

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: P319107

Luminaire Tested: **GAN-SA3A-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319107
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-SA3A-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14127 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

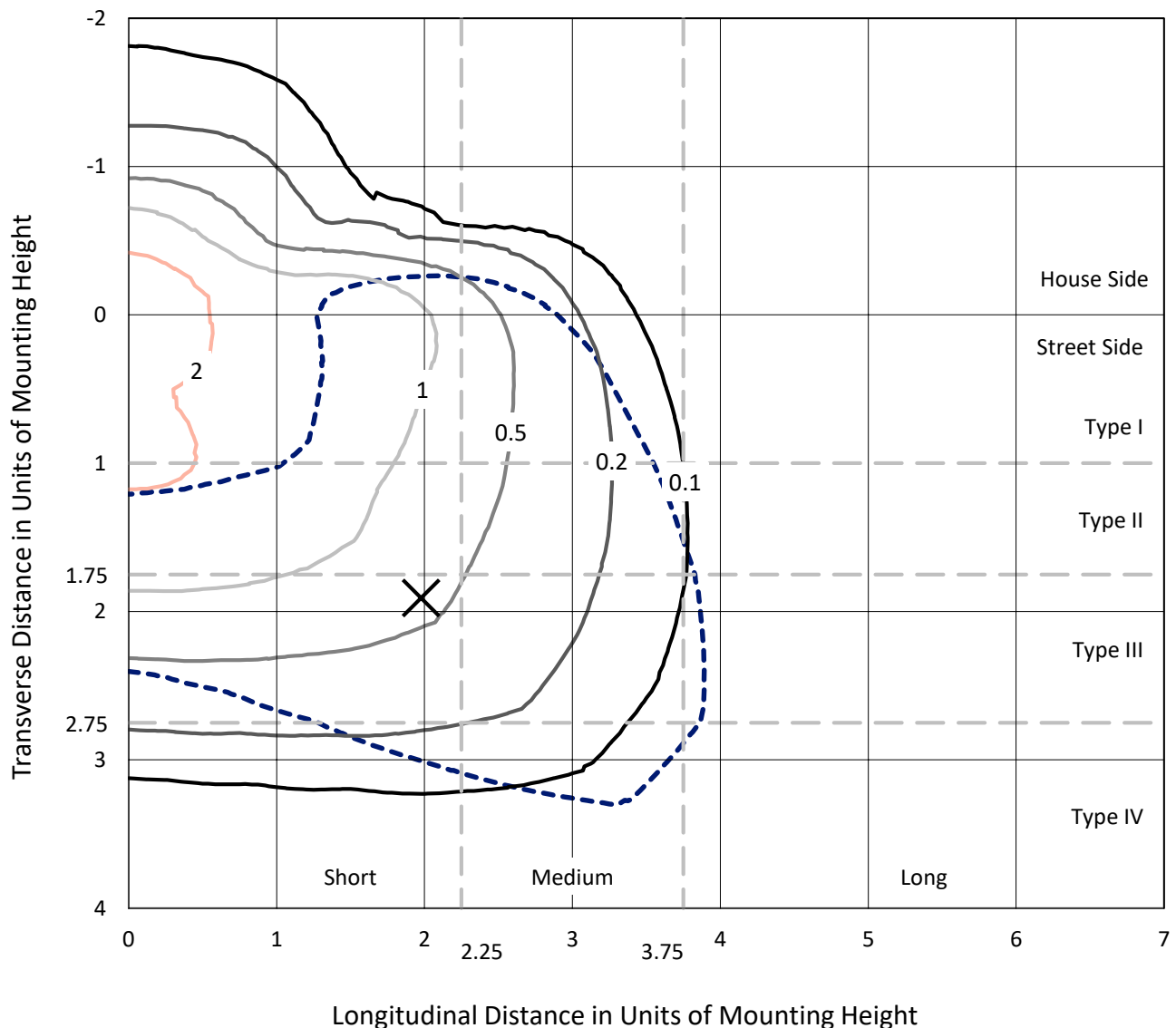
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

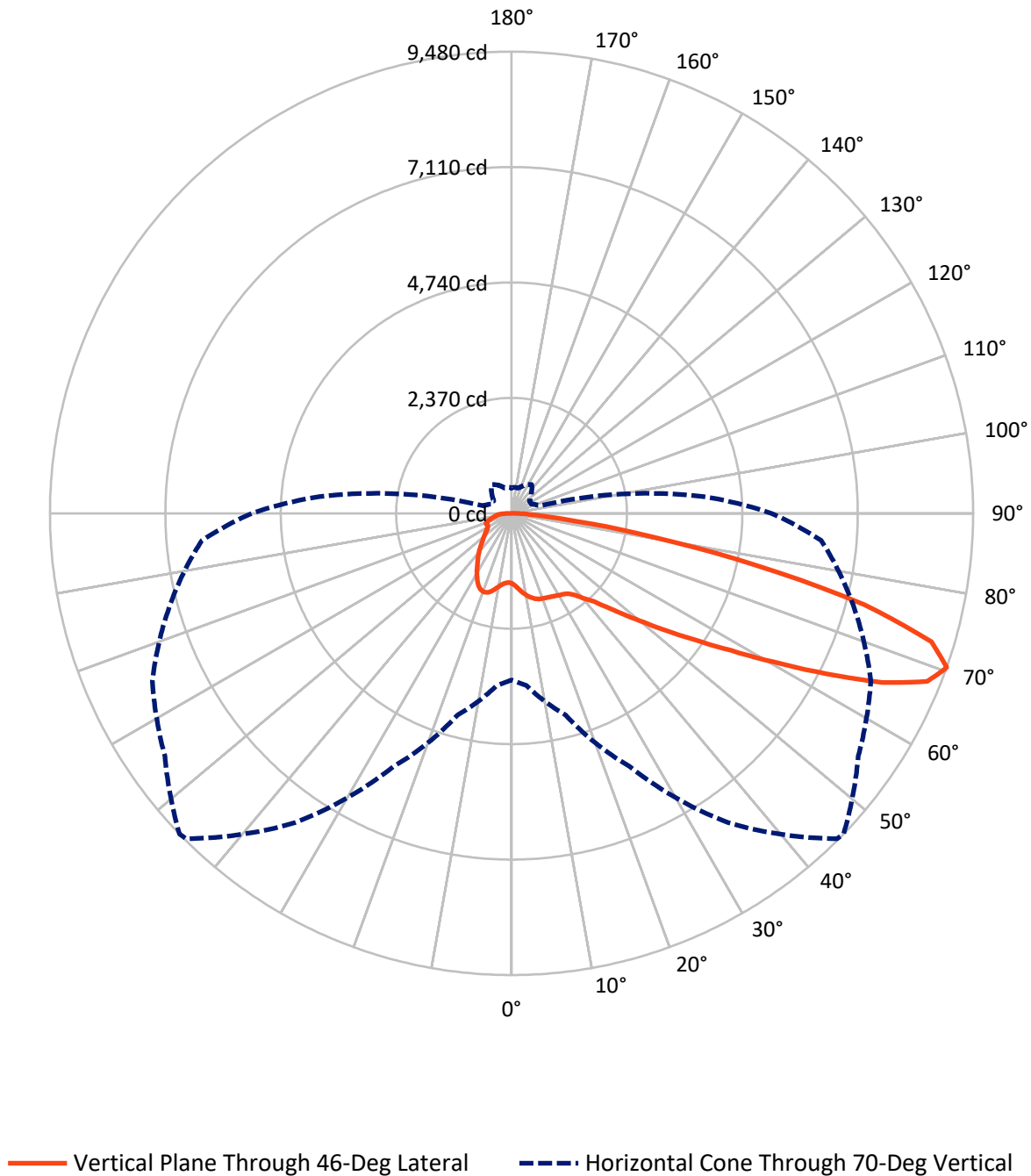
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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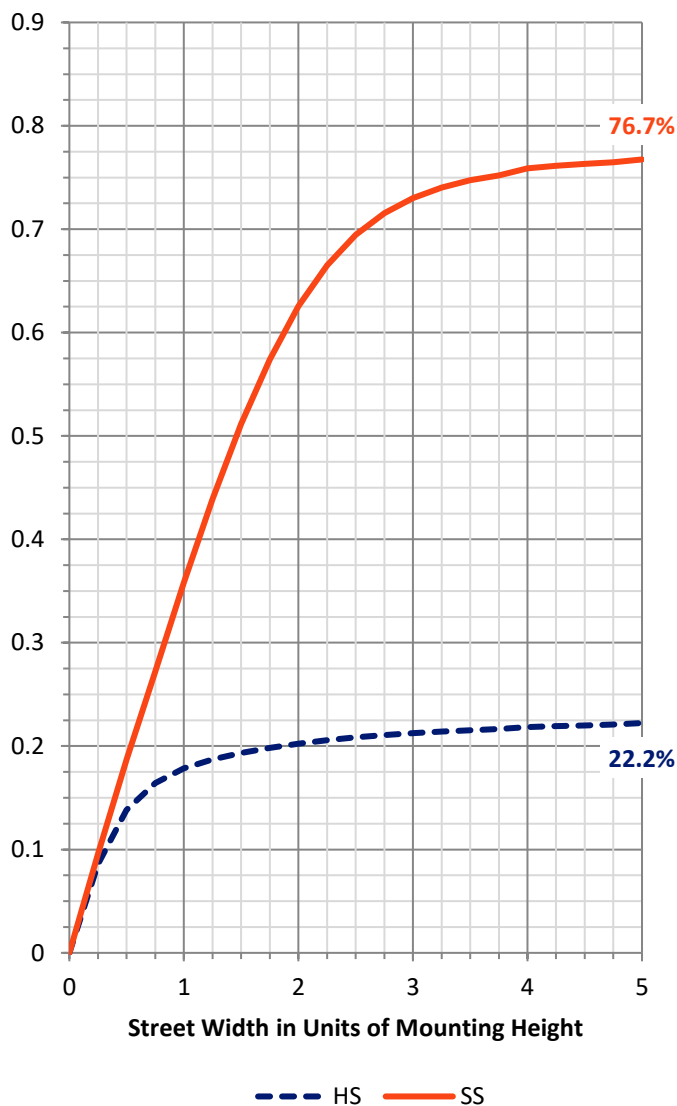
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3237.9	0.0	3237.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10889.1	0.0	10889.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	14127.0	0.0	14127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	1.0
10°-20°	488.8	3.5
20°-30°	815.1	5.8
30°-40°	1156.6	8.2
40°-50°	1701.4	12.0
50°-60°	2881.2	20.4
60°-70°	4089.9	29.0
70°-80°	2484.6	17.6
80°-90°	362.6	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°	14127.0	100.0
0°-180°	14127.0	100.0

Coefficient of Utilization



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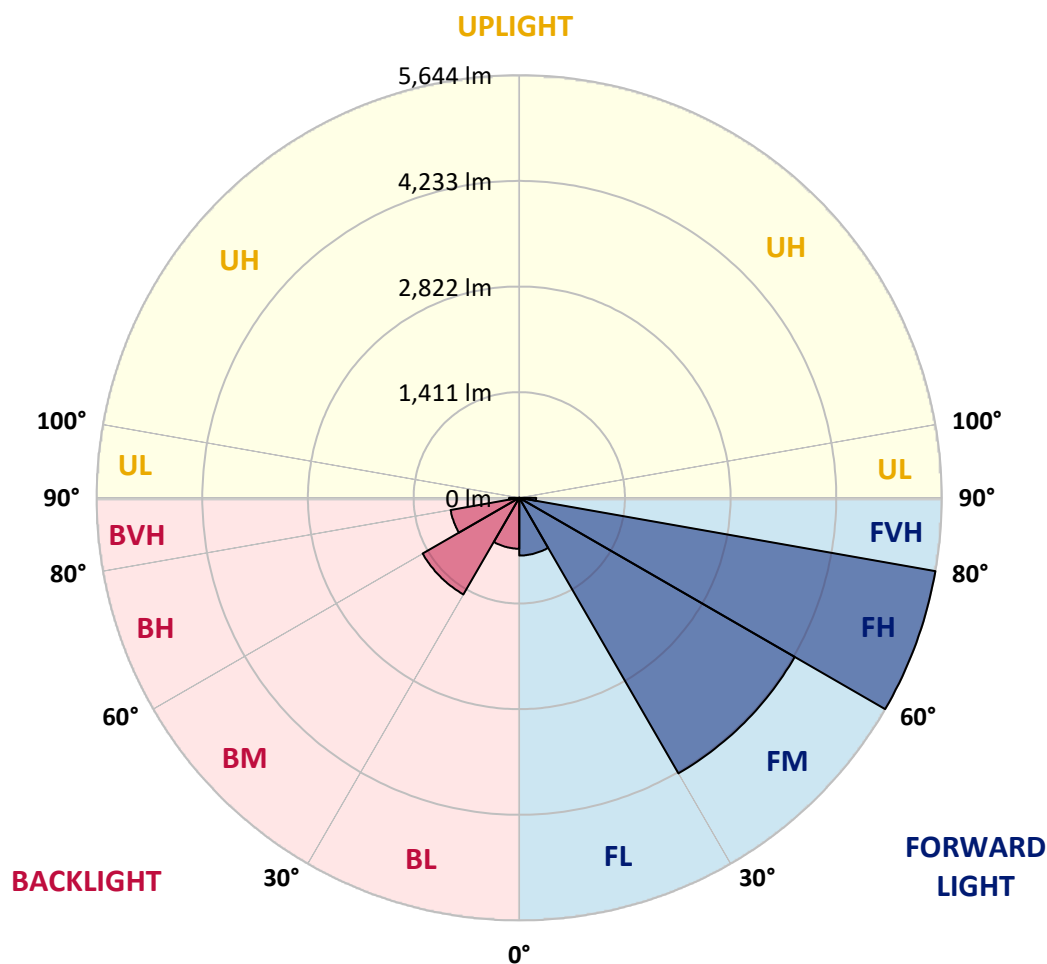
