

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: P319615

Luminaire Tested: **GAN-SA1D-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6794 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

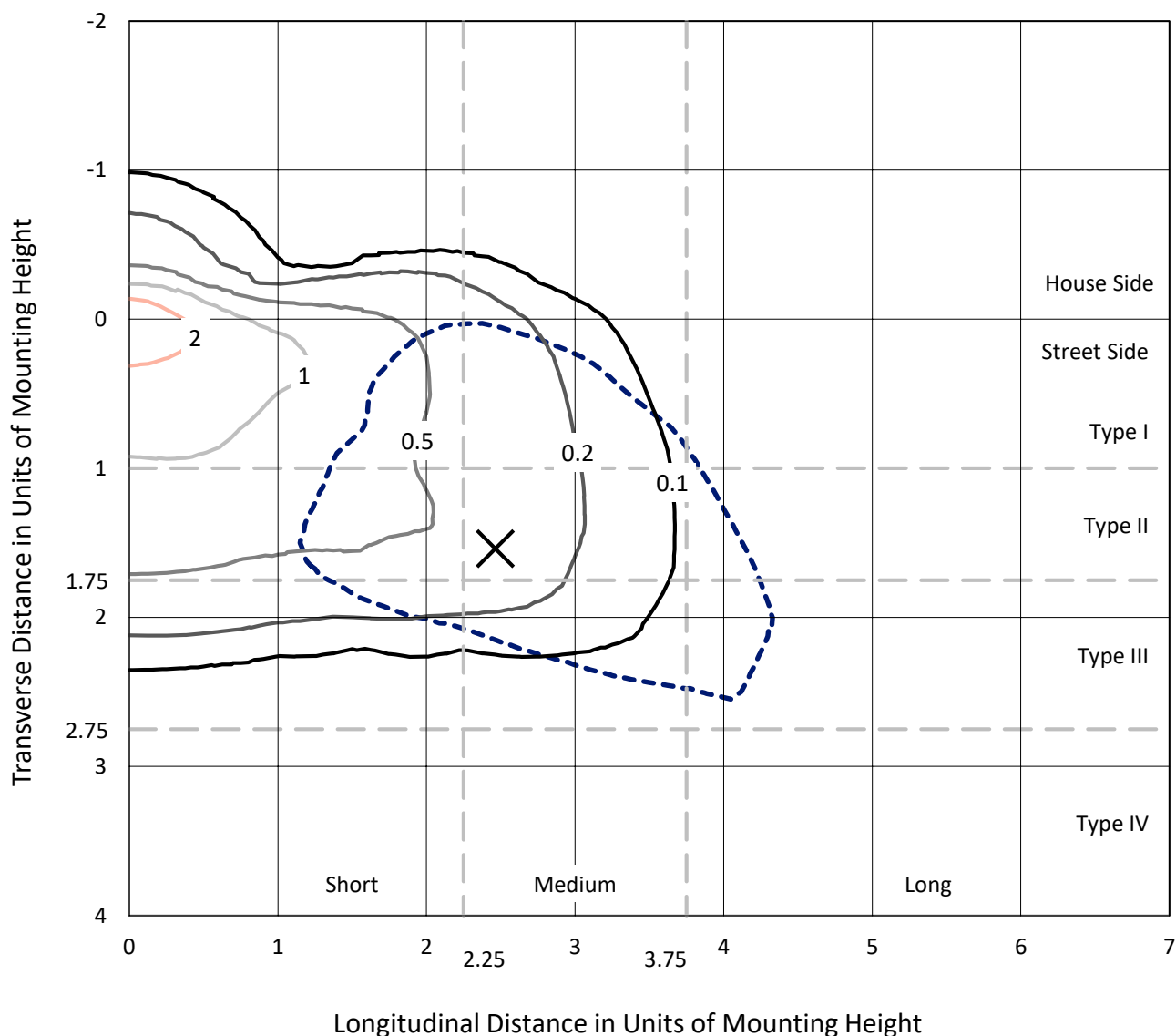
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

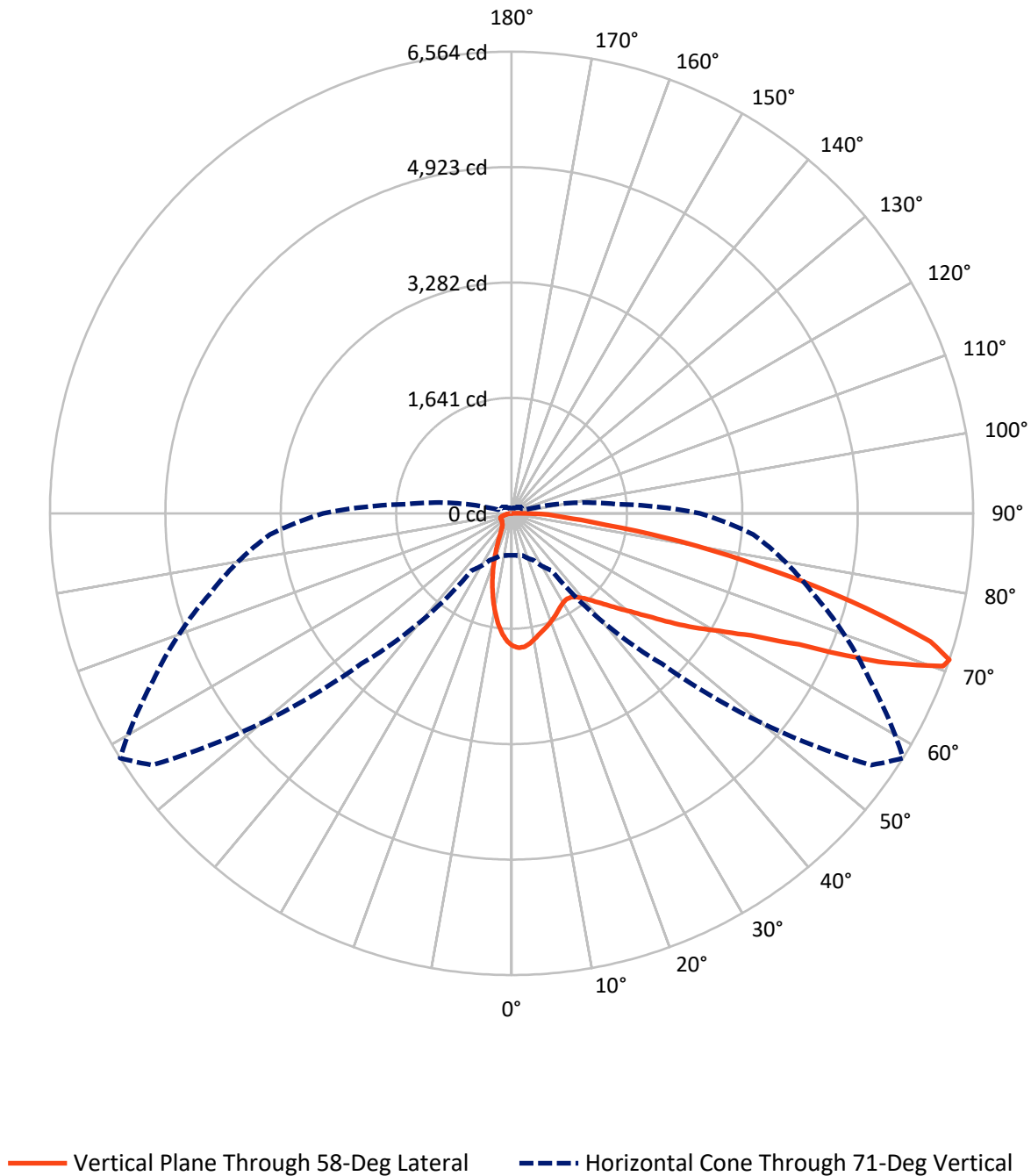
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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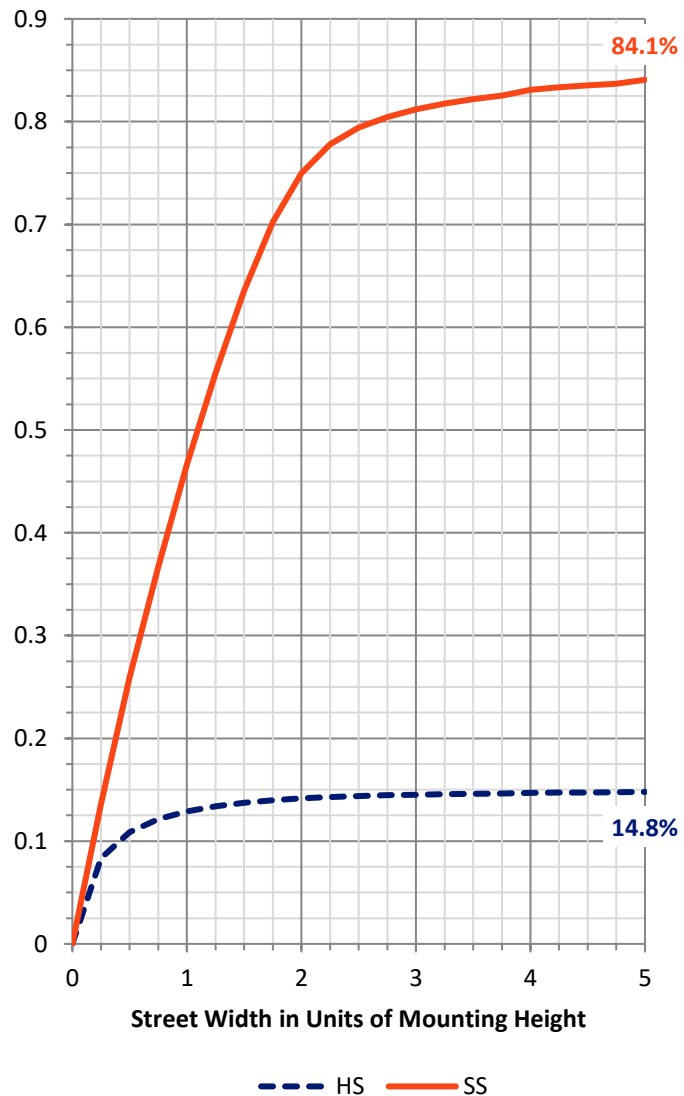
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.8	0.0	1015.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5778.2	0.0	5778.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	6794.0	0.0	6794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	2.4
10°-20°	361.1	5.3
20°-30°	458.9	6.8
30°-40°	584.6	8.6
40°-50°	829.0	12.2
50°-60°	1282.8	18.9
60°-70°	1746.4	25.7
70°-80°	1165.1	17.1
80°-90°	203.7	3.0
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°	6794.0	100.0
0°-180°	6794.0	100.0

Coefficient of Utilization



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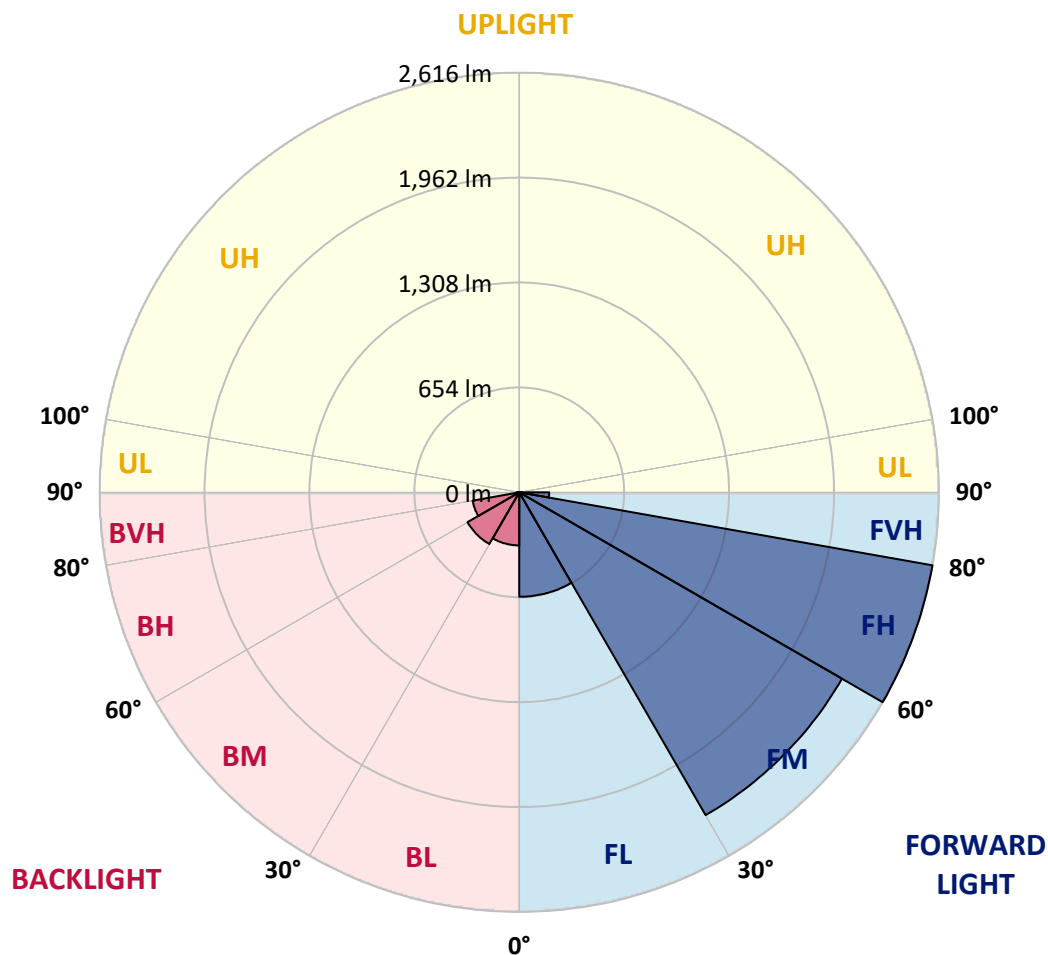
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	651.3	9.6			
