

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: P318948

Luminaire Tested: **GAN-SA4A-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318948
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-SA4A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 15612 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

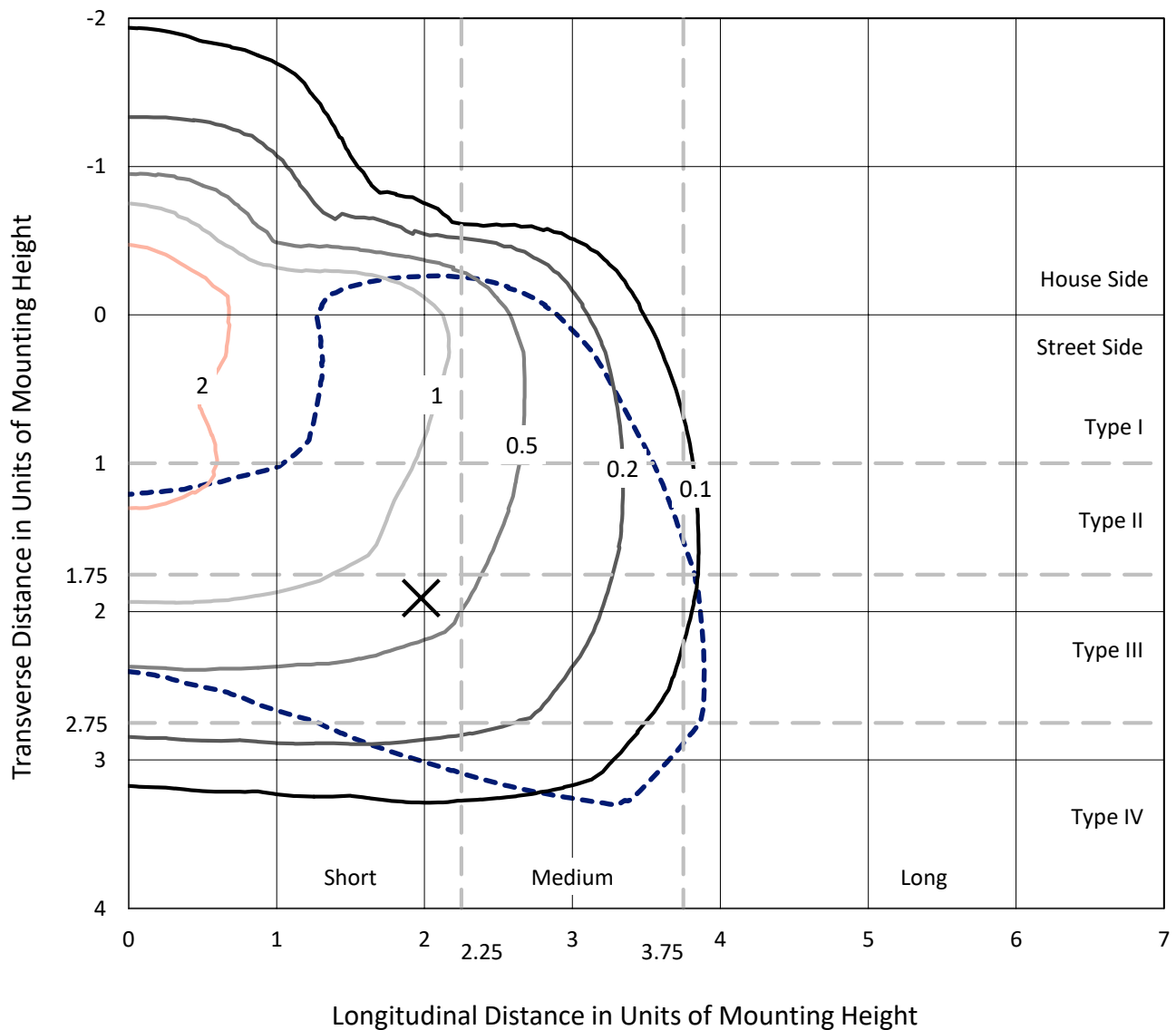
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

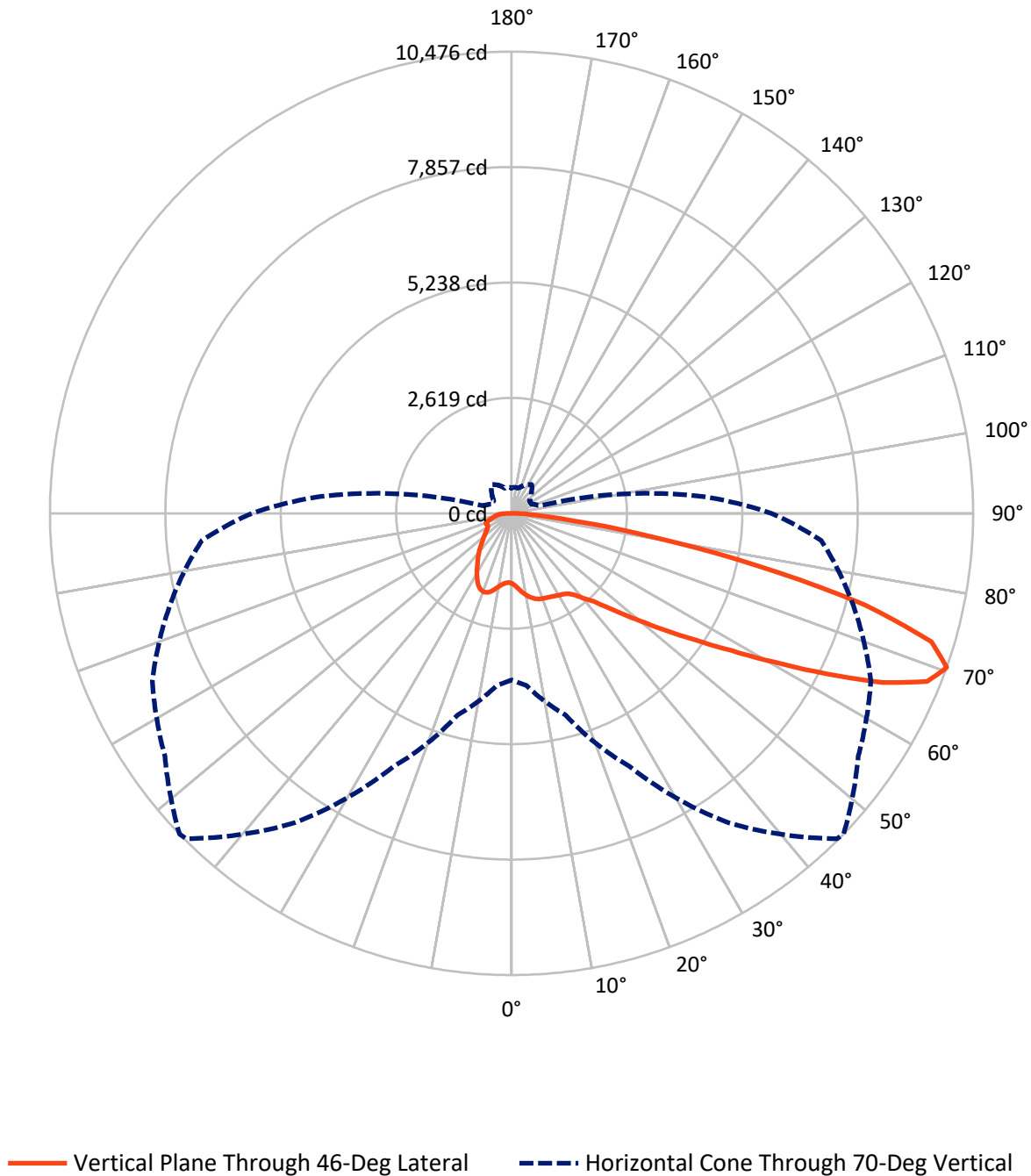
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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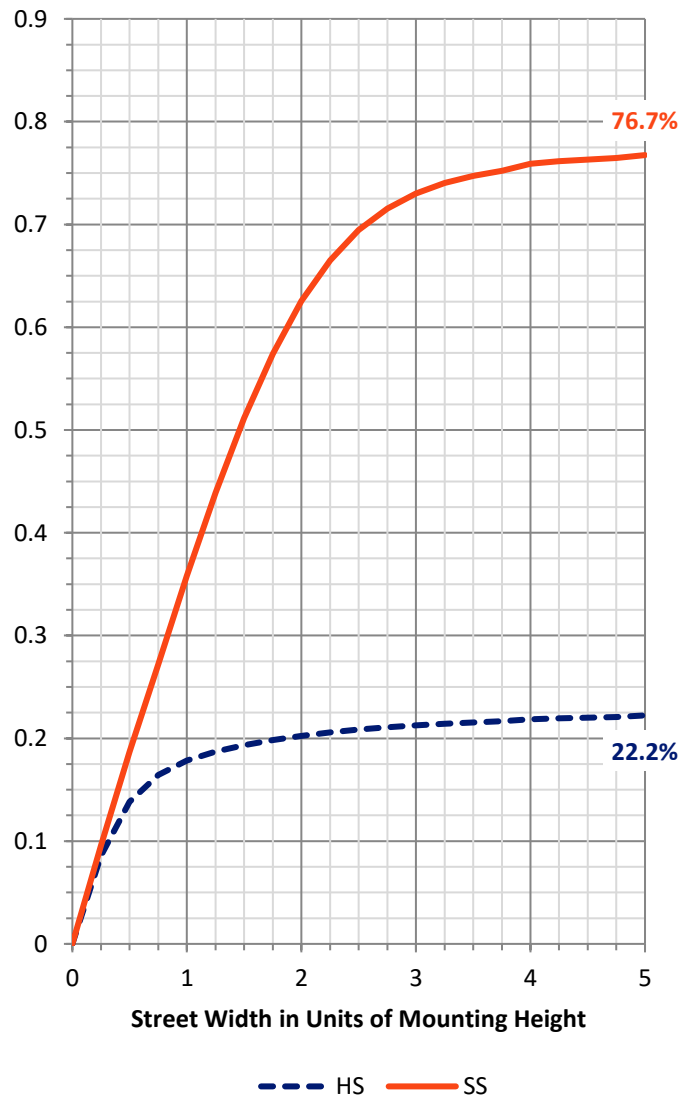
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3578.2	0.0	3578.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12033.8	0.0	12033.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	15612.0	0.0	15612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.0
10°-20°	540.2	3.5
20°-30°	900.8	5.8
30°-40°	1278.2	8.2
40°-50°	1880.2	12.0
50°-60°	3184.1	20.4
60°-70°	4519.8	29.0
70°-80°	2745.8	17.6
80°-90°	400.7	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°	15612.0	100.0
0°-180°	15612.0	100.0

Coefficient of Utilization



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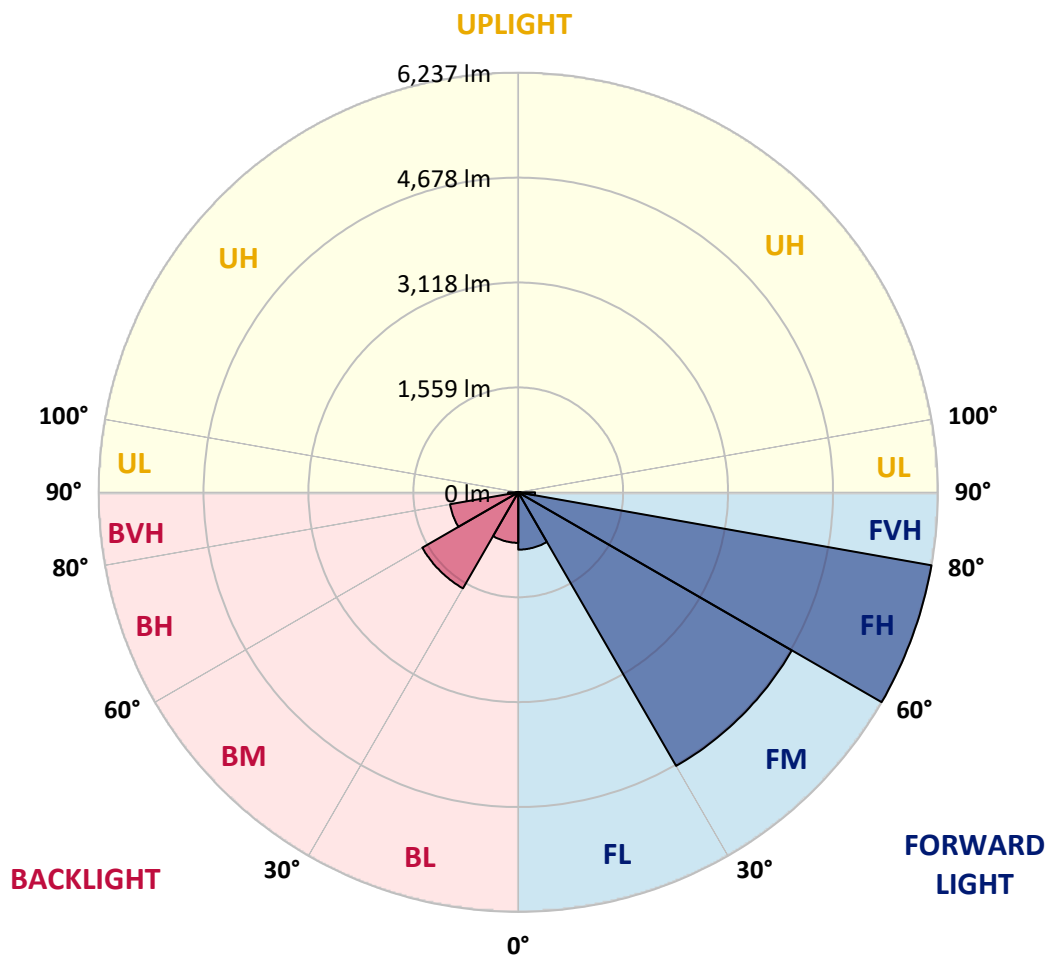
