

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: P522702

Luminaire Tested: **GALN-SA3B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13508 lumens
Efficiency: N/A
Efficacy: 111.6 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): 121
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

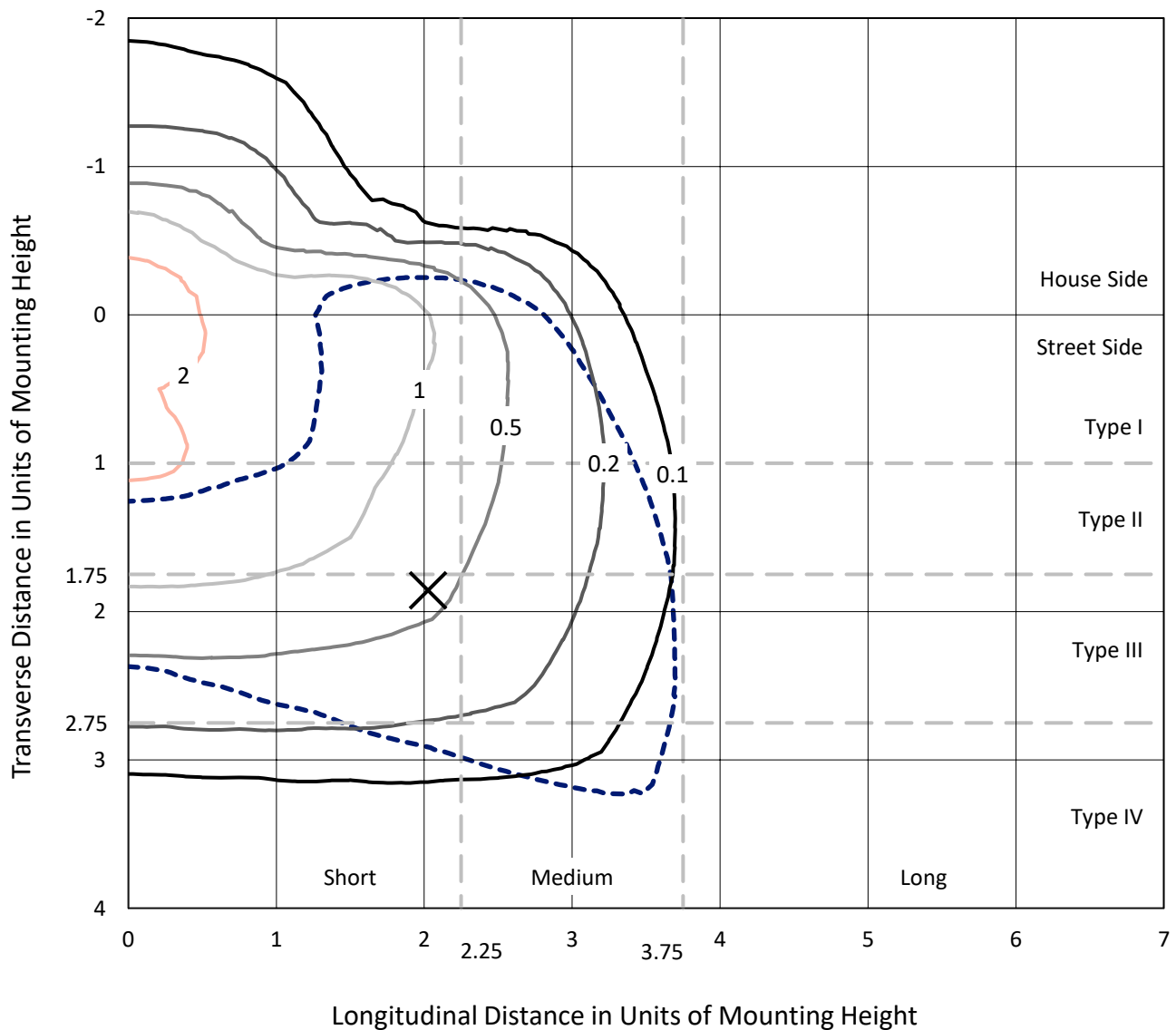


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

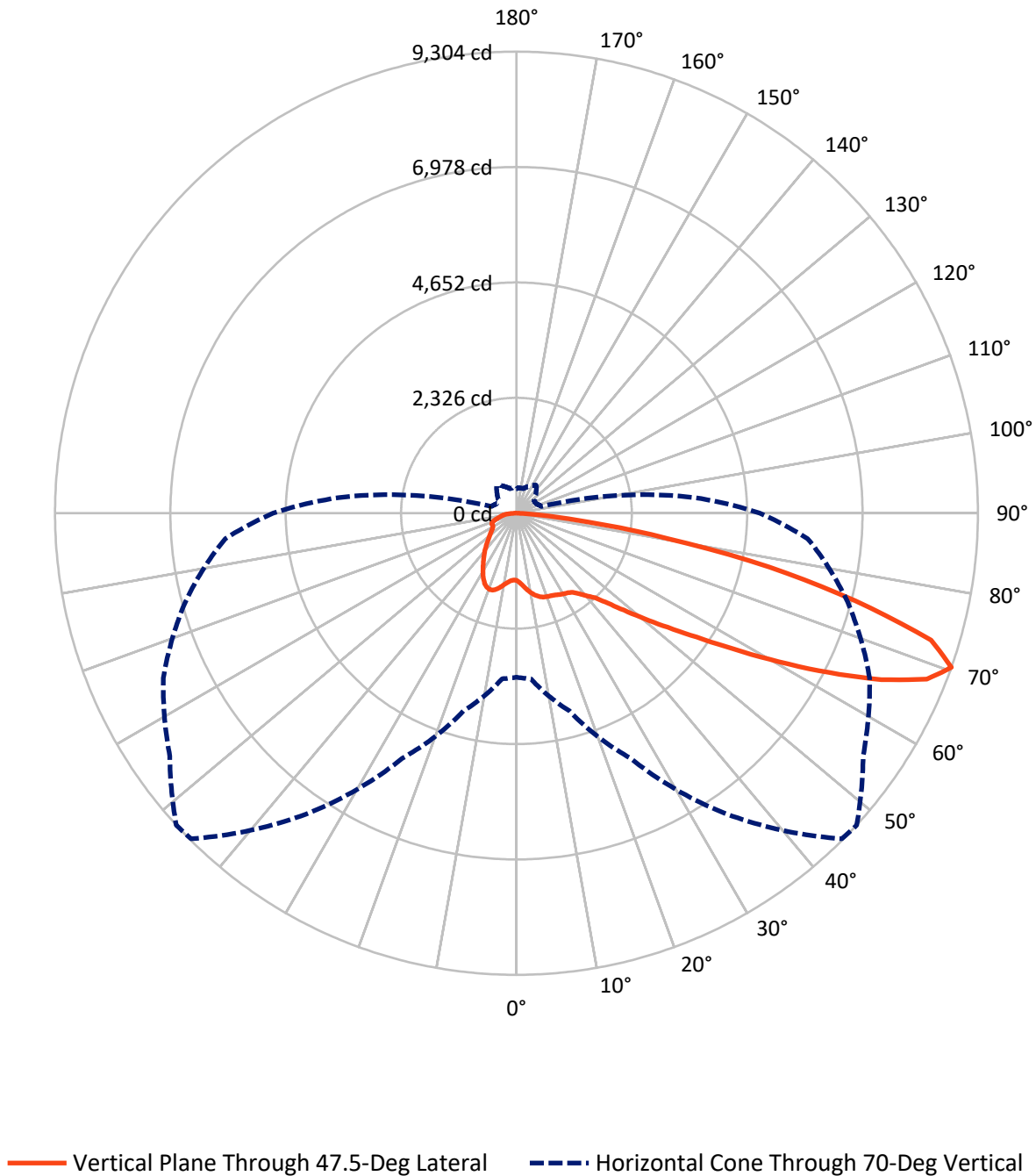


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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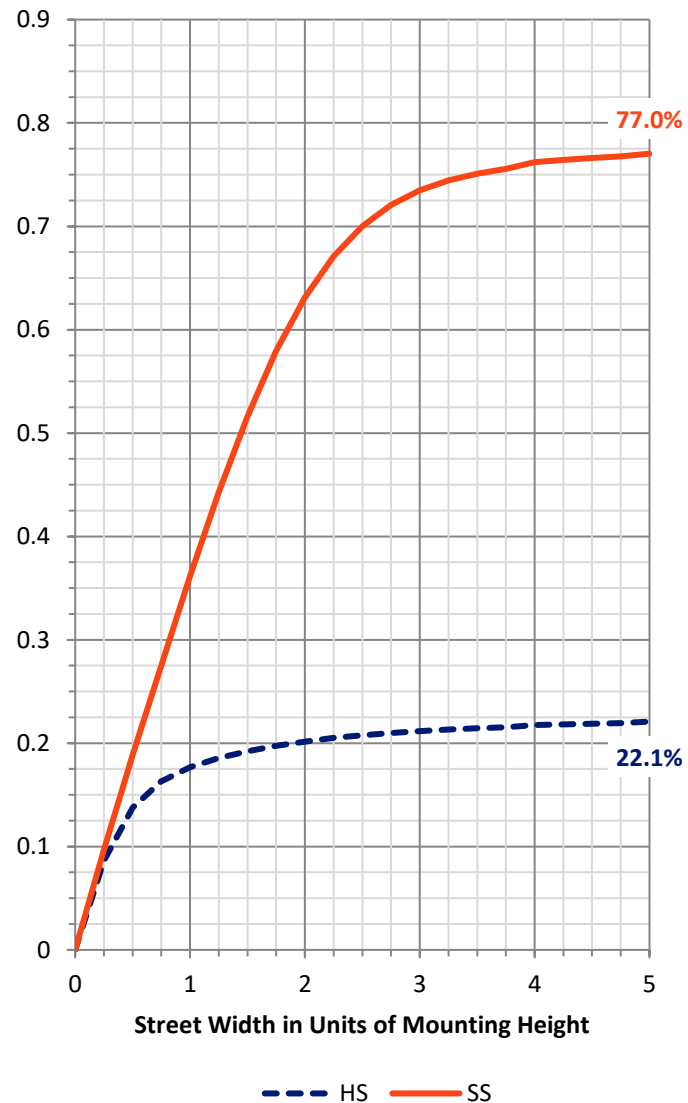
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3058.5	0.0	3058.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10449.5	0.0	10449.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	13508.0	0.0	13508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	1.0
10°-20°	467.3	3.5
20°-30°	777.1	5.8
30°-40°	1101.4	8.2
40°-50°	1625.9	12.0
50°-60°	2816.2	20.8
60°-70°	3978.0	29.4
70°-80°	2286.8	16.9
80°-90°	315.5	2.3
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°	13508.0	100.0
0°-180°	13508.0	100.0

Coefficient of Utilization



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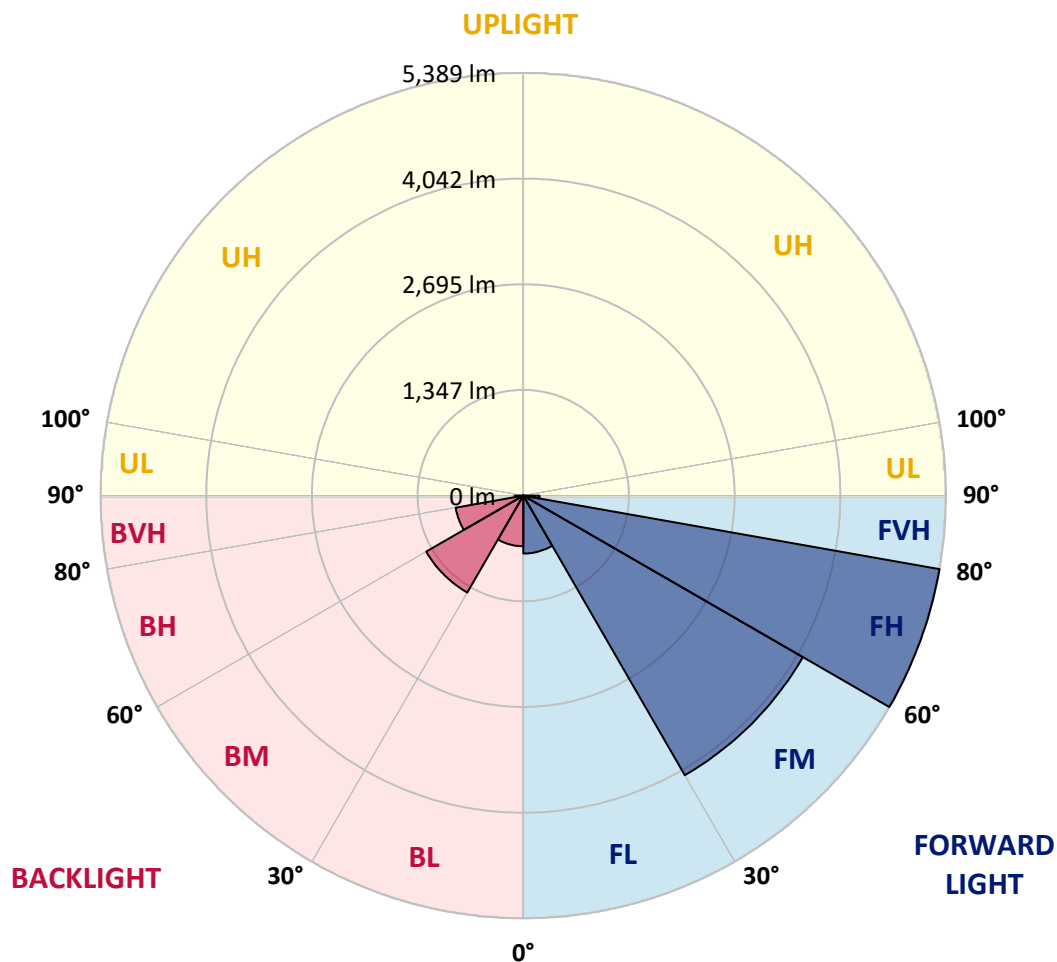
