

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: STREETWORKS

Report Number: P319216

Luminaire Tested: **GAN-SA2D-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12527 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

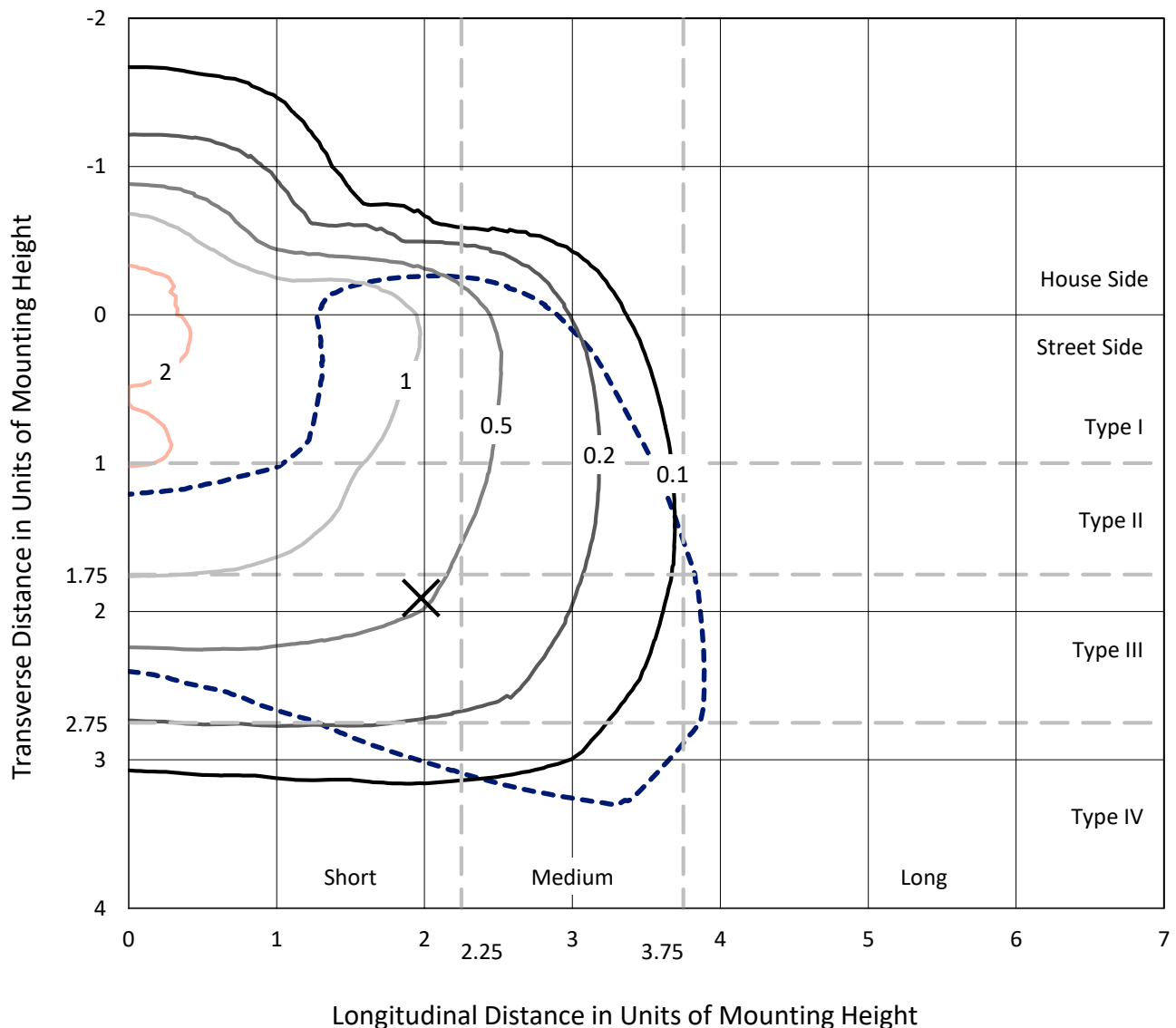
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

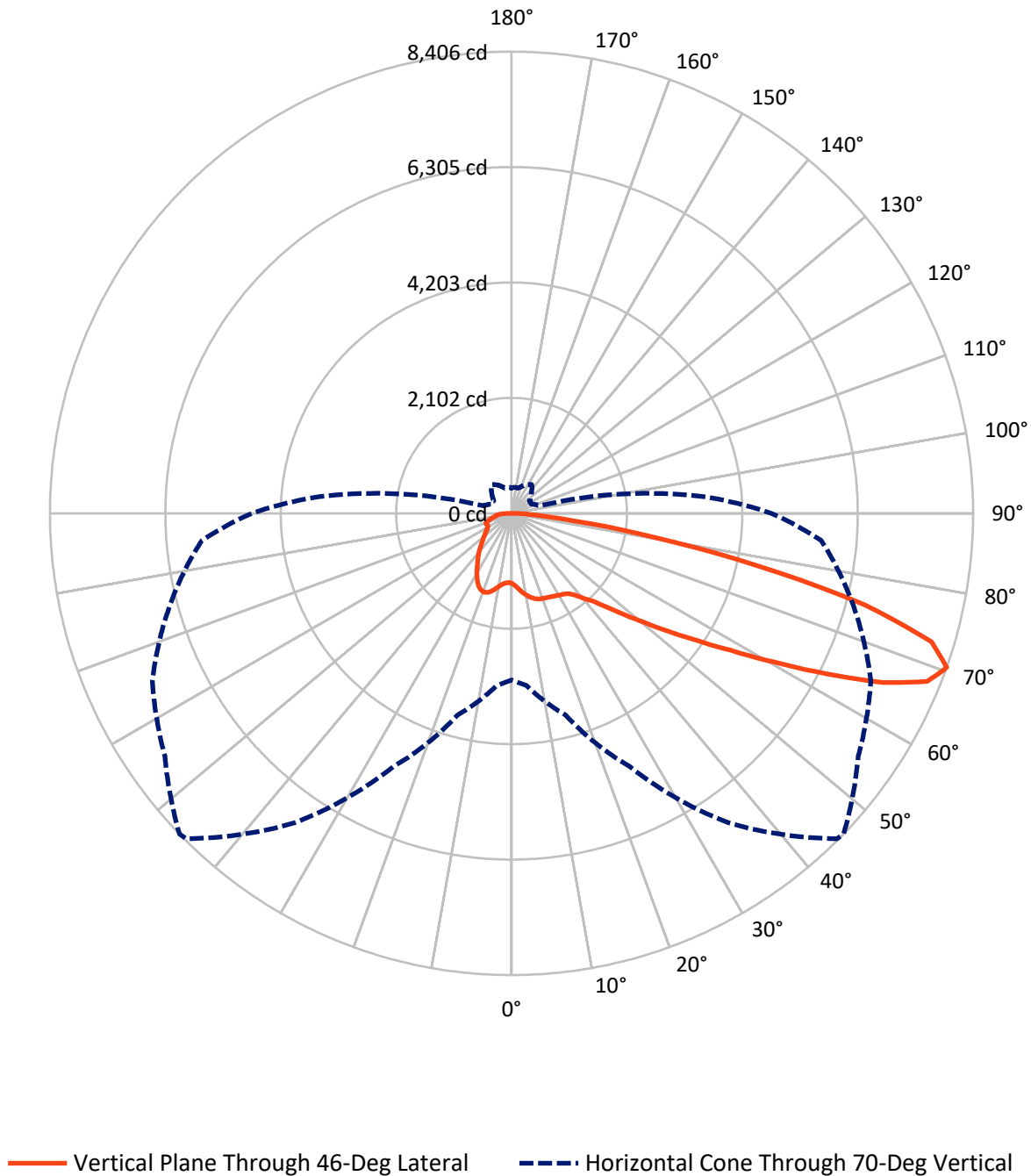
✕ Max cd
 - - - 1/2 Max cd



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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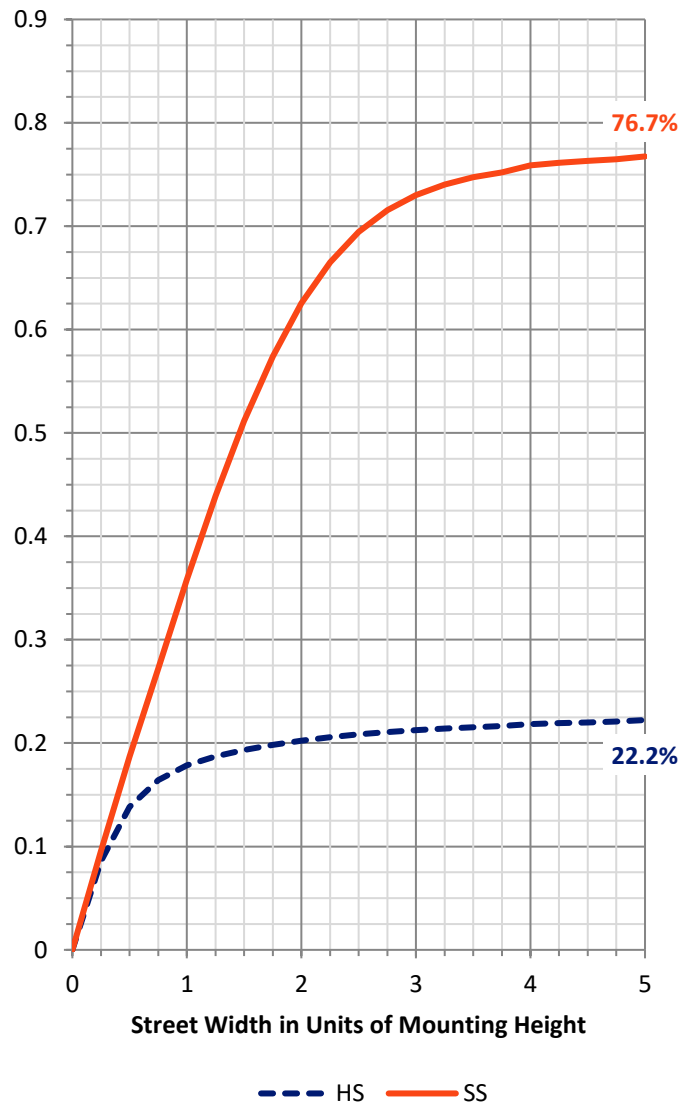
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2871.1	0.0	2871.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9655.9	0.0	9655.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	12527.0	0.0	12527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.0
10°-20°	433.5	3.5
20°-30°	722.8	5.8
30°-40°	1025.6	8.2
40°-50°	1508.7	12.0
50°-60°	2554.9	20.4
60°-70°	3626.7	29.0
70°-80°	2203.2	17.6
80°-90°	321.5	2.6
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°	12527.0	100.0
0°-180°	12527.0	100.0

Coefficient of Utilization



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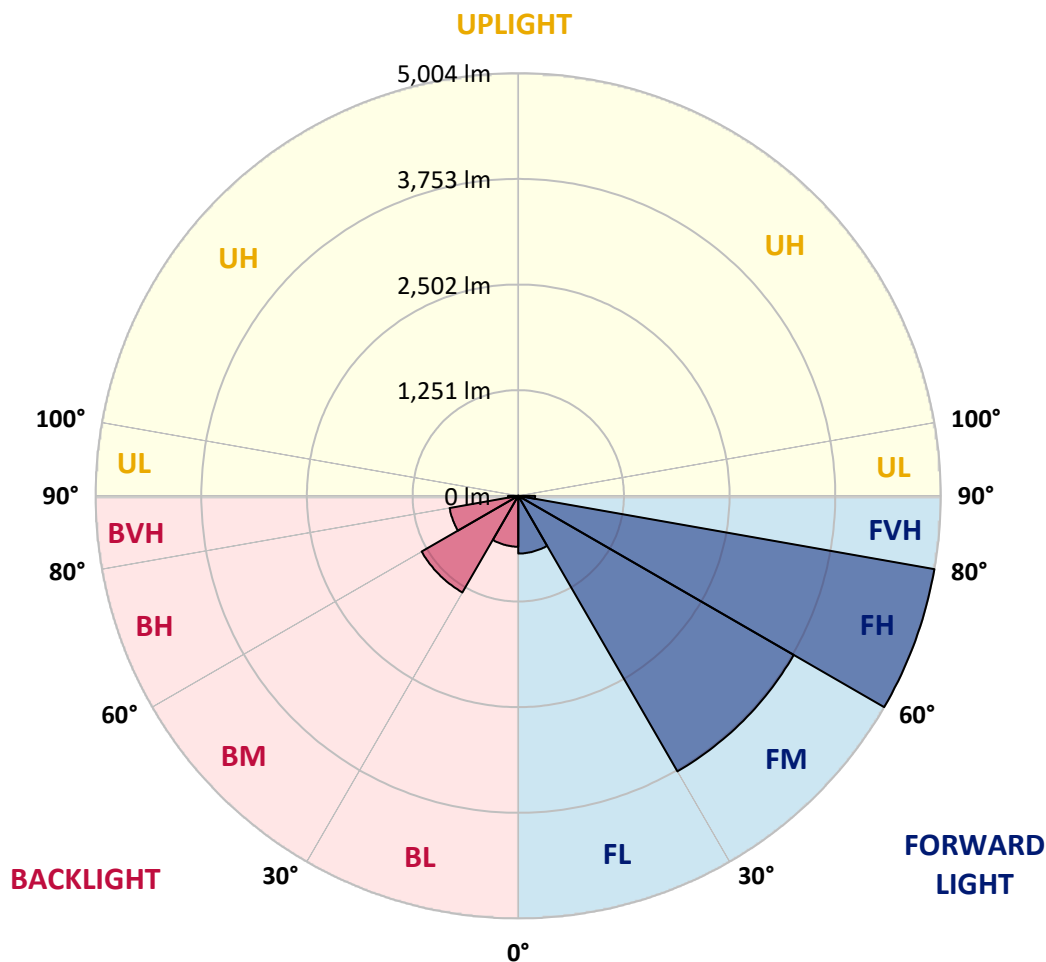
