

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: P318976

Luminaire Tested: **GAN-SA2D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318976
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-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 13183 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

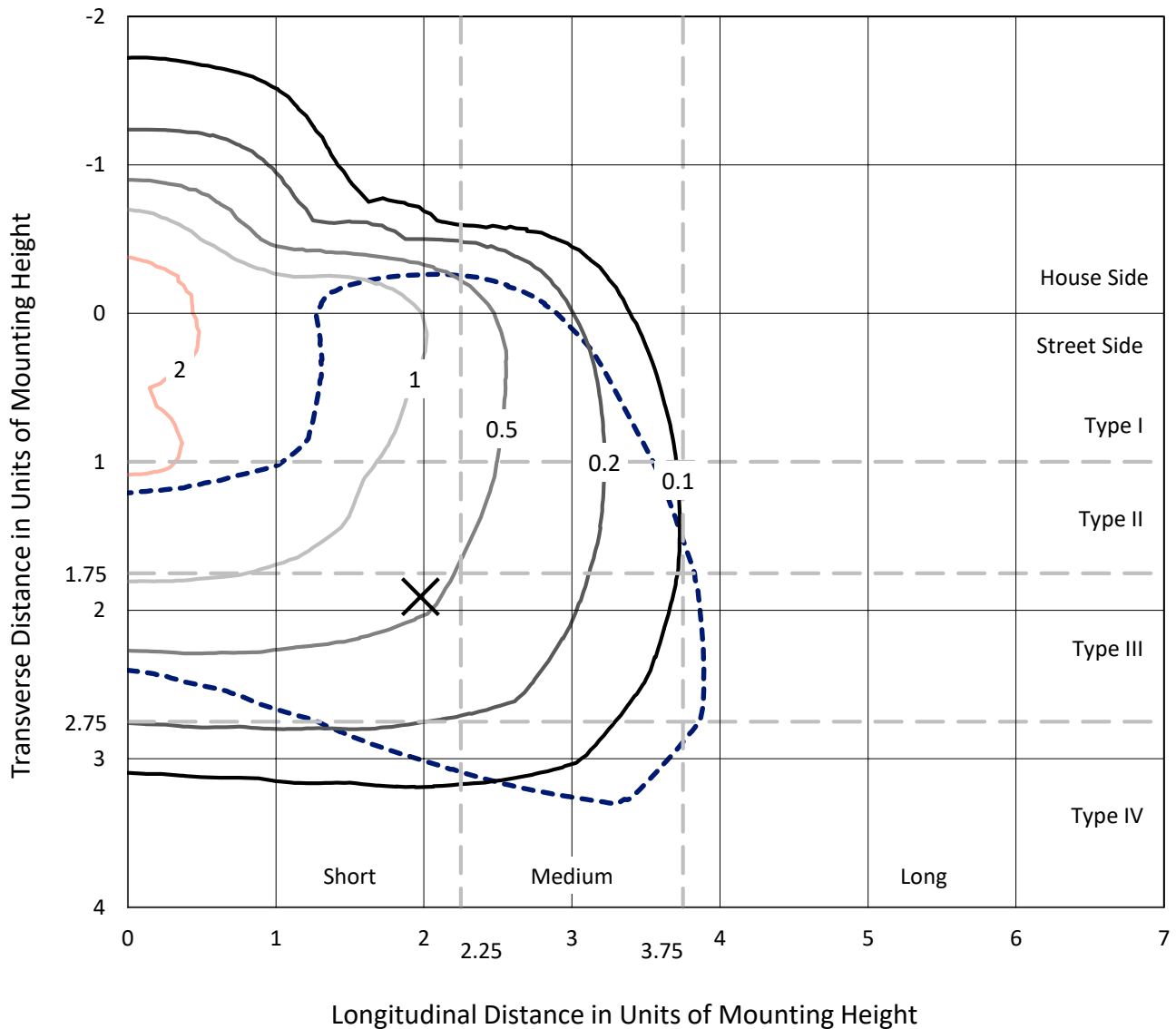
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

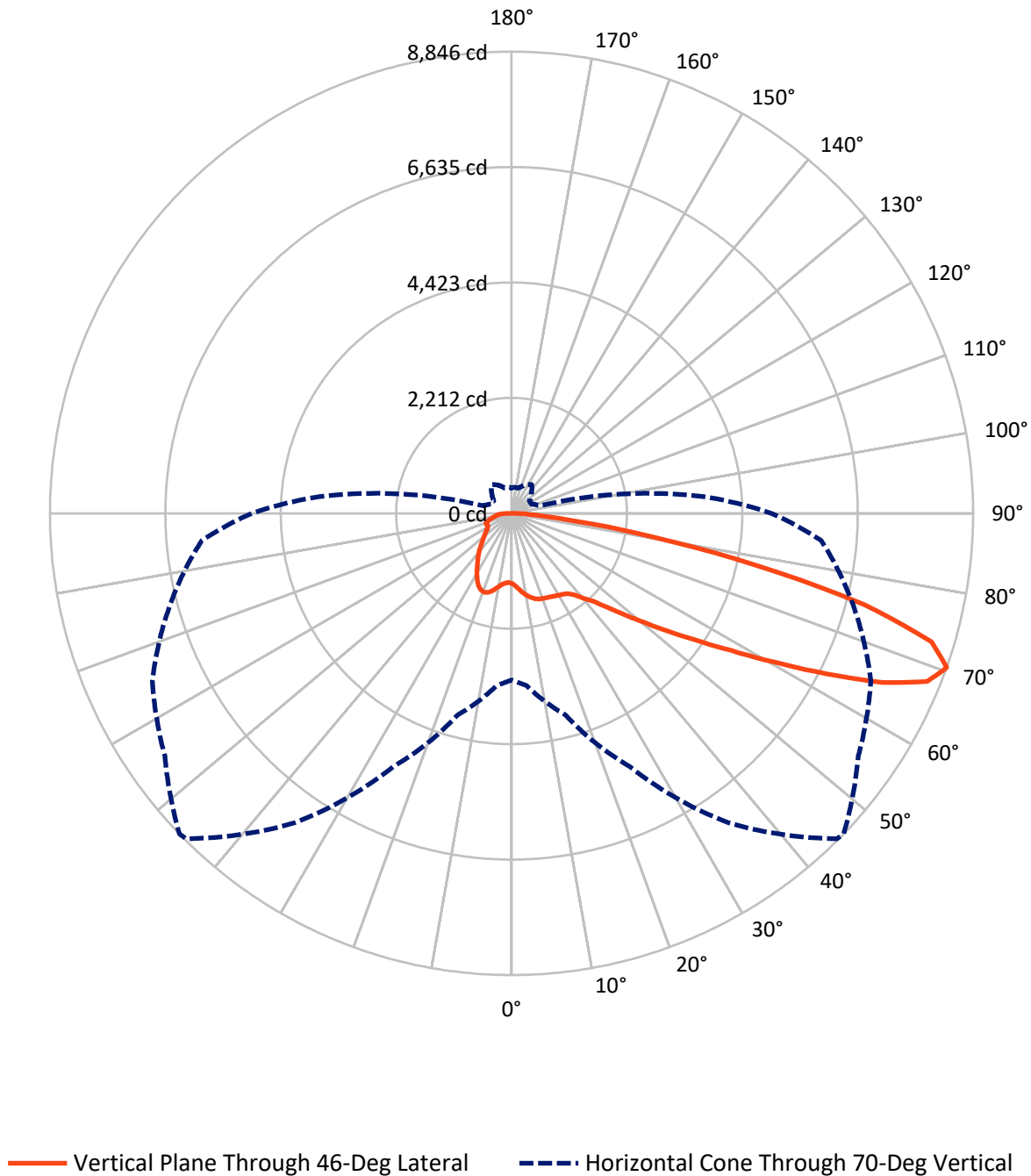
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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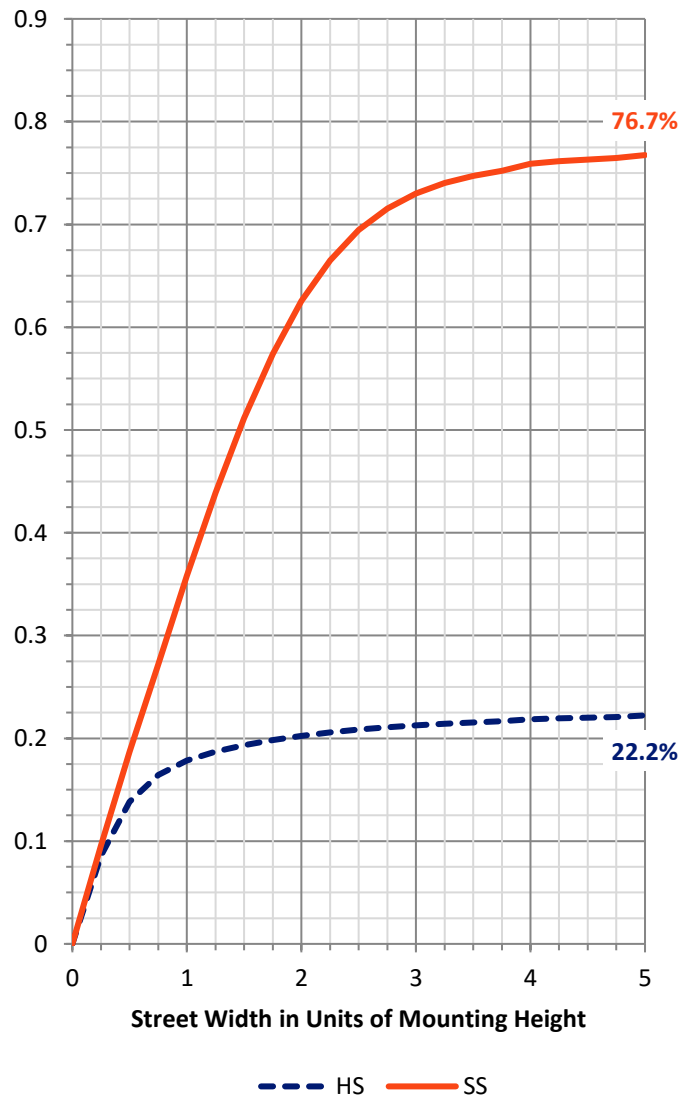
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3021.5	0.0	3021.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10161.5	0.0	10161.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	13183.0	0.0	13183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	1.0
10°-20°	456.2	3.5
20°-30°	760.6	5.8
30°-40°	1079.3	8.2
40°-50°	1587.7	12.0
50°-60°	2688.7	20.4
60°-70°	3816.6	29.0
70°-80°	2318.6	17.6
80°-90°	338.4	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°	13183.0	100.0
0°-180°	13183.0	100.0

Coefficient of Utilization



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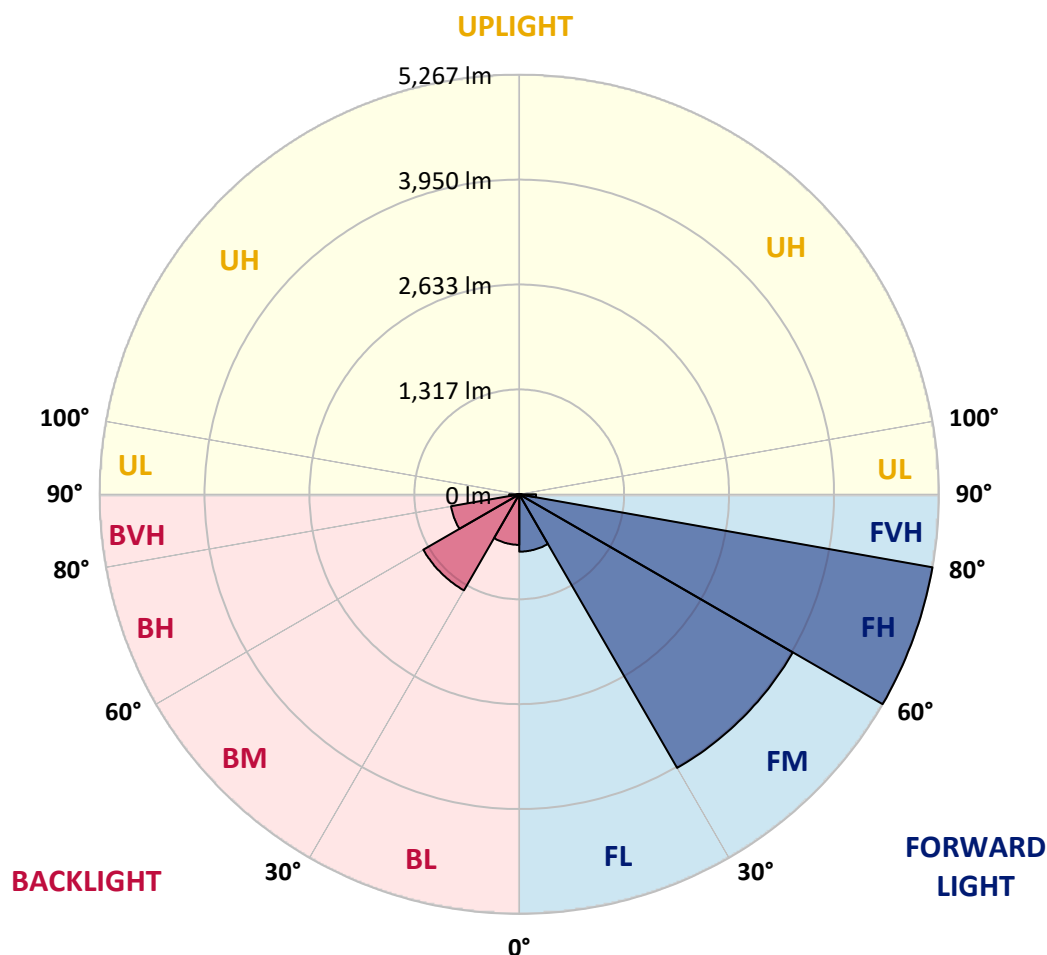
