

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: P319176

Luminaire Tested: **GAN-SA2D-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319176
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-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 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: 11588 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

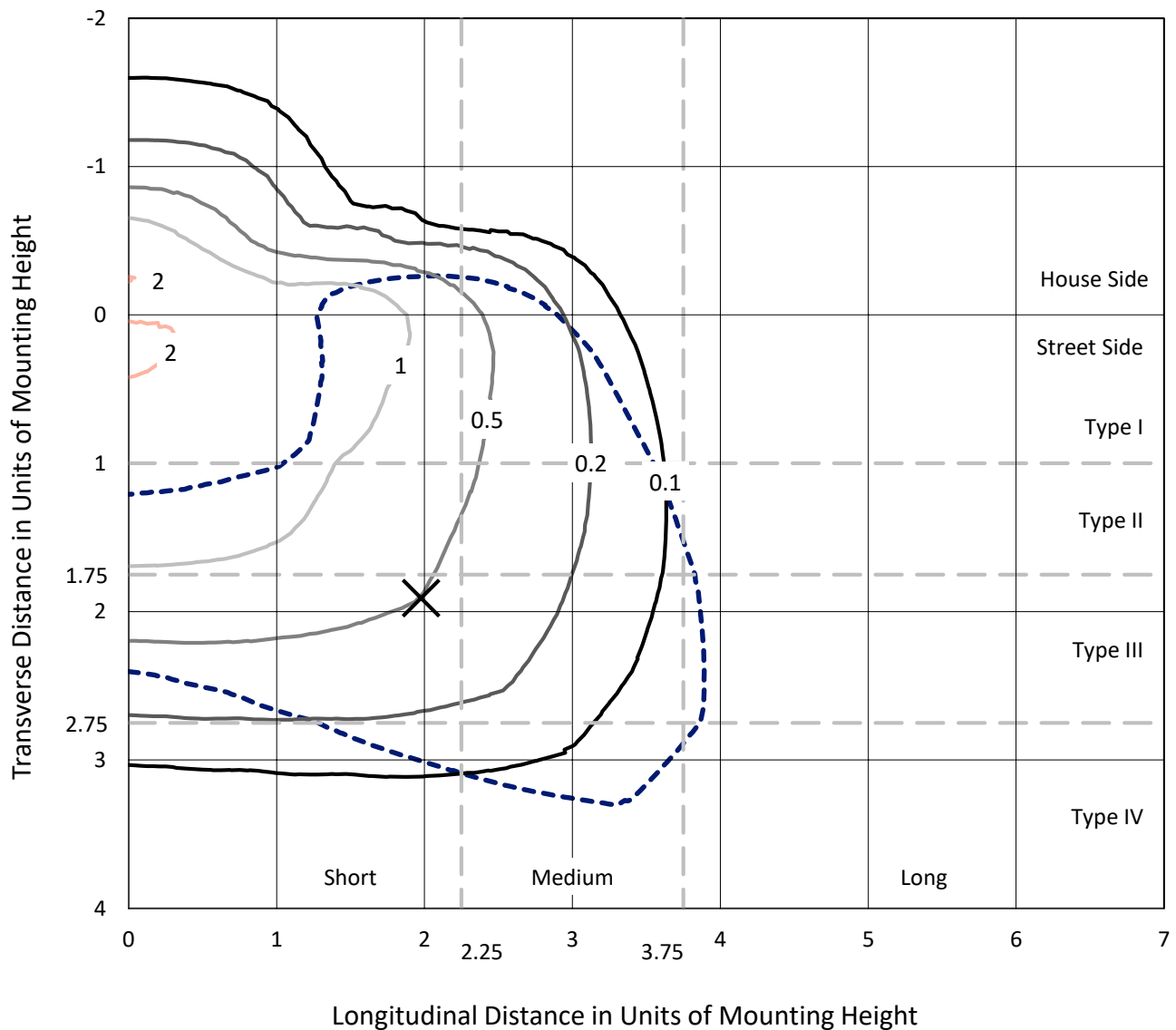
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

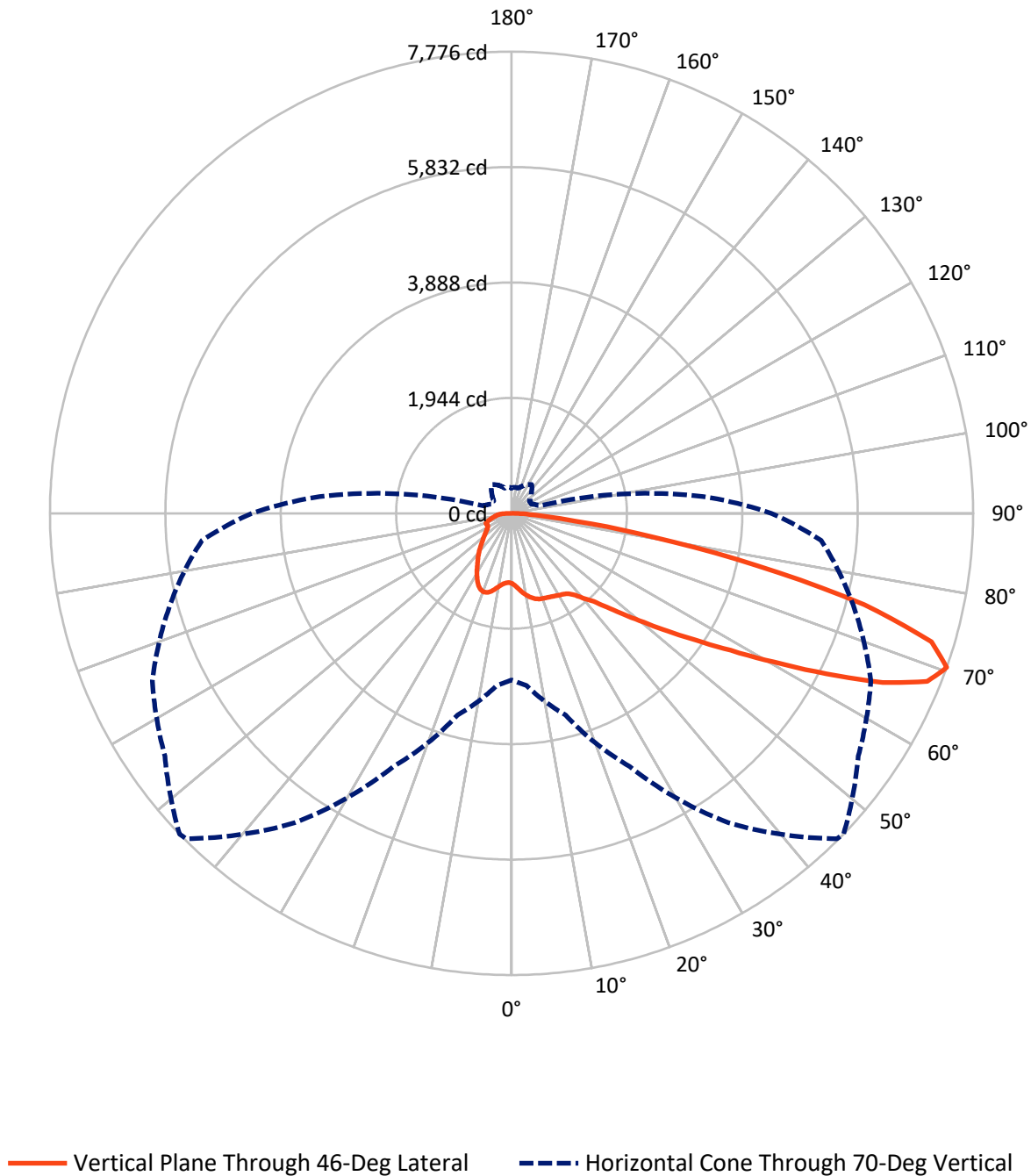
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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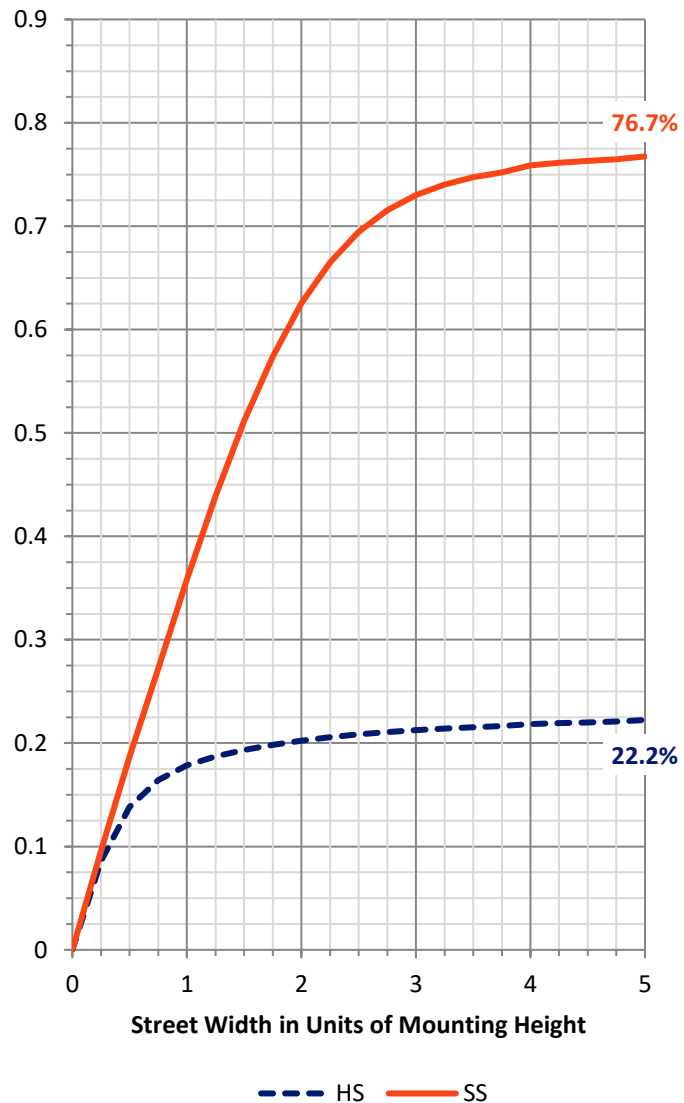
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2655.9	0.0	2655.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8932.1	0.0	8932.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	11588.0	0.0	11588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.0
10°-20°	401.0	3.5
20°-30°	668.6	5.8
30°-40°	948.8	8.2
40°-50°	1395.6	12.0
50°-60°	2363.4	20.4
60°-70°	3354.8	29.0
70°-80°	2038.1	17.6
80°-90°	297.4	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°	11588.0	100.0
0°-180°	11588.0	100.0

Coefficient of Utilization



