

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: P452014

Luminaire Tested: **GALN-SA2D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12335 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): 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

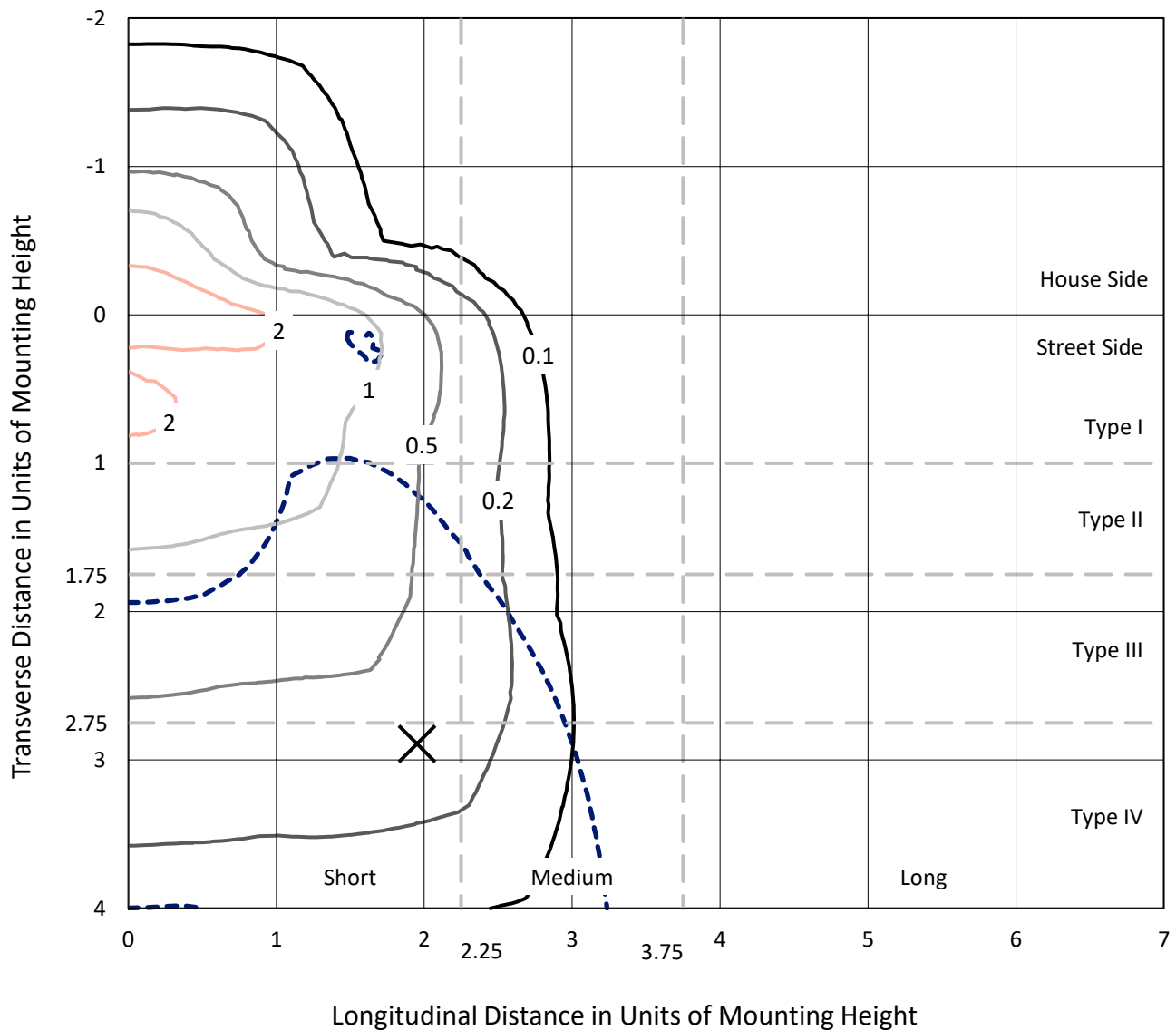


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

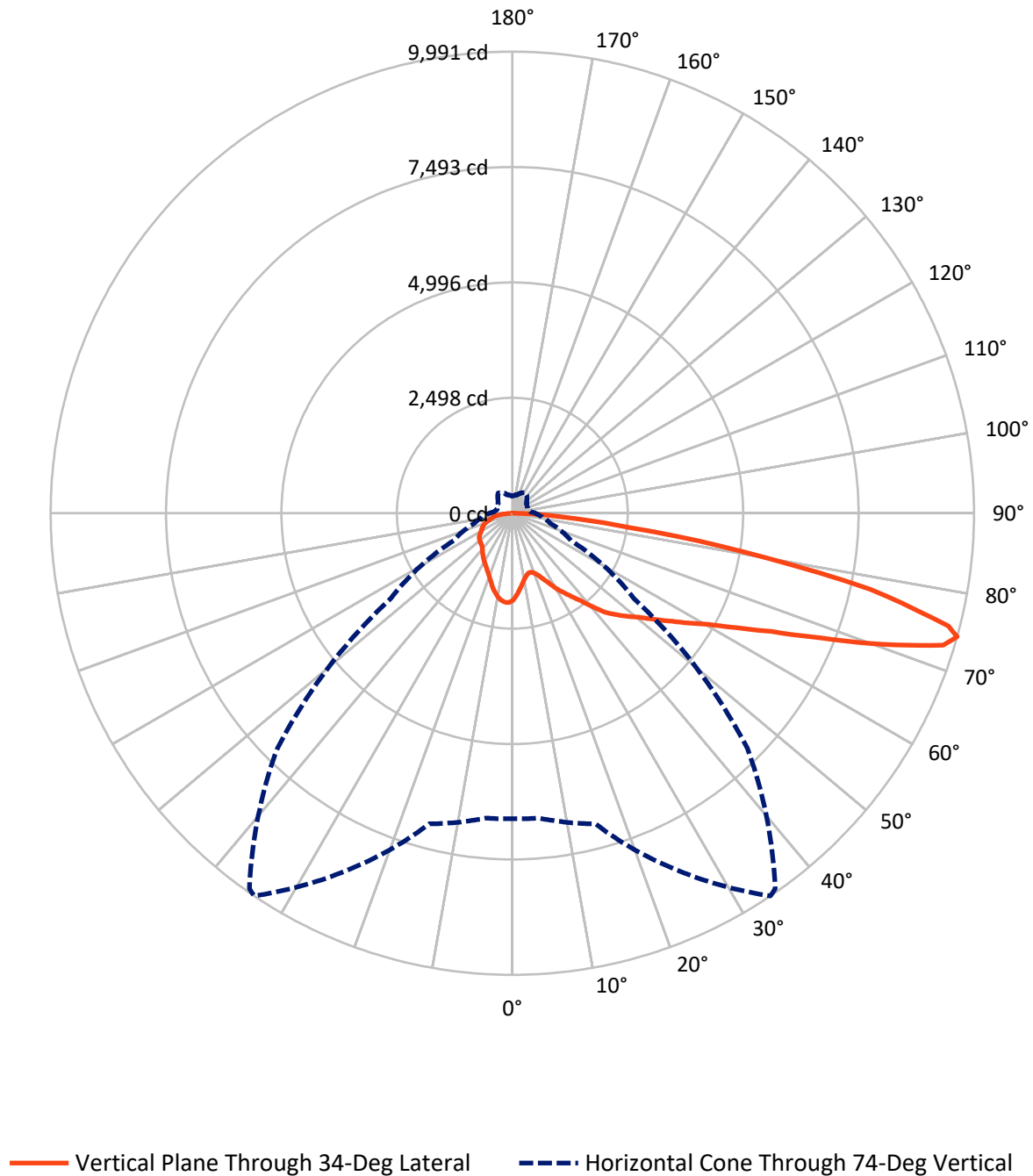


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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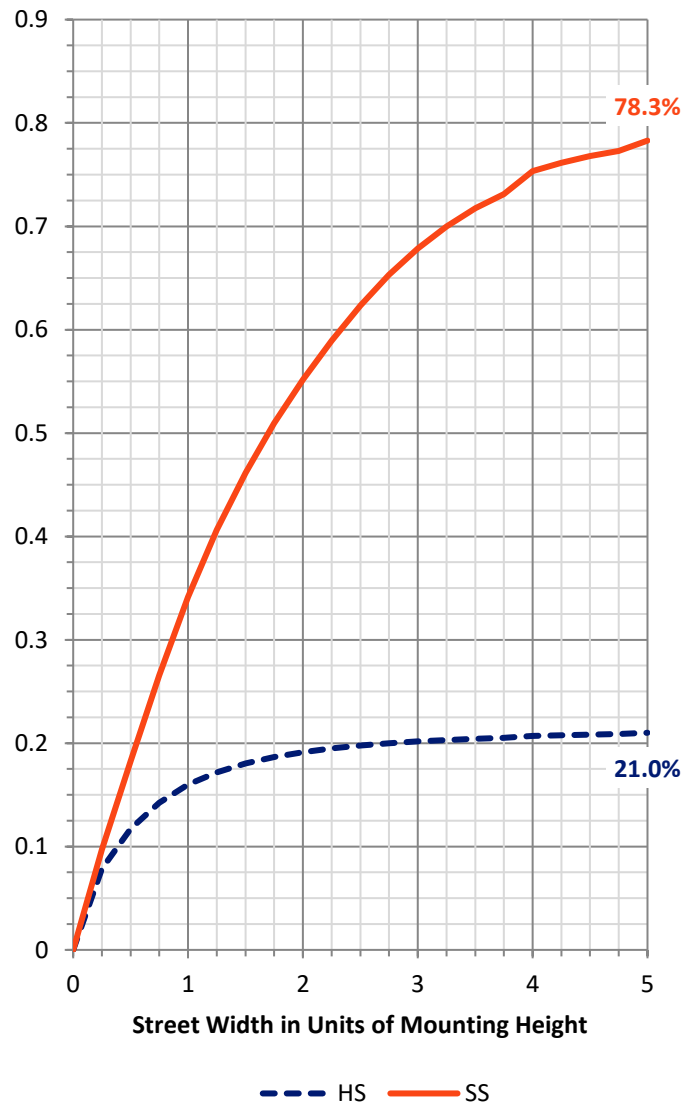
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2625.0	0.0	2625.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9710.0	0.0	9710.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	12335.0	0.0	12335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	1.4
10°-20°	468.9	3.8
20°-30°	773.0	6.3
30°-40°	1157.9	9.4
40°-50°	1683.3	13.6
50°-60°	2351.2	19.1
60°-70°	2943.6	23.9
70°-80°	2434.1	19.7
80°-90°	351.7	2.9
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°	12335.0	100.0
0°-180°	12335.0	100.0

Coefficient of Utilization



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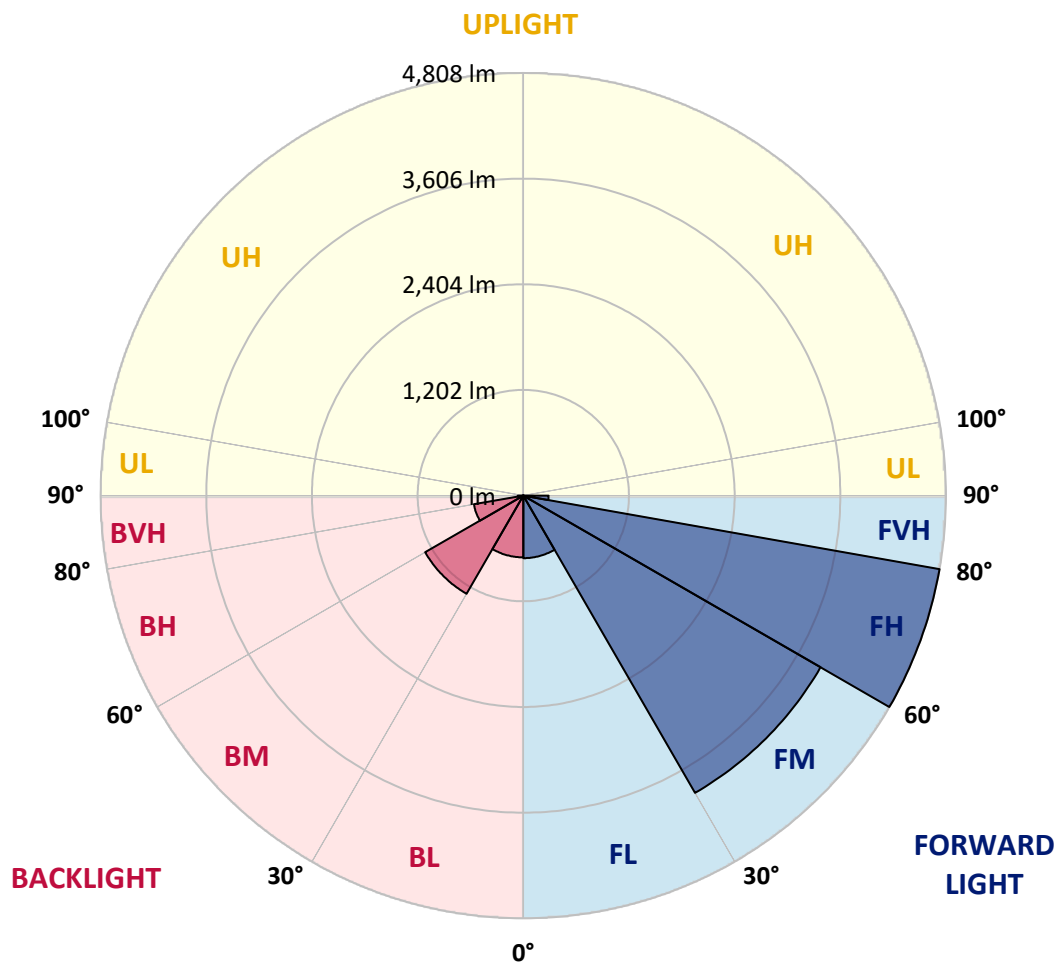
