.0	9249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.0
10°-20°	571.0	6.2
20°-30°	1009.4	10.9
30°-40°	1516.2	16.4
40°-50°	2080.8	22.5
50°-60°	2479.0	26.8
60°-70°	1060.8	11.5
70°-80°	300.2	3.2
80°-90°	50.5	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°	9249.0	100.0
0°-180°	9249.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528114

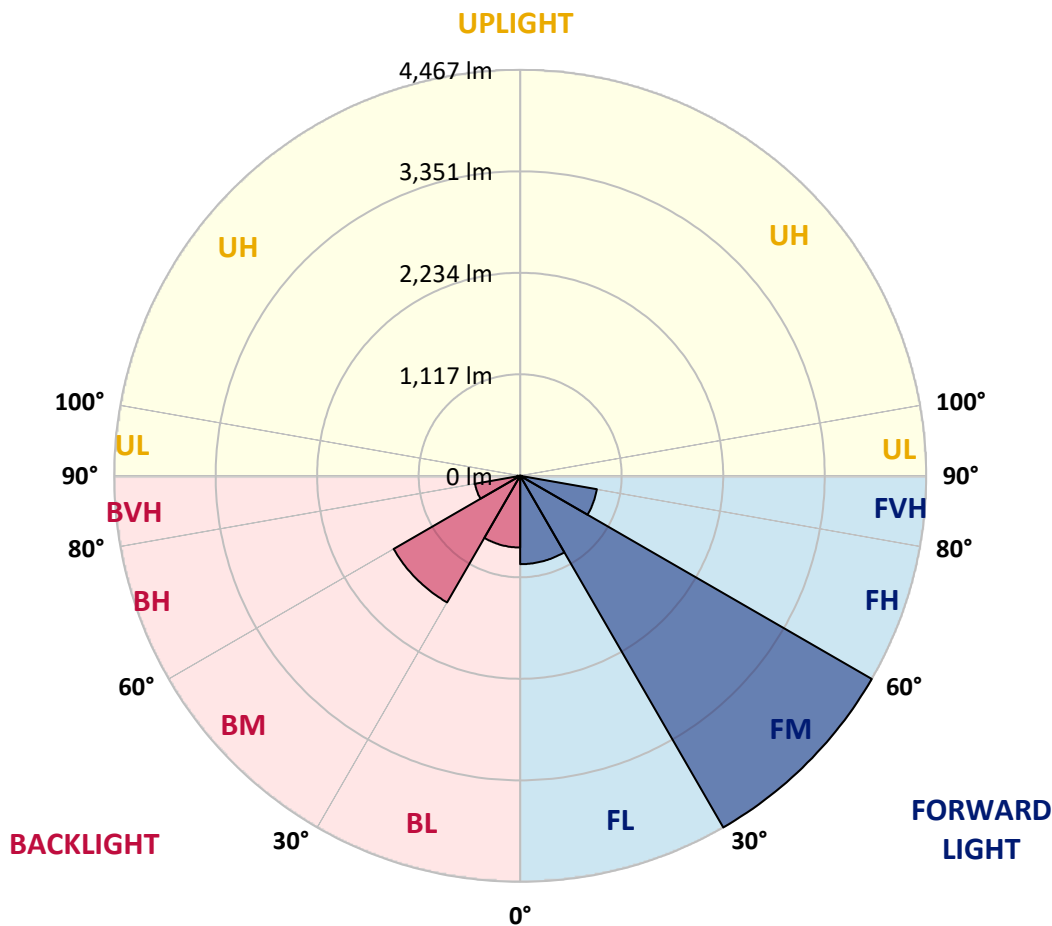
CATALOG NUMBER: GALN-SA3A-830-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	972.4	10.5			
FM	(30°-60°)	4467.5	48.3			
FH	(60°-80°)	856.8	9.3			G1/1800
FVH	(80°-90°)	21.4	0.2			G1/100
BL	(0°-30°)	789.1	8.5	B2/1000		
BM	(30°-60°)	1608.4	17.4	B2/2500		
BH	(60°-80°)	504.3	5.5	B2/1000		G2/1000
BVH	(80°-90°)	29.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P528114

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1850.8	1847.2	1844.9	1863.7	1856.7	1857.8	1850.8	1857.8	1862.6	1851.9	1867.3
5°	1847.2	1857.8	1848.4	1854.3	1869.6	1864.9	1869.6	1883.8	1880.3	1876.7	1872.0
7.5°	1880.3	1881.4	1888.5	1890.9	1895.6	1890.9	1897.9	1910.9	1907.4	1887.3	1889.7
10°	1927.4	1929.8	1931.0	1944.0	1952.2	1953.4	1945.1	1933.3	1932.2	1959.3	1940.4
12.5°	1981.7	1975.8	1990.0	1994.7	2004.1	2014.7	2025.3	2000.6	2015.9	2017.1	1994.7
15°	2060.7	2066.6	2050.1	2050.1	2053.7	2054.8	2084.3	2072.5	2070.2	2057.2	2066.6
17.5°	2178.7	2138.6	2137.4	2120.9	2118.5	2128.0	2138.6	2148.0	2179.9	2153.9	2103.2
20°	2264.8	2274.2	2240.0	2220.0	2223.5	2244.7	2234.1	2276.6	2299.0	2256.5	2207.0
22.5°	2417.0	2385.1	2393.4	2348.5	2352.1	2374.5	2373.3	2417.0	2429.9	2362.7	2290.8
25°	2519.6	2511.3	2518.4	2483.0	2487.7	2505.4	2533.7	2605.7	2584.5	2510.2	2343.8
27.5°	2669.4	2652.9	2647.0	2634.0	2629.3	2676.5	2709.5	2786.2	2770.8	2662.3	2438.2
30°	2822.7	2812.1	2818.0	2764.9	2783.8	2884.1	2893.5	2998.5	2991.4	2800.3	2543.2
32.5°	2928.9	2934.8	2945.4	2915.9	2999.7	3079.9	3111.7	3230.9	3236.8	3037.4	2746.1
35°	3099.9	3079.9	3085.8	3120.0	3158.9	3305.2	3357.1	3436.1	3485.7	3286.3	2940.7
37.5°	3207.3	3228.5	3203.7	3258.0	3359.5	3535.2	3582.4	3663.8	3715.7	3531.7	3206.1
40°	3374.8	3340.6	3358.3	3397.2	3501.0	3729.8	3716.9	3800.6	3817.1	3740.5	3453.8
42.5°	3555.3	3538.7	3514.0	3602.4	3689.7	3856.1	3882.0	3843.1	3926.8	3944.5	3807.7