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	770.8	5.5			
FM	(30°-60°)	4248.8	30.1			
FH	(60°-80°)	5643.7	39.9			G3/7500
FVH	(80°-90°)	225.9	1.6			G3/500
BL	(0°-30°)	679.8	4.8	B2/1000		
BM	(30°-60°)	1490.5	10.6	B2/2500		
BH	(60°-80°)	930.9	6.6	B2/1000		G2/1000
BVH	(80°-90°)	136.7	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°	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3
2.5°	1511.3	1512.3	1514.2	1509.4	1495.8	1492.0	1490.5	1476.5	1467.3	1453.8	1442.2
5°	1632.2	1633.1	1630.2	1616.7	1586.7	1564.5	1562.5	1530.6	1501.6	1470.7	1447.5
7.5°	1758.3	1759.8	1750.6	1725.0	1682.9	1644.3	1641.8	1598.3	1554.3	1507.4	1472.6
10°	1870.0	1864.2	1849.2	1813.5	1763.7	1716.3	1714.4	1668.9	1618.1	1561.6	1515.2
12.5°	1944.5	1939.6	1920.3	1876.8	1822.2	1778.7	1774.8	1732.7	1683.4	1621.5	1565.9
15°	1985.6	1989.0	1962.9	1913.5	1860.4	1823.6	1820.2	1790.3	1746.3	1683.9	1620.1
17.5°	1990.9	1993.8	1968.7	1919.8	1876.3	1851.2	1849.7	1829.9	1798.0	1738.0	1671.3
20°	1960.0	1961.9	1941.1	1901.0	1872.4	1864.7	1864.2	1855.5	1831.8	1778.7	1713.9
22.5°	1915.0	1916.4	1901.5	1872.4	1862.8	1874.9	1878.2	1874.9	1857.9	1808.1	1747.2
25°	1903.9	1902.9	1887.4	1857.9	1866.2	1891.8	1896.1	1897.6	1886.0	1842.5	1789.8