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.5	5.5			
FM	(30°-60°)	3767.6	30.1			
FH	(60°-80°)	5004.5	39.9			G3/7500
FVH	(80°-90°)	200.3	1.6			G2/225
BL	(0°-30°)	602.8	4.8	B2/1000		
BM	(30°-60°)	1321.7	10.6	B2/2500		
BH	(60°-80°)	825.4	6.6	B2/1000		G2/1000
BVH	(80°-90°)	121.2	1.0			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°	46°	55°	65°	75°	85°
0°	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3
2.5°	1340.1	1341.0	1342.7	1338.4	1326.4	1323.0	1321.7	1309.3	1301.1	1289.1	1278.8
5°	1447.3	1448.2	1445.6	1433.6	1407.0	1387.3	1385.6	1357.3	1331.6	1304.1	1283.5
7.5°	1559.2	1560.5	1552.3	1529.6	1492.3	1458.0	1455.9	1417.3	1378.3	1336.7	1305.8
10°	1658.2	1653.1	1639.8	1608.1	1563.9	1521.9	1520.2	1479.9	1434.9	1384.7	1343.6
12.5°	1724.3	1720.0	1702.8	1664.2	1615.8	1577.2	1573.8	1536.5	1492.8	1437.9	1388.6
15°	1760.7	1763.7	1740.5	1696.8	1649.7	1617.1	1614.1	1587.5	1548.5	1493.2	1436.6
17.5°	1765.4	1768.0	1745.7	1702.4	1663.8	1641.5	1640.2	1622.7	1594.4	1541.2	1482.0
20°	1738.0	1739.7	1721.3	1685.7	1660.4	1653.5	1653.1	1645.4	1624.4	1577.2	1519.8
22.5°	1698.1	1699.4	1686.1	1660.4	1651.8	1662.5	1665.5	1662.5	1647.5	1603.4	1549.3
25°	1688.2	1687.4	1673.7	1647.5	1654.8	1677.5	1681.4	1682.7	1672.4	1633.8	1587.1