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	711.1	5.8			
FM	(30°-60°)	3903.3	31.6			
FH	(60°-80°)	4807.5	39.0			G2/5000
FVH	(80°-90°)	288.1	2.3			G3/500
BL	(0°-30°)	702.1	5.7	B2/1000		
BM	(30°-60°)	1289.1	10.5	B2/2500		
BH	(60°-80°)	570.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	63.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3
2.5°	1740.5	1749.4	1754.2	1771.2	1775.3	1780.8	1795.2	1814.3	1838.9	1860.8	1879.9
5°	1595.6	1609.3	1617.5	1632.5	1661.9	1664.6	1702.9	1746.6	1796.5	1843.0	1881.3
7.5°	1458.3	1473.3	1480.1	1507.5	1546.4	1552.6	1608.6	1677.6	1761.0	1831.4	1890.1
10°	1355.1	1362.6	1377.6	1398.1	1444.6	1448.7	1521.8	1614.1	1722.0	1825.9	1905.2
12.5°	1299.0	1303.1	1306.6	1328.4	1374.2	1380.4	1456.9	1561.5	1691.3	1830.0	1929.8
15°	1307.2	1308.6	1293.6	1297.7	1334.6	1343.5	1419.3	1526.6	1672.2	1840.3	1966.7
17.5°	1376.3	1371.5	1334.6	1315.4	1341.4	1345.5	1411.8	1512.9	1663.3	1859.4	2004.9
20°	1484.9	1478.1	1414.5	1372.2	1387.2	1390.6	1436.4	1523.2	1672.2	1890.8	2064.4
22.5°	1620.2	1617.5	1521.1	1469.9	1469.2	1469.2	1493.1	1560.1	1698.8	1933.9	2126.6
25°	1809.5	1795.2	1669.4	1603.1	1584.7	1583.3	1580.6	1620.9	1733.0	1979.7	2200.4
27.5°	2003.6	1979.0	1866.9	1765.1	1725.5	1720.7	1702.9	1707.0	1776.7	2031.6	2284.4
