

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: P452246

Luminaire Tested: **GALN-SA3A-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452246
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-SA3A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 10824 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

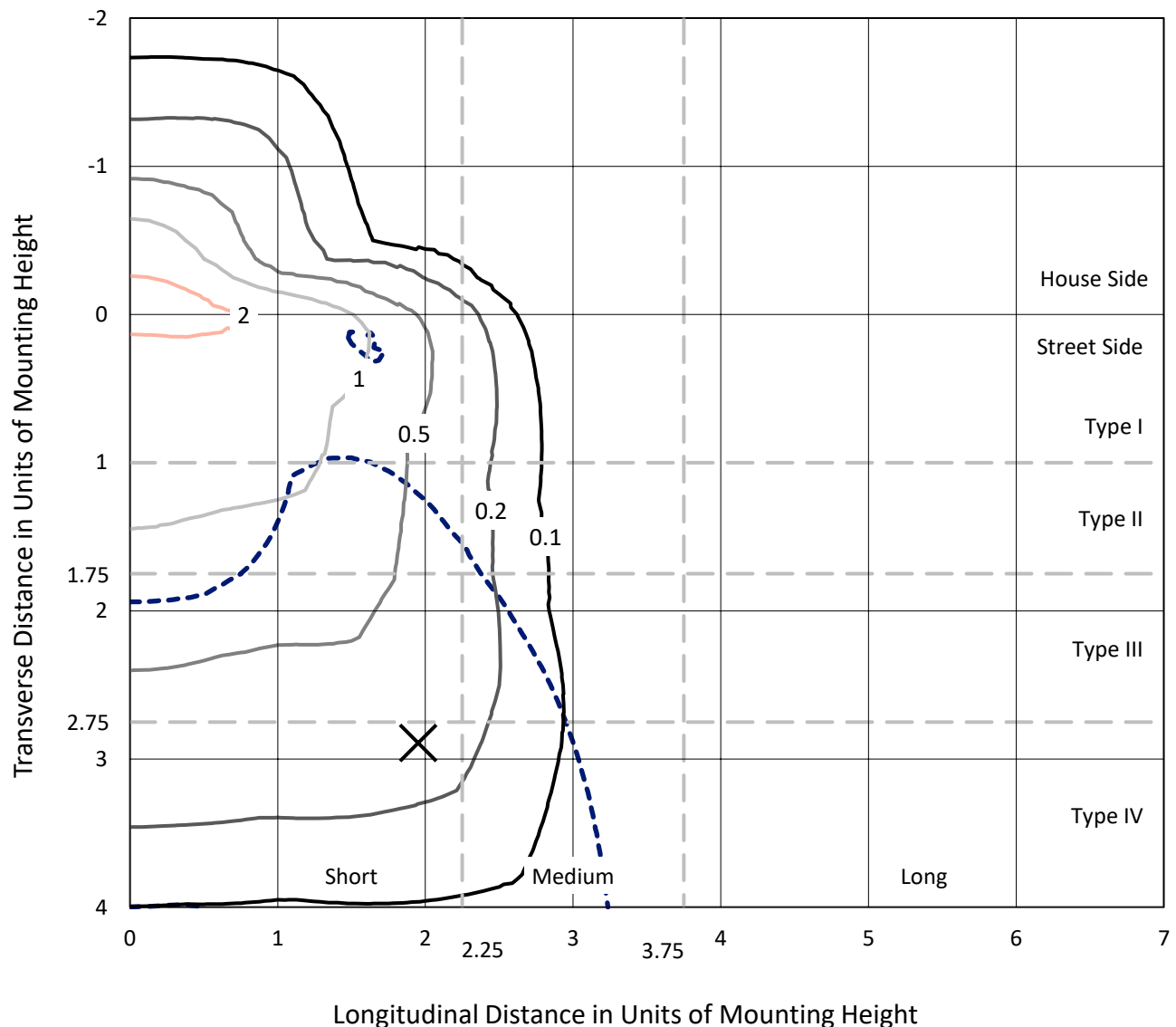


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

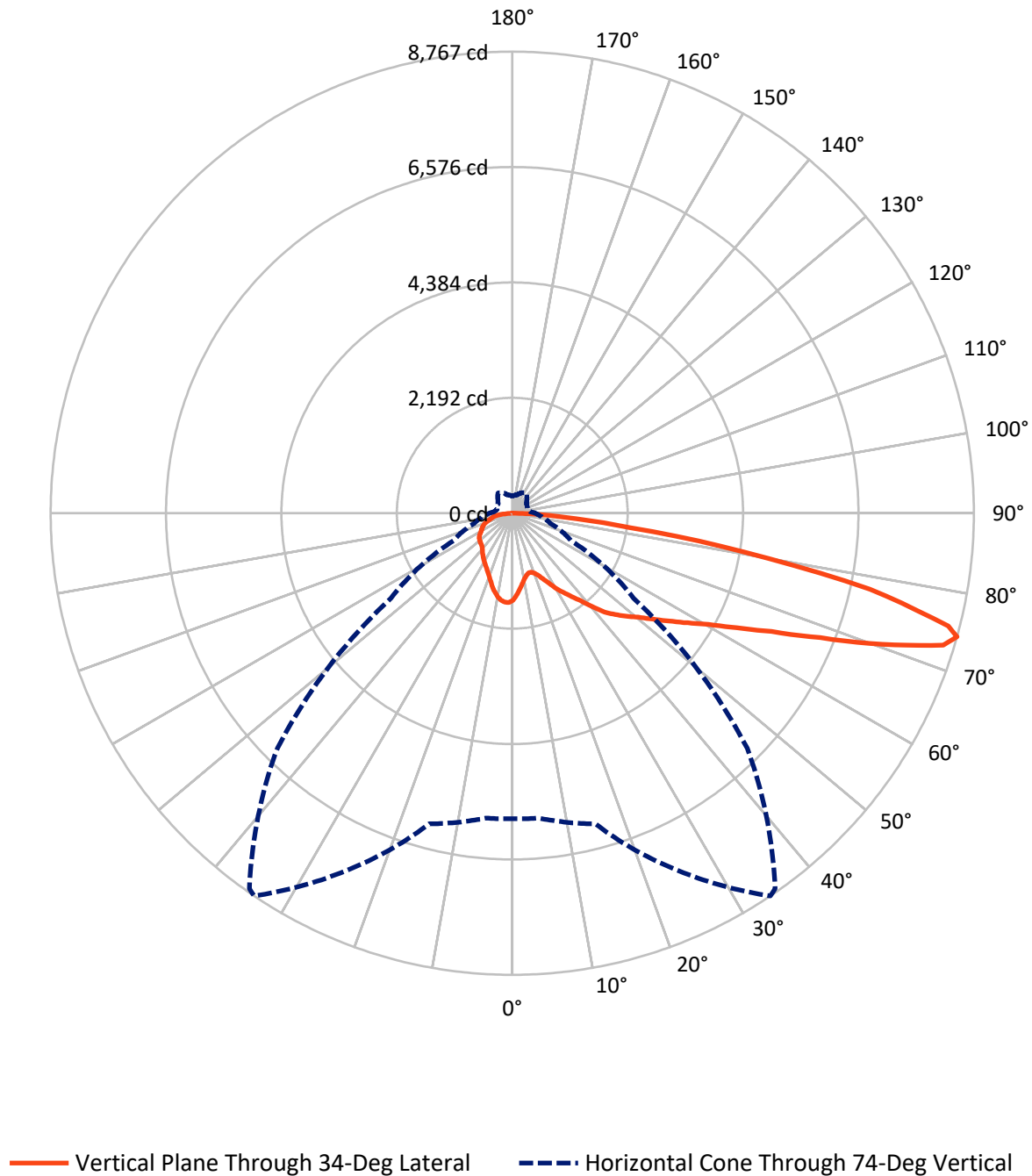


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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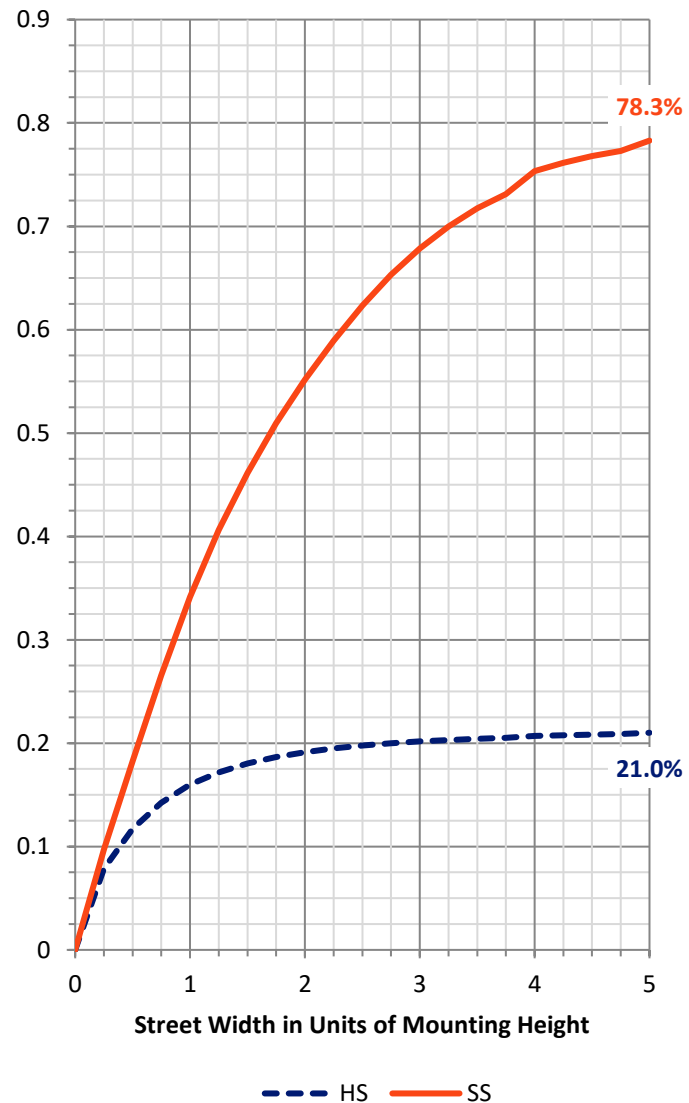
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2303.4	0.0	2303.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8520.6	0.0	8520.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	10824.0	0.0	10824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	1.4
10°-20°	411.4	3.8
20°-30°	678.3	6.3
30°-40°	1016.1	9.4
40°-50°	1477.1	13.6
50°-60°	2063.2	19.1
60°-70°	2583.0	23.9
70°-80°	2135.9	19.7
80°-90°	308.6	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°	10824.0	100.0
0°-180°	10824.0	100.0

Coefficient of Utilization



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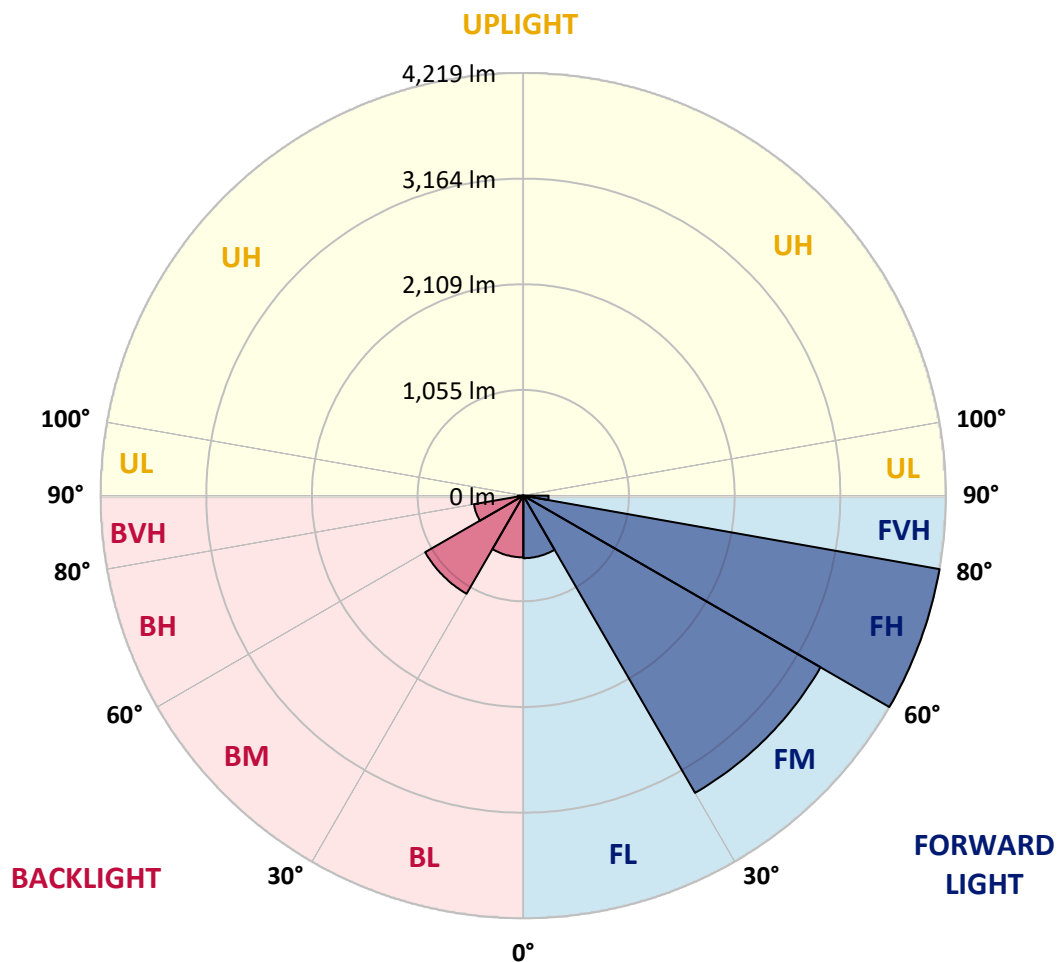
