

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: P836754

Luminaire Tested: **ARCH3-70-727-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11158 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.1
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



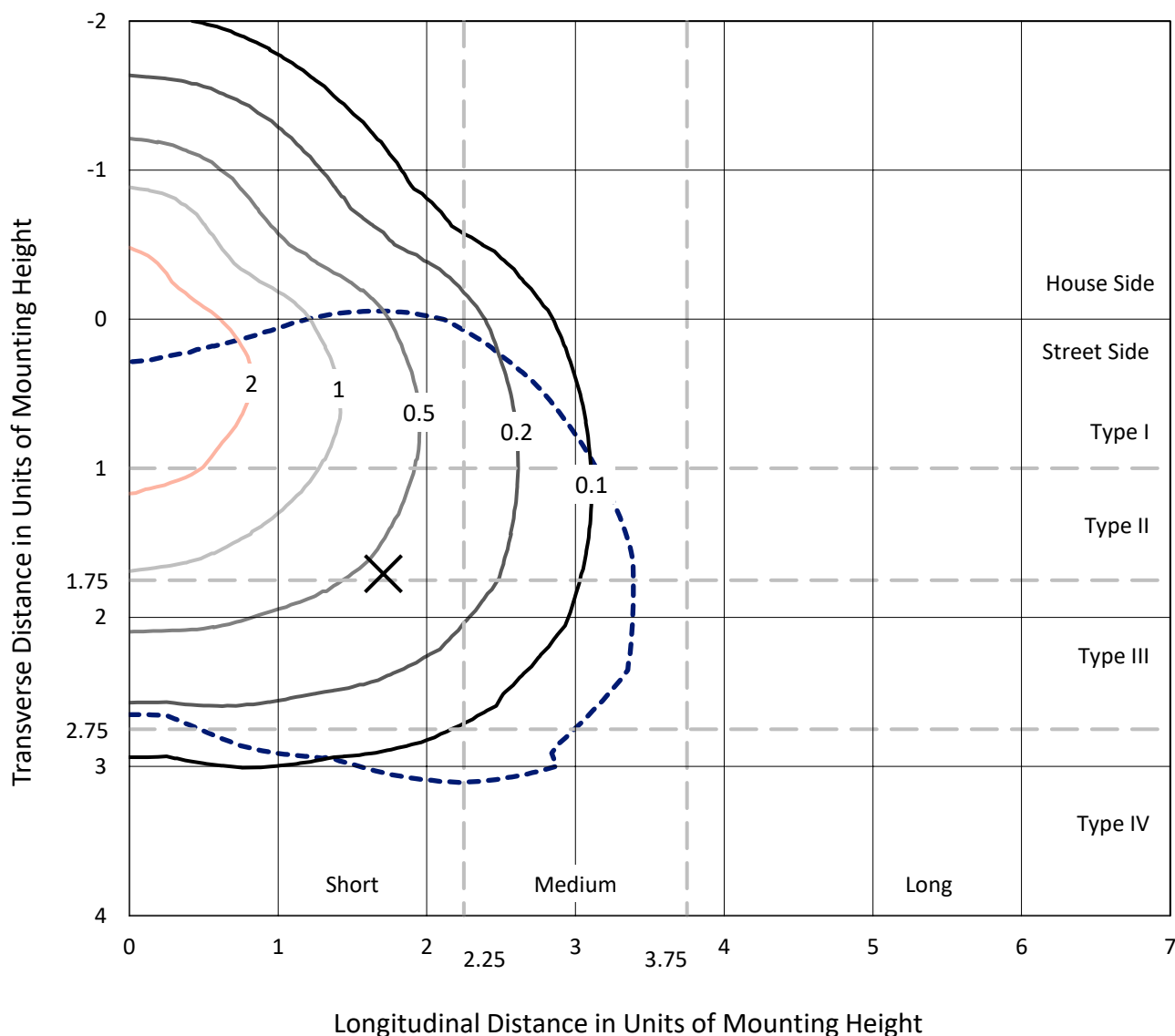
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