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.3	5.5			
FM	(30°-60°)	3964.9	30.1			
FH	(60°-80°)	5266.5	39.9			G3/7500
FVH	(80°-90°)	210.8	1.6			G2/225
BL	(0°-30°)	634.4	4.8	B2/1000		
BM	(30°-60°)	1390.9	10.6	B2/2500		
BH	(60°-80°)	868.7	6.6	B2/1000		G2/1000
BVH	(80°-90°)	127.6	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°	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1410.3	1411.2	1413.0	1408.5	1395.9	1392.3	1390.9	1377.8	1369.3	1356.6	1345.8
5°	1523.1	1524.0	1521.3	1508.7	1480.7	1459.9	1458.1	1428.4	1401.3	1372.4	1350.8
7.5°	1640.9	1642.2	1633.6	1609.7	1570.5	1534.4	1532.1	1491.5	1450.5	1406.7	1374.2
10°	1745.1	1739.7	1725.7	1692.3	1645.8	1601.6	1599.8	1557.4	1510.0	1457.2	1413.9
12.5°	1814.5	1810.0	1792.0	1751.4	1700.4	1659.8	1656.2	1616.9	1570.9	1513.2	1461.3
15°	1852.9	1856.1	1831.7	1785.7	1736.0	1701.8	1698.6	1670.6	1629.6	1571.4	1511.8
17.5°	1857.9	1860.6	1837.1	1791.5	1750.9	1727.5	1726.1	1707.6	1677.8	1621.9	1559.6
20°	1829.0	1830.8	1811.4	1773.9	1747.3	1740.1	1739.7	1731.5	1709.4	1659.8	1599.3
22.5°	1787.0	1788.4	1774.4	1747.3	1738.3	1749.6	1752.7	1749.6	1733.8	1687.3	1630.5
25°	1776.7	1775.7	1761.3	1733.8	1741.5	1765.4	1769.4	1770.8	1760.0	1719.4	1670.2