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.0	5.8			
FM	(30°-60°)	3425.2	31.6			
FH	(60°-80°)	4218.6	39.0			G2/5000
FVH	(80°-90°)	252.8	2.3			G3/500
BL	(0°-30°)	616.1	5.7	B2/1000		
BM	(30°-60°)	1131.2	10.5	B2/2500		
BH	(60°-80°)	500.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	55.8	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°	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6
2.5°	1527.3	1535.1	1539.3	1554.3	1557.9	1562.7	1575.3	1592.0	1613.6	1632.8	1649.6
5°	1400.2	1412.2	1419.4	1432.5	1458.3	1460.7	1494.3	1532.7	1576.5	1617.2	1650.8
7.5°	1279.6	1292.8	1298.8	1322.8	1357.0	1362.4	1411.6	1472.1	1545.3	1607.0	1658.6
10°	1189.1	1195.7	1208.9	1226.9	1267.6	1271.2	1335.4	1416.4	1511.1	1602.2	1671.8
12.5°	1139.9	1143.5	1146.5	1165.7	1205.9	1211.3	1278.4	1370.2	1484.1	1605.8	1693.4
15°	1147.1	1148.3	1135.1	1138.7	1171.1	1178.9	1245.5	1339.6	1467.3	1614.8	1725.8
17.5°	1207.7	1203.5	1171.1	1154.3	1177.1	1180.7	1238.9	1327.6	1459.5	1631.6	1759.3
20°	1303.0	1297.0	1241.3	1204.1	1217.3	1220.3	1260.4	1336.6	1467.3	1659.2	1811.5
22.5°	1421.7	1419.4	1334.8	1289.8	1289.2	1289.2	1310.2	1369.0	1490.7	1697.0	1866.1
25°	1587.8	1575.3	1464.9	1406.8	1390.6	1389.4	1387.0	1422.3	1520.7	1737.2	1930.8