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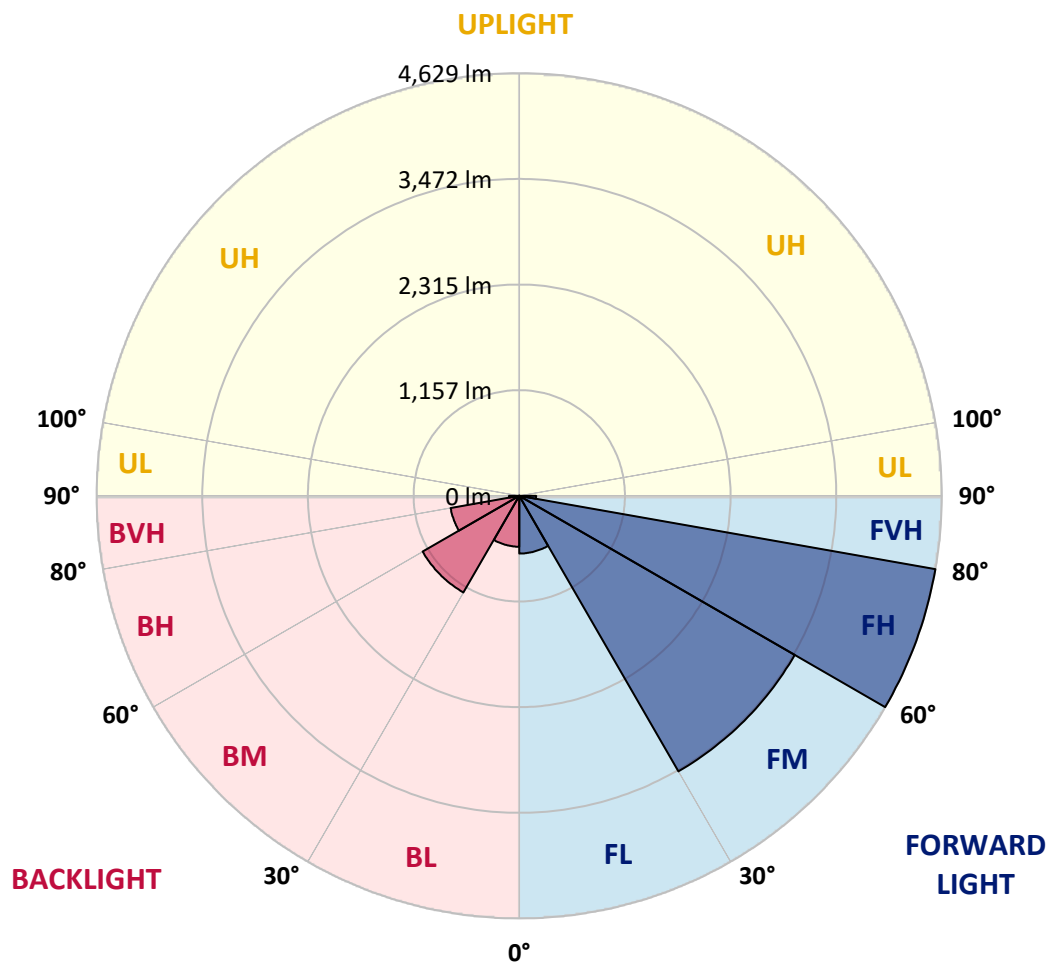
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	632.3	5.5			
FM	(30°-60°)	3485.2	30.1			
FH	(60°-80°)	4629.3	39.9			G2/5000
FVH	(80°-90°)	185.3	1.6			G2/225
BL	(0°-30°)	557.6	4.8	B2/1000		
BM	(30°-60°)	1222.6	10.6	B2/2500		
BH	(60°-80°)	763.6	6.6	B2/1000		G2/1000
BVH	(80°-90°)	112.2	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1239.7	1240.5	1242.1	1238.1	1227.0	1223.8	1222.6	1211.1	1203.6	1192.5	1183.0
5°	1338.8	1339.6	1337.2	1326.1	1301.5	1283.3	1281.7	1255.5	1231.7	1206.4	1187.3
7.5°	1442.3	1443.5	1436.0	1415.0	1380.5	1348.7	1346.8	1311.1	1275.0	1236.5	1208.0
10°	1533.9	1529.2	1516.9	1487.5	1446.7	1407.8	1406.2	1369.0	1327.3	1280.9	1242.9
12.5°	1595.0	1591.0	1575.2	1539.5	1494.7	1459.0	1455.8	1421.3	1380.9	1330.1	1284.5
15°	1628.7	1631.5	1610.1	1569.6	1526.0	1495.9	1493.1	1468.5	1432.4	1381.3	1328.9
17.5°	1633.1	1635.5	1614.8	1574.8	1539.1	1518.5	1517.3	1501.0	1474.8	1425.7	1370.9
20°	1607.7	1609.3	1592.2	1559.3	1535.9	1529.6	1529.2	1522.0	1502.6	1459.0	1405.8
22.5°	1570.8	1572.0	1559.7	1535.9	1528.0	1537.9	1540.7	1537.9	1524.0	1483.2	1433.2
25°	1561.7	1560.9	1548.2	1524.0	1530.8	1551.8	1555.3	1556.5	1547.0	1511.3	1468.1