27.5°	1826.7	1823.6	1796.0	1751.8	1756.8	1785.7	1791.1	1804.2	1797.4	1761.8	1715.3
30°	1971.5	1966.1	1909.7	1820.4	1796.0	1810.9	1817.7	1838.5	1839.8	1810.0	1775.3
32.5°	2216.1	2209.3	2108.2	1948.5	1862.4	1836.7	1843.0	1874.1	1890.8	1867.8	1830.3
35°	2525.1	2517.4	2384.8	2166.4	1973.4	1885.8	1890.3	1915.2	1948.5	1916.1	1866.4
37.5°	2847.2	2828.7	2701.1	2422.7	2149.8	1990.9	1990.9	1994.1	2009.9	1942.2	1908.8
40°	3167.6	3149.1	3033.6	2724.1	2378.0	2156.5	2146.1	2076.2	2063.6	2005.4	1994.1
42.5°	3465.3	3459.9	3391.8	3064.7	2646.0	2319.4	2305.0	2186.3	2189.0	2152.9	2153.4
45°	3782.0	3782.0	3726.5	3408.5	2958.2	2581.1	2566.6	2392.0	2419.1	2402.4	2442.6
47.5°	4040.5	4048.7	4041.0	3766.7	3321.4	2913.6	2887.4	2677.2	2753.0	2810.2	2927.1
50°	4304.5	4317.1	4318.5	4159.7	3760.4	3308.8	3279.0	3055.7	3224.9	3389.1	3618.7
52.5°	4687.5	4715.9	4602.7	4551.7	4298.2	3778.0	3748.7	3542.5	3824.9	4055.4	4451.1
55°	5042.6	5017.8	4937.0	4968.6	4873.8	4312.1	4290.0	4109.1	4493.5	4793.1	5306.9
57.5°	5234.8	5233.0	5314.2	5449.5	5494.6	4970.8	4952.3	4776.4	5247.4	5472.5	6110.4
60°	5460.3	5463.5	5664.7	5971.9	6157.8	5791.0	5782.9	5649.4	5979.6	6106.8	6740.7
62.5°	5491.9	5548.8	5895.2	6424.0	6778.6	6749.3	6767.3	6435.7	6634.7	6613.0	7211.3