FM	(30°-60°)	2323.9	34.2			
FH	(60°-80°)	2616.3	38.5			G2/5000
FVH	(80°-90°)	186.8	2.7			G2/225
BL	(0°-30°)	331.1	4.9	B1/500		
BM	(30°-60°)	372.5	5.5	B1/1000		
BH	(60°-80°)	295.2	4.3	B1/500		G1/500
BVH	(80°-90°)	16.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4
2.5°	1932.3	1929.7	1930.7	1928.8	1924.3	1919.8	1913.2	1914.3	1905.1	1891.4	1874.3
5°	1895.9	1894.9	1902.0	1906.1	1909.4	1906.8	1904.9	1907.2	1893.8	1874.8	1845.2
7.5°	1819.4	1809.0	1818.0	1831.5	1844.3	1854.0	1866.8	1868.4	1859.9	1840.0	1801.2
10°	1710.8	1700.9	1714.1	1735.2	1760.7	1783.9	1809.7	1814.5	1816.1	1798.1	1751.0
12.5°	1598.2	1590.6	1603.8	1633.4	1675.8	1711.5	1752.7	1759.8	1774.5	1762.4	1704.7
15°	1497.3	1494.5	1510.6	1539.7	1588.5	1643.1	1702.5	1715.5	1740.4	1736.4	1668.5
17.5°	1410.3	1409.5	1421.9	1452.4	1506.3	1575.4	1652.6	1674.6	1711.5	1716.3	1638.6
20°	1345.4	1344.0	1352.5	1375.0	1430.6	1508.9	1598.6	1628.9	1682.2	1698.7	1607.9
22.5°	1310.6	1310.4	1310.6	1321.3	1366.7	1439.6	1546.1	1583.0	1653.5	1684.8	1573.8
25°	1304.7	1304.0	1298.8	1297.6	1323.4	1381.6	1494.0	1534.7	1626.3	1675.1	1541.4
27.5°	1320.1	1321.0	1314.2	1303.0	1308.3	1343.5	1448.8	1492.4	1604.6	1673.2	1518.9