27.5°	1758.1	1736.6	1638.2	1548.9	1514.1	1509.9	1494.3	1497.9	1559.1	1782.7	2004.6
30°	1911.1	1897.3	1804.9	1706.0	1664.6	1655.0	1611.8	1592.0	1623.2	1864.9	2122.1
32.5°	2028.0	2019.6	1947.6	1857.7	1796.5	1794.7	1731.8	1715.6	1723.4	1964.4	2256.4
35°	2122.7	2125.7	2089.1	2011.2	1941.0	1930.8	1888.9	1868.5	1845.7	2108.3	2425.5
37.5°	2252.3	2258.8	2256.4	2189.3	2103.5	2105.9	2096.3	2062.8	2002.2	2269.0	2613.2
40°	2395.0	2399.8	2399.2	2373.4	2328.4	2330.8	2327.2	2288.8	2198.3	2473.5	2821.9
42.5°	2592.2	2569.5	2510.1	2535.9	2562.3	2573.7	2598.2	2561.7	2437.5	2691.8	3018.0
45°	2812.9	2769.7	2635.4	2647.4	2745.2	2766.7	2902.3	2851.9	2697.2	2942.4	3248.9
47.5°	2952.0	2909.5	2796.1	2793.7	2923.3	2944.2	3184.1	3165.5	2933.4	3212.9	3530.7
50°	3076.2	3070.2	2942.4	2973.0	3099.5	3130.7	3491.1	3473.7	3169.1	3531.9	3837.7
52.5°	3260.2	3211.7	3109.7	3172.7	3340.0	3380.8	3795.7	3744.8	3385.6	3813.7	4135.7
55°	3343.0	3331.6	3325.6	3380.2	3609.8	3639.2	4092.0	3975.0	3570.3	4052.4	4362.4
57.5°	3564.3	3543.3	3602.6	3639.8	3927.6	3972.6	4401.4	4215.5	3732.2	4241.9	4472.7
60°	3850.9	3839.5	3894.1	3961.2	4282.6	4351.0	4754.0	4420.6	3862.3	4337.2	4412.2
62.5°	4279.0	4277.8	4267.6	4411.6	4785.7	4848.7	5158.7	4620.2	3882.7	4265.8	4099.1