27.5°	1605.7	1602.9	1578.7	1539.9	1544.2	1569.6	1574.4	1585.9	1579.9	1548.6	1507.8
30°	1733.0	1728.3	1678.7	1600.2	1578.7	1591.8	1597.8	1616.0	1617.2	1591.0	1560.5
32.5°	1948.0	1942.0	1853.2	1712.8	1637.0	1614.4	1620.0	1647.4	1662.0	1641.8	1608.9
35°	2219.6	2212.9	2096.3	1904.3	1734.6	1657.7	1661.6	1683.4	1712.8	1684.2	1640.6
37.5°	2502.8	2486.5	2374.3	2129.6	1889.7	1750.1	1750.1	1752.8	1766.7	1707.2	1677.9
40°	2784.3	2768.1	2666.5	2394.5	2090.3	1895.6	1886.5	1825.0	1813.9	1762.8	1752.8
42.5°	3046.1	3041.3	2981.4	2693.9	2325.9	2038.8	2026.1	1921.8	1924.2	1892.4	1892.8
45°	3324.5	3324.5	3275.7	2996.1	2600.3	2268.8	2256.1	2102.6	2126.4	2111.7	2147.0
47.5°	3551.7	3558.8	3552.1	3311.0	2919.6	2561.1	2538.1	2353.2	2419.9	2470.2	2572.9
50°	3783.7	3794.8	3796.0	3656.4	3305.4	2908.4	2882.3	2686.0	2834.7	2979.0	3180.9
52.5°	4120.4	4145.4	4045.8	4001.0	3778.1	3320.9	3295.1	3113.9	3362.1	3564.8	3912.6
55°	4432.5	4410.7	4339.7	4367.4	4284.2	3790.4	3771.0	3612.0	3949.8	4213.2	4664.9
57.5°	4601.4	4599.8	4671.2	4790.2	4829.8	4369.4	4353.2	4198.5	4612.5	4810.4	5371.2
60°	4799.7	4802.5	4979.3	5249.4	5412.8	5090.4	5083.2	4965.9	5256.1	5368.0	5925.2
62.5°	4827.5	4877.4	5182.0	5646.8	5958.5	5932.7	5948.6	5657.1	5832.0	5812.9	6338.8