30°	1352.0	1351.6	1345.6	1334.1	1323.9	1329.3	1416.6	1460.2	1589.9	1681.5	1503.5
32.5°	1387.3	1389.9	1388.7	1382.3	1367.2	1345.4	1406.9	1449.5	1585.6	1701.3	1496.9
35°	1429.7	1432.5	1441.0	1446.0	1428.2	1393.2	1427.8	1464.7	1597.9	1738.7	1507.5
37.5°	1469.9	1477.2	1501.1	1522.2	1507.0	1468.0	1483.1	1509.4	1636.0	1797.7	1536.2
40°	1516.3	1522.7	1561.7	1606.4	1604.1	1563.6	1572.4	1589.9	1703.2	1882.2	1588.0
42.5°	1562.0	1574.7	1631.3	1694.7	1712.9	1677.2	1691.2	1700.4	1797.9	1994.1	1678.4
45°	1622.8	1636.5	1715.1	1791.5	1834.1	1814.0	1836.2	1839.8	1916.9	2146.5	1809.7
47.5°	1714.8	1730.5	1822.0	1902.3	1967.4	1969.5	2006.2	2004.7	2065.6	2320.9	1975.2
50°	1858.3	1880.7	1955.8	2030.8	2109.8	2153.8	2202.8	2196.0	2243.8	2506.7	2165.7
52.5°	2046.2	2056.6	2112.2	2167.6	2265.8	2364.5	2434.8	2428.6	2445.9	2697.7	2382.0
55°	2240.9	2248.7	2271.7	2302.0	2434.0	2595.0	2743.6	2733.9	2690.1	2896.0	2595.7
57.5°	2416.1	2431.9	2447.8	2460.3	2603.5	2835.9	3059.5	3060.2	2955.2	3109.9	2816.5
60°	2443.3	2457.2	2562.1	2661.0	2893.4	3157.3	3397.7	3390.6	3229.5	3342.1	3062.6
62.5°	2159.8	2191.2	2366.4	2629.5	3172.7	3745.1	3829.2	3820.4	3557.5	3628.2	3349.2