30°	2177.8	2162.1	2056.9	1944.1	1897.0	1886.0	1836.8	1814.3	1849.8	2125.2	2418.4
32.5°	2311.1	2301.5	2219.5	2117.0	2047.3	2045.3	1973.5	1955.1	1963.9	2238.7	2571.4
35°	2419.1	2422.5	2380.8	2292.0	2212.0	2200.4	2152.6	2129.3	2103.3	2402.7	2764.1
37.5°	2566.7	2574.2	2571.4	2494.9	2397.2	2399.9	2389.0	2350.7	2281.7	2585.8	2978.0
40°	2729.3	2734.8	2734.1	2704.7	2653.4	2656.2	2652.1	2608.3	2505.2	2818.8	3215.8
42.5°	2954.1	2928.2	2860.5	2889.9	2920.0	2932.9	2961.0	2919.3	2777.8	3067.6	3439.3
45°	3205.6	3156.4	3003.3	3017.0	3128.4	3153.0	3307.4	3250.0	3073.7	3353.2	3702.4
47.5°	3364.1	3315.6	3186.5	3183.7	3331.3	3355.2	3628.6	3607.4	3342.9	3661.4	4023.6
50°	3505.6	3498.7	3353.2	3388.0	3532.2	3567.8	3978.5	3958.6	3611.5	4024.9	4373.4
52.5°	3715.4	3660.0	3543.8	3615.6	3806.3	3852.7	4325.6	4267.5	3858.2	4346.1	4713.1
55°	3809.7	3796.7	3789.9	3852.0	4113.8	4147.2	4663.2	4529.9	4068.7	4618.1	4971.4
57.5°	4061.8	4037.9	4105.6	4147.9	4475.9	4527.2	5015.8	4803.9	4253.2	4834.0	5097.1
60°	4388.5	4375.5	4437.7	4514.2	4880.5	4958.4	5417.6	5037.7	4401.5	4942.7	5028.1
62.5°	4876.4	4875.0	4863.4	5027.4	5453.8	5525.6	5878.9	5265.2	4424.7	4861.3	4671.4
65°	5576.1	5551.5	5450.4	5629.4	6167.2	6251.3	6359.2	5392.3	4284.6	4443.8	3933.4