65°	4508.2	4574.0	5125.3	5766.9	6501.0	6853.9	6868.6	6352.3	6286.0	6193.2	6486.7
67.5°	3853.9	3951.4	4550.2	5505.6	6679.8	7534.8	7555.5	6891.2	6662.8	6322.1	6130.6
70°	2804.5	2912.8	3515.6	4702.1	6361.0	7752.6	7776.0	7129.5	6677.1	5955.3	5233.5
72.5°	1694.1	1779.0	2275.9	3461.7	5368.8	7356.0	7397.6	6827.4	6096.1	5044.4	3864.6
75°	744.0	799.5	1100.5	1994.7	3843.6	6086.2	6138.1	5843.9	4953.2	3665.9	2284.2
77.5°	316.9	332.7	451.3	866.5	2172.8	4158.8	4230.2	4269.9	3360.5	1994.7	965.3
80°	197.5	203.8	255.4	392.2	1016.8	2335.8	2412.7	2512.3	1668.8	733.3	337.1
82.5°	120.2	127.3	169.7	237.1	529.4	1058.8	1095.7	1165.9	647.6	316.9	174.5
85°	72.2	77.3	103.9	149.9	301.4	416.4	416.0	460.0	305.0	203.8	92.0
87.5°	34.5	38.5	55.5	77.7	151.9	156.2	146.3	165.8	185.2	133.6	46.4
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°	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1179.8	1178.2	1173.1	1169.1	1168.3	1165.9	1163.9	1165.1	1166.7	1167.1	1167.1
5°	1179.4	1175.0	1168.3	1165.5	1169.1	1173.8	1179.8	1187.7	1192.5	1196.1	1198.4
7.5°	1198.4	1190.1	1182.6	1181.0	1188.1	1200.8	1214.3	1231.0	1242.5	1250.4	1252.0
10°	1230.2	1219.9	1212.3	1213.9	1226.6	1244.8	1263.9	1285.3	1302.7	1313.4	1314.2