27.5°	1957.5	1954.2	1924.7	1877.3	1882.6	1913.5	1919.3	1933.4	1926.1	1887.9	1838.1
30°	2112.7	2106.9	2046.5	1950.8	1924.7	1940.6	1947.9	1970.1	1971.6	1939.6	1902.4
32.5°	2374.8	2367.5	2259.2	2088.1	1995.7	1968.2	1974.9	2008.3	2026.2	2001.5	1961.4
35°	2705.9	2697.7	2555.6	2321.6	2114.7	2020.9	2025.7	2052.3	2088.1	2053.3	2000.1
37.5°	3051.1	3031.3	2894.5	2596.2	2303.7	2133.5	2133.5	2136.9	2153.8	2081.3	2045.5
40°	3394.4	3374.6	3250.8	2919.1	2548.3	2310.9	2299.8	2224.9	2211.4	2149.0	2136.9
42.5°	3713.5	3707.7	3634.7	3284.2	2835.5	2485.5	2470.0	2342.9	2345.8	2307.1	2307.6
45°	4052.9	4052.9	3993.4	3652.6	3170.1	2765.9	2750.4	2563.3	2592.3	2574.4	2617.5
47.5°	4329.9	4338.6	4330.4	4036.4	3559.2	3122.2	3094.2	2868.9	2950.1	3011.5	3136.7
50°	4612.7	4626.2	4627.7	4457.5	4029.7	3545.7	3513.8	3274.5	3455.8	3631.8	3877.8
52.5°	5023.2	5053.6	4932.3	4877.6	4605.9	4048.5	4017.1	3796.1	4098.8	4345.8	4769.8
55°	5403.6	5377.1	5290.5	5324.4	5222.8	4620.9	4597.2	4403.4	4815.3	5136.3	5687.0
57.5°	5609.6	5607.7	5694.7	5839.7	5888.1	5326.8	5307.0	5118.4	5623.1	5864.4	6548.0
60°	5851.3	5854.7	6070.3	6399.6	6598.8	6205.7	6197.0	6053.9	6407.8	6544.1	7223.4
62.5°	5885.2	5946.1	6317.4	6884.0	7264.0	7232.6	7251.9	6896.6	7109.8	7086.6	7727.6