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.9	5.5			
FM	(30°-60°)	4695.4	30.1			
FH	(60°-80°)	6236.9	39.9			G3/7500
FVH	(80°-90°)	249.6	1.6			G3/500
BL	(0°-30°)	751.3	4.8	B2/1000		
BM	(30°-60°)	1647.2	10.6	B2/2500		
BH	(60°-80°)	1028.7	6.6	B3/2500		G3/2500
BVH	(80°-90°)	151.1	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1670.2	1671.2	1673.4	1668.0	1653.1	1648.8	1647.2	1631.7	1621.5	1606.6	1593.8
5°	1803.7	1804.8	1801.6	1786.6	1753.5	1728.9	1726.8	1691.5	1659.5	1625.3	1599.6
7.5°	1943.2	1944.8	1934.6	1906.3	1859.8	1817.1	1814.4	1766.3	1717.7	1665.9	1627.4
10°	2066.6	2060.2	2043.6	2004.1	1949.1	1896.7	1894.6	1844.3	1788.2	1725.7	1674.4
12.5°	2148.9	2143.5	2122.2	2074.1	2013.7	1965.6	1961.3	1914.9	1860.4	1792.0	1730.5
15°	2194.3	2198.0	2169.2	2114.7	2055.9	2015.3	2011.6	1978.4	1929.8	1860.9	1790.4
17.5°	2200.2	2203.4	2175.6	2121.6	2073.5	2045.8	2044.2	2022.3	1987.0	1920.7	1847.0
20°	2166.0	2168.1	2145.1	2100.8	2069.3	2060.7	2060.2	2050.6	2024.4	1965.6	1894.0
22.5°	2116.3	2117.9	2101.3	2069.3	2058.6	2071.9	2075.7	2071.9	2053.2	1998.2	1930.9
25°	2104.0	2102.9	2085.8	2053.2	2062.3	2090.6	2095.5	2097.1	2084.2	2036.1	1977.9