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.7	5.5			
FM	(30°-60°)	4115.6	30.5			
FH	(60°-80°)	5389.1	39.9			G3/7500
FVH	(80°-90°)	206.1	1.5			G2/225
BL	(0°-30°)	645.5	4.8	B2/1000		
BM	(30°-60°)	1427.9	10.6	B2/2500		
BH	(60°-80°)	875.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	109.4	0.8			G2/225
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°	35°	45°	47.5°	55°	65°	75°	85°
0°	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0
2.5°	1443.5	1438.4	1437.7	1426.9	1421.1	1410.3	1405.9	1395.8	1383.5	1371.2	1359.7
5°	1557.0	1557.0	1551.9	1536.7	1512.9	1488.3	1477.5	1458.0	1423.3	1395.1	1371.2
7.5°	1673.4	1674.8	1664.7	1642.3	1608.3	1568.6	1558.4	1529.5	1480.4	1439.2	1403.7
10°	1773.8	1773.8	1760.1	1729.7	1687.1	1643.7	1633.6	1601.1	1546.1	1494.8	1448.6
12.5°	1850.5	1850.5	1832.4	1792.6	1746.4	1707.3	1695.8	1664.7	1613.4	1556.3	1497.7
15°	1900.3	1896.7	1876.5	1831.7	1786.9	1752.9	1744.9	1718.9	1671.9	1614.1	1548.3
17.5°	1902.5	1901.1	1881.5	1844.0	1804.9	1781.8	1776.7	1759.4	1722.5	1667.6	1598.2
20°	1860.6	1863.5	1850.5	1823.7	1804.9	1794.8	1792.6	1786.9	1760.8	1709.5	1640.1
22.5°	1815.8	1820.8	1808.5	1794.1	1792.6	1802.8	1804.2	1805.6	1789.0	1739.1	1675.5