27.5°	1735.8	1732.8	1706.7	1664.7	1669.4	1696.8	1702.0	1714.4	1708.0	1674.1	1629.9
30°	1873.4	1868.3	1814.7	1729.8	1706.7	1720.8	1727.3	1747.0	1748.3	1720.0	1687.0
32.5°	2105.8	2099.4	2003.3	1851.6	1769.7	1745.3	1751.3	1780.8	1796.7	1774.8	1739.3
35°	2399.5	2392.2	2266.1	2058.6	1875.2	1792.0	1796.3	1819.9	1851.6	1820.7	1773.6
37.5°	2705.6	2688.0	2566.7	2302.1	2042.8	1891.9	1891.9	1894.9	1909.9	1845.6	1813.9
40°	3009.9	2992.4	2882.6	2588.5	2259.7	2049.2	2039.4	1972.9	1960.9	1905.6	1894.9
42.5°	3292.9	3287.7	3223.0	2912.2	2514.4	2204.0	2190.3	2077.5	2080.1	2045.8	2046.2
45°	3593.8	3593.8	3541.1	3238.9	2811.0	2452.6	2438.9	2273.0	2298.7	2282.9	2321.0
47.5°	3839.5	3847.2	3839.9	3579.3	3156.1	2768.6	2743.7	2543.9	2616.0	2670.4	2781.4
50°	4090.3	4102.3	4103.6	3952.7	3573.3	3144.1	3115.8	2903.6	3064.4	3220.4	3438.6
52.5°	4454.2	4481.3	4373.7	4325.2	4084.3	3590.0	3562.1	3366.2	3634.6	3853.6	4229.6
55°	4791.6	4768.1	4691.3	4721.3	4631.3	4097.6	4076.6	3904.6	4269.9	4554.6	5042.9
57.5°	4974.3	4972.6	5049.7	5178.3	5221.2	4723.5	4705.9	4538.7	4986.3	5200.2	5806.4
60°	5188.6	5191.6	5382.8	5674.8	5851.4	5502.9	5495.1	5368.2	5682.1	5803.0	6405.3
62.5°	5218.6	5272.6	5601.9	6104.3	6441.3	6413.4	6430.6	6115.5	6304.5	6284.0	6852.4