12.5°	1266.6	1256.7	1249.6	1256.3	1277.4	1299.6	1319.4	1338.0	1353.9	1364.6	1364.6
15°	1308.7	1301.5	1293.2	1308.7	1337.2	1357.1	1365.4	1374.5	1383.2	1391.2	1389.6
17.5°	1349.1	1342.4	1338.0	1356.3	1386.0	1395.1	1389.6	1382.8	1382.8	1387.2	1388.0
20°	1384.0	1378.1	1380.9	1398.7	1414.2	1404.7	1384.0	1362.6	1353.9	1356.3	1358.7
22.5°	1414.6	1411.8	1420.1	1428.4	1417.3	1384.0	1346.0	1317.0	1306.3	1305.5	1306.3
25°	1450.3	1449.9	1460.2	1445.1	1395.9	1334.5	1283.3	1255.1	1249.2	1254.0	1261.9
27.5°	1494.7	1499.0	1504.2	1449.1	1352.3	1259.5	1207.6	1188.1	1194.1	1205.6	1213.1
30°	1551.4	1563.3	1552.2	1439.2	1289.6	1173.8	1124.3	1118.7	1135.0	1151.2	1159.2
32.5°	1606.5	1625.1	1598.2	1413.4	1208.7	1083.0	1044.6	1043.0	1062.8	1078.7	1089.8
35°	1650.9	1687.8	1632.7	1362.2	1115.2	999.4	971.2	960.5	967.6	986.3	999.0
37.5°	1708.8	1770.3	1656.5	1284.1	1013.6	930.4	897.4	872.9	866.5	874.0	880.4
40°	1814.7	1896.0	1667.6	1175.0	914.5	861.4	828.0	792.0	767.0	748.7	749.1
42.5°	1987.6	2059.8	1660.4	1042.6	822.9	793.9	756.3	714.6	674.2	632.9	629.8
45°	2268.4	2303.3	1639.0	902.2	742.4	723.3	688.0	646.4	592.5	545.7	541.3
47.5°	2717.7	2640.4	1605.7	779.7	671.4	663.5	630.9	583.0	525.9	488.2	485.0