65°	1547.8	1583.5	1794.8	2190.3	3037.3	4392.9	4607.8	4489.9	4004.8	3980.1	3684.8
67.5°	892.9	901.4	993.0	1310.6	2312.6	4426.7	5795.6	5630.6	4699.4	4379.4	3849.0
70°	660.3	660.0	681.8	806.5	1251.5	3612.8	6360.5	6508.4	5430.6	4510.7	3616.9
71°	597.1	597.8	622.2	734.1	991.1	3024.0	6240.5	6564.2	5623.3	4445.9	3448.8
72.5°	510.7	513.1	546.9	658.4	833.8	2085.4	5723.6	6229.1	5714.6	4285.9	3185.9
75°	387.4	392.9	439.7	555.0	762.0	1057.6	4200.7	4974.1	5076.6	3781.8	2367.3
77.5°	276.4	282.6	335.6	466.7	724.4	797.1	2813.2	3628.2	3735.9	2423.6	1067.8
80°	174.7	182.0	222.0	371.3	680.6	756.8	1767.8	2438.8	2037.2	775.5	271.7
82.5°	102.5	108.2	137.7	242.6	555.9	728.9	1040.1	1351.8	792.8	234.3	123.5
85°	59.4	62.0	85.9	154.5	403.7	688.0	764.2	755.7	344.1	114.5	58.5
87.5°	27.7	30.8	50.9	80.7	224.1	498.6	604.0	521.8	213.9	53.7	27.5
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°	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4
2.5°	1866.1	1862.0	1845.2	1830.3	1814.7	1794.4	1771.9	1769.0	1755.3	1757.9	1753.2
5°	1829.1	1819.0	1778.5	1741.8	1698.5	1659.7	1617.6	1598.2	1570.2	1568.3	1561.2
7.5°	1776.4	1757.4	1694.7	1625.1	1555.6	1489.3	1423.7	1380.7	1336.7	1318.0	1316.3