65°	4873.5	4944.7	5540.6	6234.2	7027.8	7409.3	7425.2	6867.0	6795.4	6695.1	7012.3
67.5°	4166.2	4271.6	4919.0	5951.7	7221.1	8145.4	8167.7	7449.6	7202.7	6834.4	6627.4
70°	3031.8	3148.8	3800.5	5083.2	6876.4	8380.8	8406.1	7707.3	7218.1	6437.9	5657.6
72.5°	1831.4	1923.2	2460.3	3742.2	5803.8	7952.1	7997.1	7380.6	6590.1	5453.1	4177.7
75°	804.3	864.3	1189.7	2156.4	4155.0	6579.3	6635.5	6317.4	5354.5	3963.0	2469.3
77.5°	342.5	359.7	487.9	936.7	2348.9	4495.8	4573.0	4615.9	3632.8	2156.4	1043.5
80°	213.5	220.4	276.1	424.0	1099.2	2525.1	2608.2	2715.8	1804.0	792.7	364.4
82.5°	129.9	137.6	183.5	256.4	572.3	1144.6	1184.5	1260.4	700.1	342.5	188.6
85°	78.0	83.6	112.3	162.1	325.8	450.1	449.7	497.3	329.7	220.4	99.5
87.5°	37.3	41.6	60.0	84.0	164.2	168.9	158.2	179.2	200.2	144.5	50.2
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°	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3	1276.3
2.5°	1275.4	1273.7	1268.1	1263.8	1263.0	1260.4	1258.3	1259.5	1261.3	1261.7	1261.7
5°	1275.0	1270.3	1263.0	1260.0	1263.8	1269.0	1275.4	1284.0	1289.1	1293.0	1295.5
7.5°	1295.5	1286.5	1278.4	1276.7	1284.4	1298.1	1312.7	1330.7	1343.1	1351.7	1353.4
10°	1329.8	1318.7	1310.6	1312.3	1326.0	1345.7	1366.3	1389.4	1408.3	1419.9	1420.7