65°	5128.7	5203.6	5830.7	6560.7	7395.8	7797.3	7814.0	7226.6	7151.3	7045.7	7379.5
67.5°	4384.3	4495.3	5176.6	6263.4	7599.3	8572.0	8595.4	7839.7	7579.9	7192.3	6974.4
70°	3190.6	3313.7	3999.5	5349.3	7236.5	8819.6	8846.3	8110.9	7596.1	6775.0	5953.9
72.5°	1927.3	2023.9	2589.2	3938.1	6107.7	8368.5	8415.9	7767.1	6935.2	5738.7	4396.5
75°	846.4	909.5	1252.0	2269.3	4372.6	6923.9	6983.0	6648.2	5634.9	4170.5	2598.7
77.5°	360.5	378.5	513.4	985.8	2471.9	4731.3	4812.5	4857.6	3823.1	2269.3	1098.1
80°	224.7	231.9	290.5	446.2	1156.8	2657.3	2744.8	2858.1	1898.5	834.2	383.5
82.5°	136.7	144.8	193.1	269.8	602.3	1204.6	1246.5	1326.4	736.7	360.5	198.5
85°	82.1	88.0	118.2	170.5	342.9	473.7	473.3	523.3	346.9	231.9	104.7
87.5°	39.3	43.8	63.2	88.4	172.8	177.8	166.5	188.6	210.7	152.0	52.8
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°	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1342.2	1340.4	1334.5	1330.0	1329.1	1326.4	1324.1	1325.5	1327.3	1327.8	1327.8
5°	1341.7	1336.8	1329.1	1325.9	1330.0	1335.4	1342.2	1351.2	1356.6	1360.7	1363.4
7.5°	1363.4	1353.9	1345.3	1343.5	1351.7	1366.1	1381.4	1400.4	1413.5	1422.5	1424.3
10°	1399.5	1387.8	1379.2	1381.0	1395.4	1416.2	1437.8	1462.2	1482.0	1494.2	1495.1