67.5°	6308.0	6306.6	6224.6	6457.0	7191.6	7278.4	6959.9	5364.3	3895.8	3599.9	2793.5
70°	6914.8	6885.4	6990.0	7609.1	8500.2	8600.6	7485.4	5034.2	3103.1	2377.4	1659.9
72.5°	7060.4	7061.7	7279.0	8497.4	9756.9	9772.6	7674.7	4080.3	2076.7	1311.3	830.3
74°	6612.1	6623.7	6960.6	8541.9	9991.2	9920.2	7190.9	3207.0	1404.3	856.2	598.6
75°	6035.3	5962.2	6449.5	8246.0	9748.0	9671.4	6624.4	2573.5	1071.5	684.0	524.1
77.5°	3226.8	3301.3	4052.9	6153.6	7919.3	7831.2	4491.7	1234.1	578.8	476.3	377.2
80°	1148.7	1266.9	1780.8	3219.9	5077.3	5104.6	2143.7	565.8	407.3	351.2	266.5
82.5°	468.8	481.8	764.7	1428.9	2578.3	2602.9	875.4	336.2	291.1	241.9	159.2
85°	183.1	188.6	338.3	642.3	1100.2	1171.9	302.7	177.7	179.0	138.7	81.3
87.5°	61.5	69.7	138.7	213.9	373.8	366.3	88.2	52.6	64.2	60.1	25.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3
2.5°	1889.5	1902.4	1911.3	1920.9	1929.8	1932.5	1930.5	1936.6	1937.3	1938.0	1938.7
5°	1900.4	1918.2	1935.2	1944.8	1948.9	1945.5	1933.9	1927.7	1922.3	1918.2	1919.5
7.5°	1915.4	1940.7	1956.4	1960.5	1949.6	1933.9	1905.2	1882.6	1868.3	1858.7	1858.0
10°	1938.7	1963.3	1976.2	1964.6	1934.6	1896.3	1851.2	1808.8	1776.7	1767.1	1766.5