10°	1717.0	1684.8	1592.5	1489.5	1389.2	1292.4	1198.7	1129.3	1066.9	1037.3	1036.1
12.5°	1660.6	1613.1	1486.5	1346.4	1209.1	1083.7	955.2	864.0	785.7	759.4	748.3
15°	1612.8	1545.9	1383.3	1204.1	1037.5	863.3	717.1	621.2	548.8	523.7	519.0
17.5°	1566.5	1480.3	1277.5	1060.5	859.1	667.6	521.1	449.9	411.3	401.1	400.9
20°	1520.3	1412.9	1167.0	913.5	686.6	499.4	400.7	368.7	355.7	354.5	352.6
22.5°	1468.0	1341.4	1050.8	766.1	535.8	392.6	340.6	327.8	326.1	330.4	330.4
25°	1419.0	1270.4	932.9	621.7	416.8	327.5	304.1	301.5	306.0	313.6	314.3
27.5°	1373.3	1202.0	817.9	493.4	333.9	288.5	278.8	281.9	289.9	298.7	298.9
30°	1335.7	1137.4	706.2	388.8	282.1	259.4	257.7	263.9	272.6	279.5	281.2
32.5°	1306.6	1082.2	598.3	312.6	248.3	237.6	239.0	244.2	249.7	253.5	256.1
35°	1293.1	1034.9	498.6	263.6	226.7	220.8	222.7	225.5	227.9	230.7	232.9
37.5°	1295.5	998.2	409.7	233.1	212.3	209.2	209.2	209.2	209.2	210.6	210.9
40°	1317.5	977.2	337.2	213.7	202.6	199.3	196.7	194.3	192.4	193.4	192.9
42.5°	1373.8	975.3	284.2	201.4	194.8	189.3	184.1	180.8	178.4	179.4	179.9
45°	1469.4	998.9	248.5	192.6	187.4	179.2	172.5	169.0	167.3	170.4	170.9
47.5°	1593.2	1050.5	226.7	186.3	180.6	169.7	162.6	159.3	159.7	164.2	165.4