12.5°	1441.0	1429.7	1421.6	1429.3	1453.2	1478.4	1501.0	1522.2	1540.2	1552.4	1552.4
15°	1488.8	1480.7	1471.2	1488.8	1521.3	1543.9	1553.3	1563.7	1573.6	1582.7	1580.8
17.5°	1534.8	1527.2	1522.2	1543.0	1576.8	1587.2	1580.8	1573.2	1573.2	1578.1	1579.0
20°	1574.5	1567.8	1570.9	1591.2	1608.8	1598.0	1574.5	1550.2	1540.2	1543.0	1545.7
22.5°	1609.3	1606.1	1615.6	1625.1	1612.4	1574.5	1531.2	1498.3	1486.1	1485.2	1486.1
25°	1649.9	1649.4	1661.2	1644.0	1588.1	1518.1	1459.9	1427.9	1421.1	1426.6	1435.6
27.5°	1700.4	1705.4	1711.2	1648.5	1538.4	1432.9	1373.8	1351.7	1358.4	1371.5	1380.1
30°	1764.9	1778.5	1765.8	1637.2	1467.2	1335.4	1279.0	1272.7	1291.2	1309.7	1318.7
32.5°	1827.6	1848.8	1818.2	1607.9	1375.1	1232.1	1188.3	1186.5	1209.1	1227.1	1239.8
35°	1878.2	1920.1	1857.4	1549.7	1268.6	1136.9	1104.9	1092.7	1100.8	1122.0	1136.5
37.5°	1944.0	2014.0	1884.5	1460.8	1153.2	1058.4	1021.0	993.0	985.8	994.3	1001.6
40°	2064.5	2157.0	1897.1	1336.8	1040.4	979.9	942.0	901.0	872.5	851.8	852.2
42.5°	2261.2	2343.3	1889.0	1186.1	936.1	903.2	860.4	813.0	767.0	720.0	716.4
45°	2580.6	2620.3	1864.6	1026.4	844.6	822.9	782.8	735.4	674.0	620.8	615.8
47.5°	3091.8	3003.8	1826.7	887.0	763.8	754.8	717.8	663.2	598.2	555.4	551.8