45°	3771.1	3791.2	3794.7	3797.1	3873.8	4018.8	3983.5	3949.2	4046.0	4174.5	4027.1
47.5°	3971.7	3908.0	3954.0	4017.7	4126.2	4127.4	4168.6	4087.3	4189.9	4304.3	4225.3
50°	4038.9	4008.2	4069.6	4189.9	4357.4	4375.1	4379.8	4264.2	4317.3	4408.1	4293.7
52.5°	4012.9	4002.3	4159.2	4345.6	4590.9	4680.6	4704.2	4561.4	4590.9	4549.7	4444.7
55°	3889.1	3920.9	4079.0	4458.8	4835.1	5112.3	5157.1	4976.7	4789.1	4821.0	4705.4
56°	3719.2	3663.8	3840.7	4330.2	4824.5	5252.7	5289.2	5063.9	4936.6	4895.3	4703.0
57.5°	3155.4	3083.4	3315.8	3896.2	4556.7	5199.6	5226.7	5100.5	4911.8	4828.0	4359.7
60°	1847.2	1882.6	2177.5	2687.1	3515.2	4263.0	4353.8	4445.8	4319.6	3944.5	3245.0
62.5°	891.8	869.4	1080.5	1540.5	2142.1	2721.3	2694.2	2952.5	3094.0	2802.7	2048.9
65°	467.1	464.8	589.8	841.0	1177.2	1429.7	1454.4	1593.6	1788.2	1443.8	1040.4
67.5°	343.3	352.7	415.2	591.0	757.3	772.6	769.1	838.7	857.6	725.4	639.3
70°	268.9	273.7	319.7	449.4	563.8	504.9	494.2	502.5	557.9	581.5	553.2
72.5°	194.6	199.3	238.3	303.2	352.7	344.4	351.5	397.5	465.9	490.7	461.2
75°	129.8	133.3	154.5	185.2	208.8	225.3	238.3	291.4	355.1	369.2	355.1
77.5°	89.6	93.2	107.3	130.9	133.3	143.9	148.6	173.4	212.3	230.0	220.6
80°	50.7	50.7	57.8	67.2	82.6	96.7	99.1	119.1	136.8	148.6	151.0
82.5°	23.6	24.8	30.7	41.3	54.3	67.2	69.6	82.6	95.5	107.3	110.9
85°	11.8	13.0	17.7	24.8	33.0	40.1	38.9	40.1	42.5	40.1	41.3
87.5°	3.5	3.5	4.7	5.9	4.7	5.9	5.9	7.1	8.3	9.4	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P528114

CATALOG NUMBER: GALN-SA3A-830-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1868.5	1872.0	1848.4	1870.8	1862.6	1861.4	1877.9	1875.5	1881.4	1879.1	1864.9
5°	1869.6	1861.4	1886.2	1863.7	1874.4	1896.8	1881.4	1916.8	1899.1	1910.9	1885.0
7.5°	1906.2	1908.6	1903.8	1913.3	1908.6	1919.2	1910.9	1919.2	1905.0	1906.2	1929.8
10°	1938.1	1931.0	1939.2	1927.4	1935.7	1932.2	1913.3	1907.4	1912.1	1906.2	1921.5
12.5°	1997.0	1984.1	1978.2	1964.0	1954.6	1919.2	1889.7	1873.2	1895.6	1899.1	1892.1
15°	2057.2	2058.4	2031.2	1999.4	1940.4	1887.3	1894.4	1900.3	1900.3	1909.7	1892.1
17.5°	2094.9	2094.9	2070.2	2006.5	1946.3	1915.6	1908.6	1889.7	1873.2	1870.8	1869.6
20°	2161.0	2140.9	2084.3	2005.3	1944.0	1929.8	1876.7	1831.9	1797.7	1785.9	1784.7