12.5°	1369.3	1358.6	1350.9	1358.1	1380.9	1404.9	1426.3	1446.5	1463.6	1475.2	1475.2
15°	1414.7	1407.0	1398.0	1414.7	1445.6	1467.0	1476.0	1485.9	1495.3	1503.9	1502.2
17.5°	1458.5	1451.2	1446.5	1466.2	1498.3	1508.2	1502.2	1494.9	1494.9	1499.6	1500.5
20°	1496.2	1489.8	1492.8	1512.0	1528.8	1518.5	1496.2	1473.0	1463.6	1466.2	1468.7
22.5°	1529.2	1526.2	1535.2	1544.2	1532.2	1496.2	1455.0	1423.7	1412.2	1411.3	1412.2
25°	1567.8	1567.3	1578.5	1562.2	1509.0	1442.6	1387.3	1356.9	1350.4	1355.6	1364.1
27.5°	1615.8	1620.5	1626.1	1566.5	1461.9	1361.6	1305.4	1284.4	1290.8	1303.3	1311.4
30°	1677.1	1690.0	1678.0	1555.8	1394.2	1269.0	1215.4	1209.4	1227.0	1244.5	1253.1
32.5°	1736.7	1756.8	1727.7	1527.9	1306.7	1170.8	1129.2	1127.5	1148.9	1166.1	1178.1
35°	1784.7	1824.6	1765.0	1472.6	1205.5	1080.3	1049.9	1038.3	1046.0	1066.2	1079.9
37.5°	1847.3	1913.7	1790.7	1388.1	1095.8	1005.7	970.2	943.6	936.7	944.9	951.7
40°	1961.8	2049.6	1802.7	1270.3	988.6	931.1	895.1	856.1	829.1	809.4	809.8
42.5°	2148.7	2226.7	1795.0	1127.1	889.6	858.3	817.5	772.5	728.8	684.2	680.8
45°	2452.2	2489.9	1771.8	975.3	802.5	782.0	743.8	698.8	640.5	589.9	585.2
47.5°	2937.9	2854.3	1735.8	842.8	725.8	717.2	682.1	630.2	568.5	527.7	524.3