65°	5496.0	5576.2	6248.3	7030.5	7925.4	8355.7	8373.6	7744.1	7663.3	7550.2	7908.0
67.5°	4698.3	4817.2	5547.2	6711.9	8143.4	9185.8	9210.9	8401.1	8122.6	7707.3	7473.8
70°	3419.0	3551.0	4285.9	5732.4	7754.7	9451.2	9479.7	8691.7	8140.0	7260.1	6380.2
72.5°	2065.3	2168.8	2774.6	4220.1	6545.1	8967.7	9018.5	8323.3	7431.8	6149.6	4711.3
75°	907.0	974.7	1341.6	2431.8	4685.7	7419.7	7483.0	7124.3	6038.4	4469.1	2784.7
77.5°	386.3	405.6	550.2	1056.4	2648.9	5070.1	5157.1	5205.4	4096.9	2431.8	1176.7
80°	240.8	248.5	311.3	478.1	1239.6	2847.6	2941.4	3062.7	2034.4	893.9	410.9
82.5°	146.5	155.2	206.9	289.1	645.4	1290.8	1335.8	1421.4	789.5	386.3	212.7
85°	88.0	94.3	126.7	182.7	367.4	507.6	507.2	560.8	371.8	248.5	112.2
87.5°	42.1	46.9	67.7	94.8	185.2	190.5	178.4	202.1	225.8	162.9	56.6
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°	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3
2.5°	1438.3	1436.4	1430.1	1425.2	1424.3	1421.4	1419.0	1420.4	1422.3	1422.8	1422.8
5°	1437.8	1432.5	1424.3	1420.9	1425.2	1431.0	1438.3	1448.0	1453.8	1458.1	1461.0
7.5°	1461.0	1450.9	1441.7	1439.7	1448.5	1463.9	1480.4	1500.7	1514.7	1524.4	1526.3
10°	1499.7	1487.1	1477.9	1479.9	1495.3	1517.6	1540.8	1566.9	1588.2	1601.2	1602.2