12.5°	1968.0	1996.1	1995.4	1961.2	1908.6	1840.3	1767.1	1717.9	1674.2	1652.3	1661.2
15°	2006.3	2027.5	2007.7	1946.2	1862.8	1769.2	1679.0	1612.0	1562.8	1539.6	1541.0
17.5°	2050.7	2069.2	2016.6	1919.5	1798.6	1678.3	1573.8	1510.2	1471.3	1454.2	1452.8
20°	2106.1	2111.5	2016.6	1873.1	1715.9	1572.4	1472.6	1428.2	1406.3	1397.4	1400.2
22.5°	2165.5	2154.6	2005.6	1807.5	1607.2	1461.7	1394.7	1374.9	1364.0	1362.6	1364.0
25°	2232.5	2201.8	1983.1	1718.6	1493.8	1366.0	1327.1	1330.5	1332.5	1332.5	1337.3
27.5°	2314.5	2253.0	1945.5	1606.6	1361.2	1277.2	1266.2	1290.2	1301.1	1303.1	1306.6
30°	2422.5	2309.0	1883.3	1466.5	1248.5	1197.2	1216.4	1248.5	1260.8	1268.3	1266.9
32.5°	2550.9	2370.5	1799.3	1326.4	1157.6	1141.2	1164.4	1197.2	1210.9	1215.0	1209.5
35°	2702.0	2440.2	1688.6	1195.2	1078.3	1087.9	1115.2	1125.5	1137.8	1137.8	1140.5
37.5°	2864.6	2496.3	1553.3	1074.9	1016.8	1051.7	1071.5	1061.9	1056.5	1049.6	1053.0
40°	3030.0	2538.0	1377.6	956.0	955.3	1014.1	1019.6	992.2	970.4	963.5	960.1
42.5°	3174.2	2563.9	1219.1	863.8	897.2	977.2	981.3	937.6	902.7	882.2	875.4
45°	3344.3	2594.0	1064.0	787.2	843.3	947.8	958.1	899.3	848.0	805.0	794.1
47.5°	3577.3	2662.3	941.7	727.8	804.3	929.4	943.7	867.9	800.2	744.2	735.3
50°	3840.4	2755.9	846.7	687.4	774.2	913.0	930.7	835.7	755.8	693.6	686.8