50°	3600.3	3380.3	1718.3	737.4	658.1	660.6	631.9	577.0	518.7	488.7	485.3
52.5°	4392.5	3993.0	1752.1	655.9	603.6	612.6	591.2	539.7	490.9	467.3	463.9
55°	5214.3	4627.4	1788.6	596.8	552.2	569.7	562.5	520.0	475.9	454.0	451.0
57.5°	5917.8	5101.2	1715.7	548.7	506.3	533.7	540.2	507.6	468.1	448.4	445.0
60°	6360.7	5291.9	1524.5	503.7	469.9	505.0	527.3	504.2	471.1	469.4	466.9
62.5°	6570.8	5275.2	1237.7	468.1	447.1	492.6	536.7	523.4	505.4	520.9	522.2
65°	6476.5	5023.1	921.7	444.6	430.8	497.3	565.0	559.9	515.3	530.7	532.9
67.5°	5855.7	4421.7	682.5	424.0	412.8	510.6	616.5	571.9	496.0	507.2	500.3
70°	4732.9	3505.5	526.5	400.8	394.4	508.9	639.6	564.6	475.0	477.6	459.1
72.5°	3263.7	2390.5	428.3	379.4	367.8	463.9	623.3	546.6	457.4	437.7	413.3
75°	1774.8	1283.1	364.0	357.1	321.1	407.3	593.3	533.7	441.6	415.4	401.7
77.5°	698.4	532.5	316.0	326.7	280.8	359.7	559.9	509.3	419.7	385.4	378.5
80°	285.1	271.8	261.9	282.5	241.4	314.7	519.6	480.6	393.6	357.5	343.8
82.5°	161.6	168.9	203.6	222.9	195.9	289.8	500.3	457.4	362.3	320.2	304.0
85°	82.7	99.0	141.9	159.9	144.0	246.5	460.9	400.4	290.7	245.2	246.5
87.5°	39.9	55.3	89.6	100.3	93.5	178.3	344.3	290.2	226.4	179.2	173.6
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)