12.5°	1544.2	1532.1	1523.4	1531.6	1557.2	1584.3	1608.5	1631.2	1650.5	1663.6	1663.6
15°	1595.4	1586.7	1576.6	1595.4	1630.2	1654.4	1664.6	1675.7	1686.3	1696.0	1694.0
17.5°	1644.7	1636.5	1631.2	1653.4	1689.7	1700.8	1694.0	1685.8	1685.8	1691.1	1692.1
20°	1687.3	1680.0	1683.4	1705.2	1724.0	1712.4	1687.3	1661.2	1650.5	1653.4	1656.3
22.5°	1724.5	1721.1	1731.3	1741.4	1727.9	1687.3	1640.9	1605.6	1592.5	1591.6	1592.5
25°	1768.0	1767.5	1780.1	1761.7	1701.8	1626.8	1564.5	1530.2	1522.9	1528.7	1538.4
27.5°	1822.2	1827.5	1833.8	1766.6	1648.6	1535.5	1472.1	1448.5	1455.7	1469.7	1478.9
30°	1891.3	1905.8	1892.3	1754.5	1572.2	1431.0	1370.6	1363.8	1383.7	1403.5	1413.2
32.5°	1958.5	1981.2	1948.3	1723.1	1473.6	1320.3	1273.4	1271.5	1295.7	1315.0	1328.6
35°	2012.7	2057.6	1990.4	1660.7	1359.5	1218.3	1184.0	1170.9	1179.6	1202.4	1217.8
37.5°	2083.2	2158.2	2019.4	1565.4	1235.7	1134.2	1094.1	1064.1	1056.4	1065.5	1073.3
40°	2212.3	2311.4	2033.0	1432.5	1114.9	1050.1	1009.5	965.5	935.0	912.8	913.3
42.5°	2423.1	2511.1	2024.3	1271.0	1003.2	967.9	922.0	871.2	821.9	771.6	767.7
45°	2765.4	2807.9	1998.1	1099.9	905.0	881.8	838.8	788.0	722.3	665.2	659.9
47.5°	3313.2	3218.9	1957.5	950.5	818.5	808.8	769.2	710.7	641.1	595.1	591.3