25°	1804.9	1808.5	1796.2	1783.2	1791.2	1817.9	1823.7	1829.5	1816.5	1774.6	1717.5
27.5°	1859.9	1857.0	1833.1	1804.9	1810.0	1846.1	1854.1	1860.6	1854.1	1817.9	1769.5
30°	2015.3	2005.9	1958.2	1875.8	1849.7	1875.0	1883.0	1901.1	1901.1	1874.3	1825.9
32.5°	2275.5	2257.4	2170.0	2008.0	1917.7	1902.5	1910.5	1940.1	1955.3	1934.3	1881.5
35°	2591.4	2572.6	2447.5	2229.9	2042.0	1957.4	1955.3	1988.5	2029.0	1982.0	1913.3
37.5°	2908.7	2889.2	2738.8	2494.5	2223.4	2073.1	2060.1	2071.6	2089.0	2003.0	1957.4
40°	3226.0	3202.9	3071.3	2790.1	2445.4	2226.3	2192.4	2140.3	2133.1	2071.6	2042.7
42.5°	3540.5	3519.5	3453.0	3121.9	2711.4	2376.0	2323.9	2234.3	2261.8	2224.9	2199.6
45°	3857.8	3859.2	3788.4	3494.2	3032.3	2652.1	2582.0	2441.7	2506.8	2493.1	2507.5
47.5°	4139.0	4135.3	4110.0	3855.6	3430.6	3007.7	2917.4	2754.7	2866.0	2916.6	3027.2
50°	4411.5	4409.3	4410.7	4265.5	3893.2	3430.6	3330.8	3160.2	3411.1	3586.7	3784.8
52.5°	4801.8	4814.1	4726.6	4688.3	4455.6	3930.1	3820.2	3643.8	4055.1	4332.0	4718.7
55°	5193.6	5183.5	5114.8	5154.5	5044.0	4521.3	4406.4	4266.2	4772.2	5075.0	5656.2
57.5°	5424.2	5427.8	5497.9	5692.3	5770.4	5258.6	5154.5	5046.1	5578.1	5792.8	6490.3
60°	5631.6	5648.2	5849.9	6217.1	6428.9	6164.3	6071.8	5966.3	6317.6	6402.9	7214.6