50°	3788.8	3557.4	1808.2	776.0	692.5	695.2	665.0	607.3	545.9	514.3	510.7
52.5°	4622.5	4202.1	1843.9	690.3	635.2	644.7	622.1	568.0	516.6	491.8	488.2
55°	5487.4	4869.8	1882.2	628.0	581.1	599.6	591.9	547.3	500.8	477.8	474.6
57.5°	6227.7	5368.3	1805.5	577.5	532.8	561.7	568.5	534.2	492.7	471.9	468.3
60°	6693.8	5569.1	1604.3	530.1	494.5	531.5	554.9	530.6	495.8	494.0	491.3
62.5°	6914.9	5551.5	1302.5	492.7	470.6	518.4	564.8	550.9	531.9	548.2	549.5
65°	6815.6	5286.2	970.0	467.8	453.4	523.3	594.6	589.2	542.3	558.5	560.8
67.5°	6162.3	4653.2	718.2	446.2	434.5	537.3	648.8	601.8	522.0	533.7	526.5
70°	4980.8	3689.1	554.0	421.8	415.1	535.5	673.1	594.2	499.9	502.6	483.2
72.5°	3434.6	2515.6	450.7	399.3	387.1	488.2	656.0	575.2	481.4	460.6	434.9
75°	1867.8	1350.3	383.0	375.8	337.9	428.6	624.4	561.7	464.7	437.2	422.7
77.5°	734.9	560.3	332.5	343.8	295.5	378.5	589.2	536.0	441.7	405.6	398.4
80°	300.0	286.0	275.7	297.3	254.0	331.1	546.8	505.7	414.2	376.3	361.8
82.5°	170.1	177.8	214.3	234.6	206.2	305.0	526.5	481.4	381.2	337.0	319.9
85°	87.1	104.2	149.3	168.3	151.6	259.4	485.0	421.4	305.9	258.1	259.4
87.5°	42.0	58.2	94.3	105.6	98.4	187.7	362.3	305.4	238.2	188.6	182.7
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)