27.5°	2163.3	2159.6	2127.0	2074.6	2080.5	2114.7	2121.1	2136.6	2128.6	2086.4	2031.3
30°	2334.8	2328.4	2261.6	2155.8	2127.0	2144.6	2152.6	2177.2	2178.8	2143.5	2102.4
32.5°	2624.4	2616.4	2496.7	2307.6	2205.5	2175.1	2182.5	2219.4	2239.2	2211.9	2167.6
35°	2990.4	2981.3	2824.2	2565.6	2336.9	2233.3	2238.6	2268.0	2307.6	2269.1	2210.3
37.5°	3371.9	3349.9	3198.7	2869.1	2545.9	2357.8	2357.8	2361.5	2380.2	2300.1	2260.5
40°	3751.2	3729.3	3592.5	3226.0	2816.2	2553.9	2541.6	2458.8	2443.8	2374.9	2361.5
42.5°	4103.8	4097.4	4016.7	3629.4	3133.6	2746.7	2729.6	2589.1	2592.3	2549.6	2550.1
45°	4478.9	4478.9	4413.2	4036.5	3503.3	3056.6	3039.5	2832.8	2864.8	2845.1	2892.6
47.5°	4785.0	4794.6	4785.6	4460.7	3933.4	3450.4	3419.4	3170.4	3260.2	3328.0	3466.4
50°	5097.6	5112.5	5114.1	4926.1	4453.2	3918.4	3883.2	3618.7	3819.0	4013.5	4285.5
52.5°	5551.2	5584.8	5450.7	5390.4	5090.1	4474.1	4439.3	4195.2	4529.6	4802.7	5271.2
55°	5971.7	5942.3	5846.6	5884.0	5771.8	5106.7	5080.5	4866.2	5321.4	5676.2	6284.8
57.5°	6199.3	6197.1	6293.3	6453.6	6507.0	5886.7	5864.8	5656.4	6214.2	6480.8	7236.3
60°	6466.4	6470.2	6708.4	7072.3	7292.4	6858.0	6848.4	6690.3	7081.4	7232.0	7982.7
62.5°	6503.8	6571.1	6981.5	7607.6	8027.6	7992.9	8014.2	7621.5	7857.1	7831.5	8540.0