62.5°	5696.7	5748.0	6100.0	6649.4	7070.8	7186.4	7071.5	6838.8	7021.6	6988.4	7705.4
65°	5372.1	5442.2	6073.3	6811.3	7644.0	8156.5	8083.5	7651.2	7621.6	7421.4	7785.7
67.5°	4517.7	4587.8	5398.1	6471.6	7881.1	8996.4	8923.4	8243.9	7985.9	7461.8	7178.5
70°	3305.5	3349.6	4124.5	5448.7	7404.7	9278.3	9303.6	8533.1	7855.8	6911.8	5894.0
72.5°	1904.7	2002.3	2545.1	3833.2	6049.4	8565.6	8741.3	7931.7	7033.2	5766.1	4120.9
75°	819.0	821.1	1176.8	2114.3	4097.0	6885.0	7054.9	6574.9	5523.2	3987.2	2200.3
77.5°	389.6	396.8	517.6	944.0	2255.2	4757.0	5215.3	4644.9	3532.5	1915.5	831.3
80°	253.0	258.1	316.6	468.4	1105.9	2758.3	3077.8	2679.6	1558.4	684.5	358.5
82.5°	153.2	154.7	211.8	286.2	608.6	1249.1	1472.4	1163.0	665.0	409.8	211.1
85°	93.2	94.0	128.7	177.1	369.4	431.5	443.1	439.5	390.3	268.2	112.8
87.5°	44.8	46.3	66.5	83.8	145.3	133.7	126.5	146.7	184.3	144.6	48.4
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°	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0	1356.0
2.5°	1354.6	1352.4	1347.4	1345.2	1343.8	1344.5	1343.8	1343.8	1344.5	1344.5	1344.5
5°	1361.1	1357.5	1349.5	1349.5	1353.9	1364.0	1373.4	1380.6	1388.6	1387.8	1387.8
7.5°	1389.3	1382.8	1373.4	1376.3	1387.1	1403.0	1419.7	1435.6	1451.5	1452.9	1452.2