22.5°	2236.5	2185.8	2106.7	2007.7	1940.4	1920.4	1821.3	1754.0	1692.7	1666.8	1670.3
25°	2306.1	2224.7	2119.7	1997.0	1927.4	1830.7	1719.8	1626.6	1562.9	1541.7	1531.1
27.5°	2354.4	2266.0	2119.7	2006.5	1879.1	1730.4	1617.2	1498.1	1442.6	1428.5	1430.8
30°	2419.3	2317.9	2156.3	1986.4	1782.3	1600.7	1465.0	1387.2	1354.2	1342.4	1350.6
32.5°	2571.5	2453.5	2207.0	1938.1	1667.9	1470.9	1361.2	1317.6	1269.2	1245.6	1237.4
35°	2736.6	2582.1	2256.5	1856.7	1539.4	1353.0	1284.6	1244.5	1186.7	1160.7	1165.4
37.5°	2970.2	2747.2	2260.1	1722.2	1400.2	1286.9	1224.4	1161.9	1114.7	1074.6	1062.8
40°	3285.1	2972.5	2251.8	1580.6	1288.1	1209.1	1163.1	1085.2	1032.1	1003.8	1009.7
42.5°	3562.3	3236.8	2217.6	1420.2	1186.7	1156.0	1104.1	1027.4	975.5	946.0	943.7
45°	3795.9	3431.4	2152.7	1283.4	1101.7	1097.0	1036.9	977.9	936.6	909.5	921.3
47.5°	4011.8	3588.3	2054.8	1146.6	1023.9	1033.3	975.5	938.9	913.0	888.2	887.0
50°	4089.6	3585.9	1968.7	1033.3	961.4	956.6	954.3	915.4	888.2	867.0	876.4
52.5°	4219.4	3626.0	1875.5	955.5	904.7	905.9	914.2	885.9	855.2	842.2	854.0
55°	4405.7	3631.9	1670.3	864.6	857.6	865.8	865.8	846.9	821.0	810.4	804.5
56°	4253.6	3456.2	1498.1	841.0	834.0	834.0	856.4	835.1	803.3	795.0	788.0
57.5°	3923.3	3028.0	1253.9	812.7	802.1	818.6	830.4	808.0	778.5	766.7	773.8
60°	2706.0	2048.9	942.5	751.4	751.4	778.5	788.0	754.9	742.0	740.8	731.3
62.5°	1579.5	1193.7	737.2	696.0	698.3	720.7	727.8	708.9	692.4	712.5	721.9
65°	837.5	712.5	632.3	637.0	638.2	655.8	686.5	685.3	684.2	690.1	691.2
67.5°	606.3	592.2	574.5	569.7	572.1	585.1	615.7	639.3	638.2	624.0	613.4
70°	540.2	520.2	509.6	510.8	501.3	516.7	541.4	556.8	529.6	513.1	506.0
72.5°	449.4	443.5	436.4	437.6	418.8	415.2	386.9	386.9	379.8	375.1	383.4
75°	343.3	340.9	344.4	338.5	318.5	297.3	280.7	265.4	241.8	232.4	227.7
77.5°	217.0	224.1	232.4	219.4	211.1	195.8	179.3	164.0	145.1	134.5	134.5
80°	147.4	153.3	159.2	156.9	147.4	133.3	120.3	103.8	90.8	82.6	81.4
82.5°	112.1	116.8	125.0	115.6	106.2	94.4	83.8	72.0	60.2	50.7	50.7
85°	40.1	46.0	50.7	55.4	59.0	60.2	51.9	42.5	34.2	27.1	26.0
87.5°	10.6	11.8	13.0	11.8	11.8	11.8	13.0	11.8	10.6	8.3	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

(END OF REPORT)