65°	6073.7	6162.4	6905.1	7769.5	8758.5	9234.0	9253.8	8558.1	8468.9	8343.9	8739.2
67.5°	5192.2	5323.6	6130.4	7417.4	8999.4	10151.4	10179.1	9284.2	8976.5	8517.5	8259.5
70°	3778.4	3924.3	4736.4	6335.0	8569.9	10444.7	10476.2	9605.3	8995.7	8023.3	7050.9
72.5°	2282.5	2396.8	3066.2	4663.7	7233.1	9910.4	9966.5	9198.2	8213.0	6796.1	5206.6
75°	1002.3	1077.1	1482.6	2687.4	5178.3	8199.6	8269.6	7873.2	6673.2	4938.9	3077.5
77.5°	426.9	448.3	608.0	1167.4	2927.3	5603.0	5699.2	5752.6	4527.5	2687.4	1300.4
80°	266.1	274.6	344.1	528.4	1369.9	3146.9	3250.6	3384.7	2248.3	987.9	454.1
82.5°	161.9	171.5	228.7	319.5	713.3	1426.5	1476.2	1570.8	872.5	426.9	235.1
85°	97.2	104.2	140.0	202.0	406.1	561.0	560.5	619.8	410.9	274.6	124.0
87.5°	46.5	51.8	74.8	104.7	204.6	210.5	197.2	223.3	249.5	180.1	62.5
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°	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1589.5	1587.4	1580.4	1575.1	1574.0	1570.8	1568.1	1569.7	1571.9	1572.4	1572.4
5°	1589.0	1583.1	1574.0	1570.3	1575.1	1581.5	1589.5	1600.2	1606.6	1611.4	1614.6
7.5°	1614.6	1603.4	1593.2	1591.1	1600.7	1617.8	1636.0	1658.4	1673.9	1684.6	1686.7
10°	1657.3	1643.5	1633.3	1635.4	1652.5	1677.1	1702.8	1731.6	1755.1	1769.5	1770.6