10°	1430.5	1424.0	1413.9	1417.5	1434.8	1458.7	1479.6	1502.8	1520.1	1525.2	1523.7
12.5°	1477.5	1464.5	1455.8	1465.9	1493.4	1525.2	1545.4	1562.8	1575.1	1582.3	1579.4
15°	1525.2	1512.9	1502.8	1523.7	1557.0	1586.6	1596.7	1599.6	1601.8	1609.0	1607.6
17.5°	1571.4	1554.8	1551.2	1578.7	1610.5	1623.5	1617.7	1605.4	1596.0	1601.8	1601.1
20°	1612.6	1599.6	1598.2	1625.7	1637.9	1625.7	1601.1	1579.4	1562.8	1564.2	1563.5
22.5°	1651.7	1641.6	1643.0	1654.6	1635.1	1593.1	1552.7	1523.0	1504.9	1508.6	1510.7
25°	1695.1	1684.9	1688.5	1669.8	1605.4	1532.4	1473.9	1448.6	1441.3	1448.6	1453.6
27.5°	1751.4	1744.9	1742.8	1670.5	1552.7	1442.8	1376.3	1366.9	1373.4	1389.3	1397.2
30°	1812.2	1812.2	1800.6	1658.2	1480.4	1335.1	1277.3	1278.7	1301.1	1323.5	1331.5
32.5°	1870.7	1883.0	1846.8	1624.9	1387.1	1230.3	1186.2	1187.6	1207.1	1234.6	1241.8
35°	1919.1	1954.5	1886.6	1564.2	1277.3	1142.1	1108.8	1089.3	1090.0	1111.0	1116.8
37.5°	1985.6	2051.4	1909.7	1473.9	1160.2	1066.9	1029.3	995.3	972.9	964.3	964.3
40°	2101.3	2198.1	1915.5	1340.1	1049.6	995.3	941.9	901.4	858.0	819.0	811.7
42.5°	2297.2	2419.3	1904.0	1186.2	949.8	916.6	864.5	814.6	754.6	699.7	695.4
45°	2644.1	2707.0	1872.9	1026.4	860.9	840.7	790.1	735.8	672.2	623.1	619.5
47.5°	3200.0	3111.1	1831.7	884.8	779.9	774.2	735.1	672.2	608.6	574.7	571.0