65°	4893.1	4871.5	4782.7	4939.8	5411.8	5485.5	5580.3	4731.8	3759.7	3899.5	3451.5
67.5°	5535.3	5534.1	5462.1	5666.0	6310.6	6386.8	6107.3	4707.2	3418.6	3158.9	2451.3
70°	6067.8	6042.0	6133.7	6677.0	7458.9	7547.1	6568.5	4417.6	2723.0	2086.2	1456.5
72.5°	6195.5	6196.7	6387.4	7456.5	8561.7	8575.5	6734.6	3580.5	1822.3	1150.7	728.6
74°	5802.1	5812.3	6107.9	7495.5	8767.4	8705.0	6310.0	2814.1	1232.3	751.4	525.3
75°	5296.0	5231.9	5659.4	7235.9	8553.9	8486.7	5812.9	2258.2	940.2	600.2	459.9
77.5°	2831.5	2896.9	3556.5	5399.8	6949.2	6871.9	3941.4	1083.0	507.9	417.9	331.0
80°	1008.0	1111.7	1562.7	2825.5	4455.3	4479.3	1881.1	496.5	357.4	308.2	233.9
82.5°	411.4	422.7	671.0	1253.8	2262.4	2284.0	768.1	295.0	255.4	212.3	139.7
85°	160.7	165.5	296.8	563.7	965.4	1028.4	265.6	155.9	157.1	121.7	71.4
87.5°	54.0	61.2	121.7	187.7	328.0	321.4	77.4	46.2	56.4	52.8	22.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6
2.5°	1658.0	1669.4	1677.2	1685.6	1693.4	1695.8	1694.0	1699.4	1700.0	1700.6	1701.2
5°	1667.6	1683.2	1698.2	1706.6	1710.2	1707.2	1697.0	1691.6	1686.8	1683.2	1684.4
7.5°	1680.8	1703.0	1716.8	1720.4	1710.8	1697.0	1671.8	1652.0	1639.4	1631.0	1630.4
10°	1701.2	1722.8	1734.2	1724.0	1697.6	1664.0	1624.4	1587.2	1559.1	1550.7	1550.1