12.5°	1706.5	1693.1	1683.5	1692.6	1720.9	1750.8	1777.6	1802.7	1824.0	1838.5	1838.5
15°	1763.1	1753.5	1742.3	1763.1	1801.6	1828.3	1839.5	1851.8	1863.6	1874.3	1872.1
17.5°	1817.6	1808.5	1802.7	1827.2	1867.3	1879.6	1872.1	1863.0	1863.0	1868.9	1870.0
20°	1864.6	1856.6	1860.4	1884.4	1905.2	1892.4	1864.6	1835.8	1824.0	1827.2	1830.4
22.5°	1905.8	1902.0	1913.3	1924.5	1909.5	1864.6	1813.4	1774.4	1759.9	1758.9	1759.9
25°	1953.9	1953.3	1967.2	1946.9	1880.7	1797.9	1728.9	1691.0	1683.0	1689.4	1700.1
27.5°	2013.7	2019.6	2026.5	1952.3	1821.9	1696.9	1626.9	1600.7	1608.7	1624.2	1634.4
30°	2090.1	2106.1	2091.2	1938.9	1737.5	1581.5	1514.7	1507.2	1529.1	1551.0	1561.7
32.5°	2164.4	2189.5	2153.2	1904.2	1628.5	1459.1	1407.3	1405.2	1431.9	1453.2	1468.2
35°	2224.2	2273.9	2199.6	1835.3	1502.4	1346.4	1308.5	1294.0	1303.6	1328.8	1345.9
37.5°	2302.2	2385.0	2231.7	1730.0	1365.6	1253.4	1209.1	1176.0	1167.4	1177.6	1186.1
40°	2444.9	2554.4	2246.7	1583.1	1232.1	1160.5	1115.6	1067.0	1033.3	1008.7	1009.3
42.5°	2677.8	2775.1	2237.0	1404.6	1108.6	1069.6	1018.9	962.8	908.3	852.7	848.4
45°	3056.1	3103.1	2208.2	1215.5	1000.2	974.5	927.0	870.9	798.2	735.2	729.3
47.5°	3661.4	3557.2	2163.3	1050.4	904.5	893.9	850.0	785.4	708.5	657.7	653.4