50°	4011.7	3747.2	1825.9	782.1	714.9	717.8	686.0	628.1	572.5	544.3	540.0
52.5°	4989.0	4515.6	1864.2	709.8	657.8	668.6	652.7	599.2	550.1	526.2	521.9
55°	5937.4	5206.6	1887.3	653.4	604.3	624.5	626.7	581.9	537.1	513.2	510.3
57.5°	6707.2	5727.0	1784.7	602.1	558.0	589.1	605.0	571.8	530.6	512.5	509.6
60°	7242.8	5972.8	1492.7	556.6	524.1	560.9	597.1	572.5	546.5	548.6	550.1
62.5°	7413.4	5863.6	1119.7	522.6	500.9	551.5	610.1	602.1	575.4	592.0	594.9
65°	7130.8	5412.6	811.7	495.9	480.7	558.0	649.1	623.8	565.3	577.5	577.5
67.5°	6184.6	4663.0	631.8	471.3	457.6	570.3	688.1	621.6	541.4	555.9	542.8
70°	4905.9	3607.0	526.2	443.8	433.0	552.2	691.8	599.2	513.2	516.1	491.5
72.5°	3255.7	2371.6	452.5	417.8	395.4	496.6	662.1	570.3	485.7	469.1	444.5
75°	1595.3	1182.6	394.7	385.3	346.2	432.3	621.6	542.8	456.1	430.1	416.4
77.5°	618.0	503.1	336.8	344.1	301.4	380.9	568.1	503.8	417.1	381.7	370.8
80°	300.0	285.5	276.1	287.0	247.9	324.6	519.0	469.8	380.9	341.9	326.0
82.5°	186.5	176.4	211.8	223.4	190.8	296.4	492.3	440.9	335.4	283.4	270.3
85°	94.7	101.2	141.7	152.5	136.6	235.6	405.5	331.1	242.2	200.9	202.4
87.5°	36.1	48.4	74.5	80.2	73.0	124.3	223.4	193.0	155.4	105.5	97.6
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)