12.5°	1727.0	1751.6	1751.0	1721.0	1674.8	1614.8	1550.7	1507.5	1469.1	1449.9	1457.7
15°	1760.5	1779.1	1761.7	1707.8	1634.6	1552.5	1473.3	1414.6	1371.4	1351.0	1352.2
17.5°	1799.5	1815.7	1769.5	1684.4	1578.3	1472.7	1381.0	1325.2	1291.0	1276.0	1274.8
20°	1848.1	1852.9	1769.5	1643.6	1505.7	1379.8	1292.2	1253.2	1234.1	1226.3	1228.7
22.5°	1900.3	1890.7	1759.9	1586.1	1410.4	1282.6	1223.9	1206.5	1196.9	1195.7	1196.9
25°	1959.0	1932.0	1740.2	1508.1	1310.8	1198.7	1164.5	1167.5	1169.3	1169.3	1173.5
27.5°	2031.0	1977.0	1707.2	1409.8	1194.5	1120.7	1111.1	1132.1	1141.7	1143.5	1146.5
30°	2125.7	2026.2	1652.6	1286.8	1095.5	1050.6	1067.4	1095.5	1106.3	1112.9	1111.7
32.5°	2238.5	2080.2	1578.9	1163.9	1015.8	1001.4	1021.8	1050.6	1062.6	1066.2	1061.4
35°	2371.0	2141.3	1481.7	1048.8	946.2	954.6	978.6	987.6	998.4	998.4	1000.8
37.5°	2513.7	2190.5	1363.0	943.2	892.3	922.8	940.2	931.8	927.0	921.0	924.0
40°	2658.8	2227.1	1208.9	838.9	838.3	889.9	894.7	870.7	851.5	845.5	842.5
42.5°	2785.3	2249.9	1069.8	757.9	787.3	857.5	861.1	822.7	792.1	774.1	768.1
45°	2934.6	2276.2	933.6	690.8	740.0	831.7	840.7	789.1	744.2	706.4	696.8
47.5°	3139.1	2336.2	826.3	638.6	705.8	815.5	828.1	761.5	702.2	653.0	645.2