50°	1752.7	1134.3	216.3	182.2	175.8	161.6	154.3	151.5	152.9	159.3	160.7
52.5°	1927.8	1255.0	217.5	181.0	172.8	155.7	147.9	144.6	147.0	152.9	154.1
55°	2129.9	1400.1	237.1	182.7	168.3	151.9	142.7	137.0	138.9	144.4	145.3
57.5°	2354.5	1566.2	276.7	182.2	162.6	148.4	137.3	128.7	130.2	133.5	134.4
60°	2588.3	1766.9	338.0	183.6	160.0	144.1	129.9	119.3	118.8	121.6	122.1
62.5°	2869.0	1999.1	408.0	184.6	161.6	138.7	120.2	109.8	108.4	109.1	109.6
65°	3158.2	2167.1	381.7	180.8	166.8	134.2	111.7	100.6	98.0	97.5	97.7
67.5°	3167.2	1987.0	267.7	173.2	169.0	131.8	105.3	92.8	88.5	86.9	86.6
70°	2840.4	1614.3	208.5	165.2	160.5	128.0	99.4	86.4	80.0	77.4	77.2
71°	2680.9	1486.0	197.6	161.2	154.1	124.2	96.8	83.5	76.9	74.1	73.6
72.5°	2430.7	1332.2	184.4	154.8	141.8	114.5	91.8	79.5	72.7	69.3	68.6
75°	1744.4	871.1	158.3	138.0	117.4	91.4	80.5	71.5	65.6	61.5	61.1
77.5°	672.1	346.7	119.7	114.8	89.9	71.5	66.3	61.8	57.5	53.5	53.2
80°	207.8	155.0	87.3	86.4	65.1	53.2	51.6	50.4	48.8	44.5	43.5
82.5°	111.0	89.0	60.1	55.9	42.6	35.5	37.4	37.9	38.1	33.6	33.1
85°	53.0	47.1	33.8	31.7	24.8	19.9	23.0	24.8	25.1	20.6	19.2
87.5°	25.3	24.6	15.9	12.1	9.2	6.6	8.0	9.9	10.9	7.8	6.9
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)