52.5°	4081.6	2806.5	764.7	651.2	744.9	882.9	913.6	812.5	712.0	643.0	636.9
55°	4213.5	2724.5	684.0	615.7	704.5	843.9	889.7	780.4	669.7	616.4	607.5
57.5°	4231.3	2555.0	610.9	577.4	662.2	796.1	845.3	741.4	642.3	597.9	590.4
60°	4093.9	2302.2	554.2	546.0	619.1	742.1	795.4	707.3	614.3	577.4	569.9
62.5°	3752.3	2027.5	514.6	517.3	575.4	685.4	758.5	674.5	587.7	554.9	548.0
65°	3164.6	1673.5	476.3	487.9	536.4	641.0	725.0	647.1	561.0	537.8	531.6
67.5°	2198.3	1208.2	444.9	457.2	499.5	595.9	686.1	617.7	531.0	518.7	509.1
70°	1217.0	743.5	408.0	422.3	461.3	545.3	642.3	573.3	487.2	481.8	468.1
72.5°	639.6	473.6	366.3	382.0	409.3	480.4	575.4	524.8	444.2	420.9	403.2
74°	499.5	388.1	338.3	354.7	373.1	442.1	535.7	490.0	413.4	386.1	372.4
75°	435.3	345.8	314.3	335.5	351.9	416.2	505.0	465.4	396.3	370.4	358.1
77.5°	307.5	259.0	256.9	282.2	291.1	364.9	455.1	423.7	353.3	326.0	314.3
80°	215.9	194.1	203.6	219.4	231.7	322.5	422.3	366.3	289.7	257.6	253.5
82.5°	140.8	127.1	145.6	159.9	164.0	237.8	341.0	278.1	211.2	171.5	159.2
85°	64.9	63.6	83.4	81.3	80.6	116.2	202.3	162.6	121.6	90.9	85.4
87.5°	16.4	15.7	20.5	17.1	20.5	17.8	18.5	4.8	0.7	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

(END OF REPORT)