50°	3330.4	3127.0	1589.5	682.1	608.7	611.1	584.5	533.8	479.9	452.1	448.9
52.5°	4063.3	3693.7	1620.8	606.8	558.4	566.7	546.9	499.3	454.1	432.3	429.1
55°	4823.5	4280.6	1654.5	552.0	510.8	527.0	520.3	481.0	440.2	420.0	417.2
57.5°	5474.3	4718.8	1587.1	507.6	468.3	493.7	499.7	469.5	433.1	414.8	411.6
60°	5883.9	4895.3	1410.2	466.0	434.6	467.2	487.8	466.4	435.8	434.2	431.9
62.5°	6078.2	4879.8	1144.9	433.1	413.6	455.7	496.5	484.2	467.6	481.8	483.0
65°	5991.0	4646.6	852.6	411.2	398.6	460.0	522.7	517.9	476.7	491.0	492.9
67.5°	5416.8	4090.2	631.3	392.2	381.9	472.3	570.3	529.0	458.8	469.1	462.8
70°	4378.1	3242.8	487.0	370.8	364.8	470.7	591.7	522.3	439.4	441.8	424.7
72.5°	3019.1	2211.3	396.2	351.0	340.3	429.1	576.6	505.6	423.1	404.9	382.3
75°	1641.8	1186.9	336.7	330.3	297.0	376.7	548.9	493.7	408.5	384.3	371.6
77.5°	646.0	492.5	292.3	302.2	259.8	332.7	517.9	471.1	388.2	356.5	350.2
80°	263.7	251.4	242.3	261.3	223.3	291.1	480.6	444.6	364.1	330.7	318.0
82.5°	149.5	156.2	188.4	206.2	181.2	268.1	462.8	423.1	335.1	296.2	281.2
85°	76.5	91.6	131.3	147.9	133.2	228.0	426.3	370.4	268.9	226.8	228.0
87.5°	36.9	51.2	82.9	92.8	86.5	165.0	318.4	268.5	209.4	165.8	160.6
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)