50°	4060.1	3812.1	1937.7	831.6	742.1	745.0	712.6	650.7	585.0	551.1	547.3
52.5°	4953.5	4503.0	1975.9	739.7	680.7	690.9	666.7	608.7	553.6	527.0	523.1
55°	5880.3	5218.5	2017.0	673.0	622.7	642.5	634.3	586.4	536.6	512.0	508.6
57.5°	6673.7	5752.7	1934.8	618.8	571.0	601.9	609.2	572.4	527.9	505.7	501.8
60°	7173.1	5967.8	1719.2	568.1	529.9	569.5	594.7	568.6	531.3	529.4	526.5
62.5°	7410.0	5949.0	1395.8	527.9	504.3	555.5	605.3	590.3	570.0	587.4	588.9
65°	7303.7	5664.7	1039.4	501.3	485.9	560.8	637.2	631.4	581.1	598.5	600.9
67.5°	6603.6	4986.4	769.7	478.1	465.6	575.8	695.2	644.9	559.4	571.9	564.2
70°	5337.4	3953.3	593.7	452.0	444.8	573.9	721.3	636.7	535.7	538.6	517.8
72.5°	3680.6	2695.8	483.0	427.9	414.8	523.1	703.0	616.4	515.9	493.6	466.1
75°	2001.5	1447.0	410.5	402.7	362.1	459.3	669.1	601.9	498.0	468.5	453.0
77.5°	787.6	600.5	356.3	368.4	316.7	405.6	631.4	574.4	473.3	434.6	426.9
80°	321.5	306.5	295.4	318.6	272.2	354.9	586.0	542.0	443.8	403.2	387.7
82.5°	182.3	190.5	229.6	251.4	220.9	326.8	564.2	515.9	408.5	361.1	342.8
85°	93.3	111.7	160.0	180.3	162.4	278.0	519.7	451.6	327.8	276.5	278.0
87.5°	45.0	62.4	101.0	113.1	105.4	201.1	388.2	327.3	255.3	202.1	195.8
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)