50°	3370.0	2418.4	743.0	603.2	679.4	801.1	816.7	733.4	663.2	608.6	602.6
52.5°	3581.7	2462.7	671.0	571.5	653.6	774.7	801.7	713.0	624.8	564.3	558.9
55°	3697.4	2390.8	600.2	540.3	618.2	740.6	780.7	684.8	587.6	540.9	533.1
57.5°	3713.0	2242.1	536.1	506.7	581.1	698.6	741.8	650.6	563.7	524.7	518.1
60°	3592.4	2020.2	486.3	479.1	543.3	651.2	698.0	620.6	539.1	506.7	500.1
62.5°	3292.6	1779.1	451.5	453.9	504.9	601.4	665.6	591.8	515.7	486.9	480.9
65°	2776.9	1468.5	417.9	428.1	470.7	562.5	636.2	567.9	492.3	471.9	466.5
67.5°	1929.0	1060.2	390.4	401.2	438.3	522.9	602.0	542.1	465.9	455.1	446.7
70°	1068.0	652.4	358.0	370.6	404.8	478.5	563.7	503.1	427.5	422.7	410.8
72.5°	561.3	415.6	321.4	335.2	359.2	421.5	504.9	460.5	389.8	369.4	353.8
74°	438.3	340.6	296.8	311.2	327.4	388.0	470.1	429.9	362.8	338.8	326.8
75°	382.0	303.4	275.8	294.4	308.8	365.2	443.1	408.4	347.8	325.0	314.2
77.5°	269.8	227.3	225.5	247.7	255.4	320.2	399.4	371.8	310.0	286.0	275.8
80°	189.5	170.3	178.7	192.5	203.3	283.0	370.6	321.4	254.2	226.1	222.5
82.5°	123.5	111.5	127.7	140.3	143.9	208.7	299.2	244.1	185.3	150.5	139.7
85°	57.0	55.8	73.2	71.4	70.8	101.9	177.5	142.7	106.7	79.8	75.0
87.5°	14.4	13.8	18.0	15.0	18.0	15.6	16.2	4.2	0.6	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)