50°	4486.9	4212.8	2141.4	919.0	820.1	823.3	787.5	719.1	646.5	609.1	604.8
52.5°	5474.3	4976.3	2183.6	817.5	752.3	763.5	736.8	672.7	611.8	582.4	578.1
55°	6498.5	5767.0	2229.0	743.7	688.2	710.1	701.0	648.1	593.1	565.8	562.1
57.5°	7375.2	6357.4	2138.2	683.9	631.0	665.2	673.2	632.6	583.4	558.9	554.6
60°	7927.1	6595.2	1899.9	627.8	585.6	629.4	657.2	628.3	587.2	585.0	581.8
62.5°	8188.9	6574.3	1542.5	583.4	557.3	613.9	668.9	652.4	629.9	649.2	650.8
65°	8071.4	6260.2	1148.7	554.1	537.0	619.8	704.2	697.8	642.2	661.4	664.1
67.5°	7297.8	5510.6	850.6	528.4	514.5	636.3	768.3	712.7	618.2	632.1	623.5
70°	5898.5	4368.8	656.1	499.6	491.5	634.2	797.1	703.6	592.0	595.2	572.2
72.5°	4067.5	2979.2	533.7	472.8	458.4	578.1	776.8	681.2	570.1	545.5	515.0
75°	2211.9	1599.1	453.6	445.1	400.2	507.6	739.4	665.2	550.3	517.7	500.6
77.5°	870.3	663.6	393.8	407.1	350.0	448.3	697.8	634.7	523.1	480.3	471.8
80°	355.3	338.7	326.4	352.1	300.8	392.2	647.5	598.9	490.5	445.6	428.5
82.5°	201.4	210.5	253.8	277.8	244.2	361.2	623.5	570.1	451.5	399.1	378.8
85°	103.1	123.4	176.8	199.3	179.5	307.2	574.4	499.0	362.2	305.6	307.2
87.5°	49.7	68.9	111.7	125.0	116.5	222.3	429.0	361.7	282.1	223.3	216.4
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)