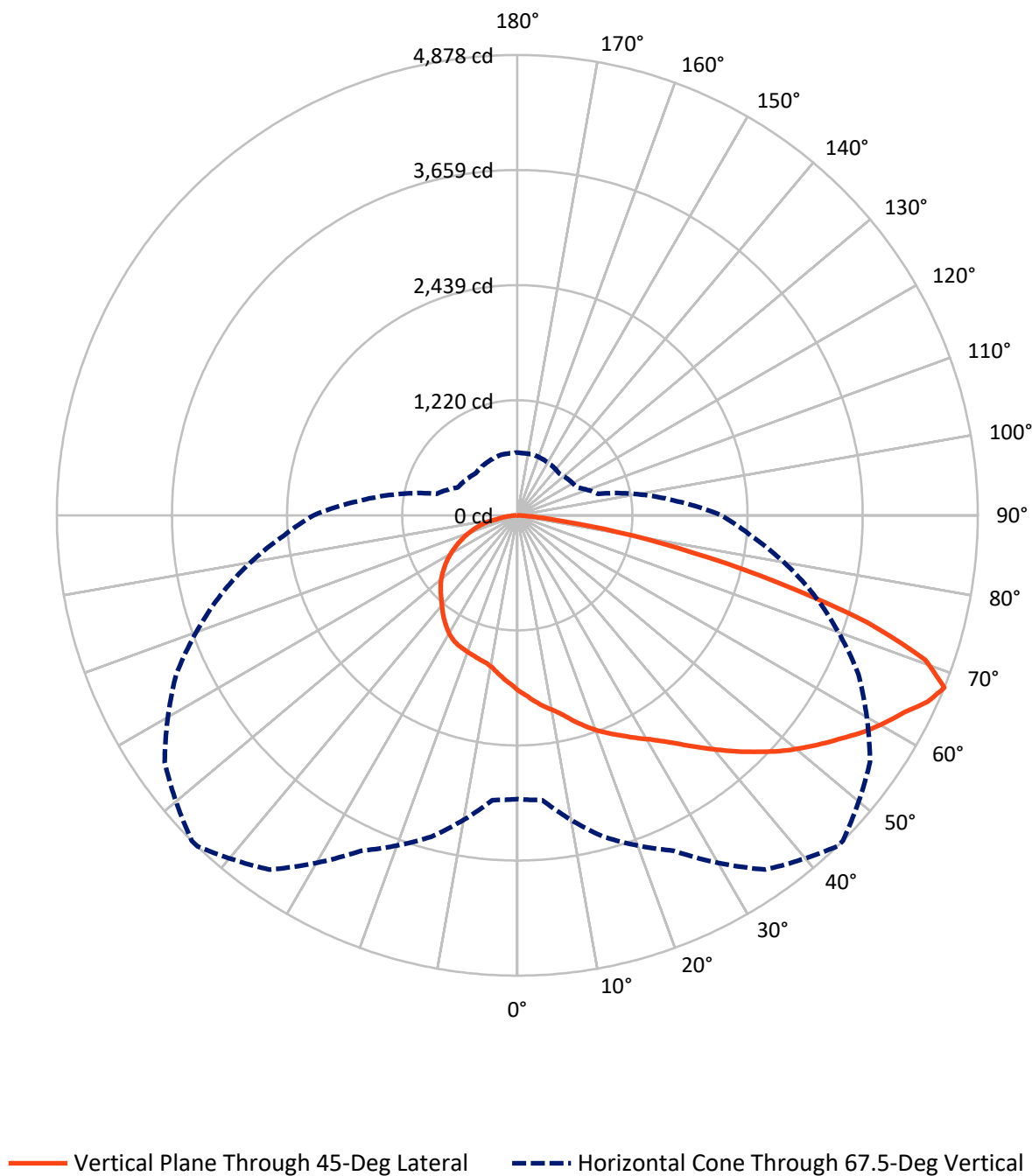
Based on 25 foot mounting height. Maximum calculated value = 3.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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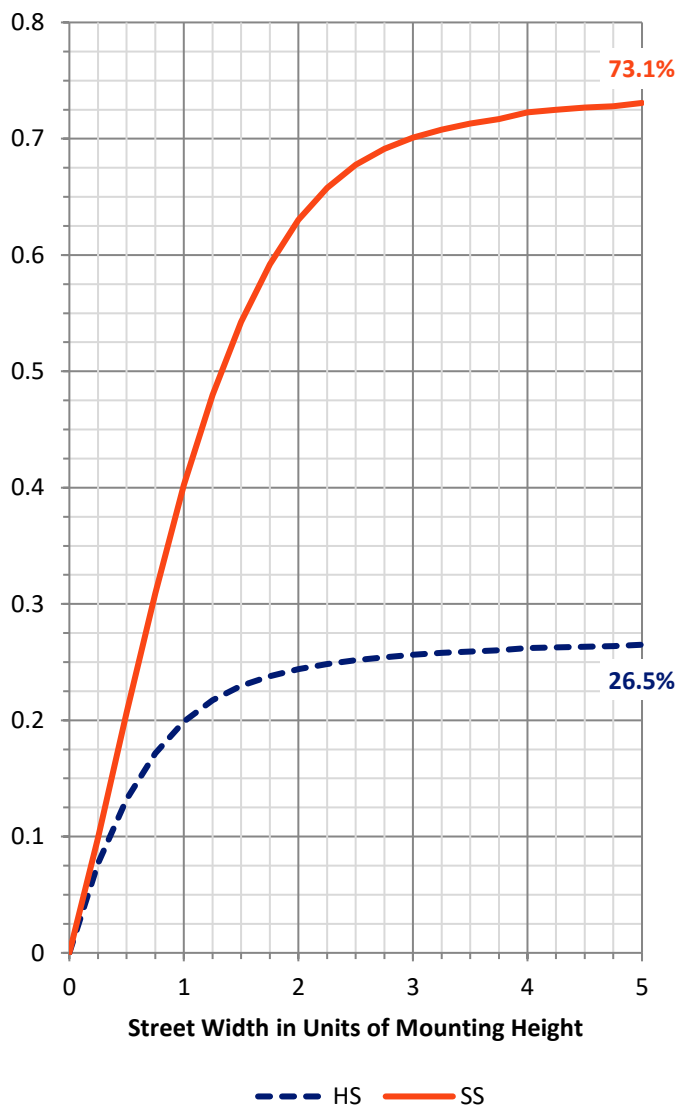
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2980.9	0.0	2980.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8177.1	0.0	8177.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	11158.0	0.0	11158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	1.6
10°-20°	550.4	4.9
20°-30°	950.1	8.5
30°-40°	1401.0	12.6
40°-50°	1898.1	17.0
50°-60°	2319.9	20.8
60°-70°	2392.7	21.4
70°-80°	1310.5	11.7
80°-90°	157.1	1.4
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°	11158.0	100.0
0°-180°	11158.0	100.0

Coefficient of Utilization



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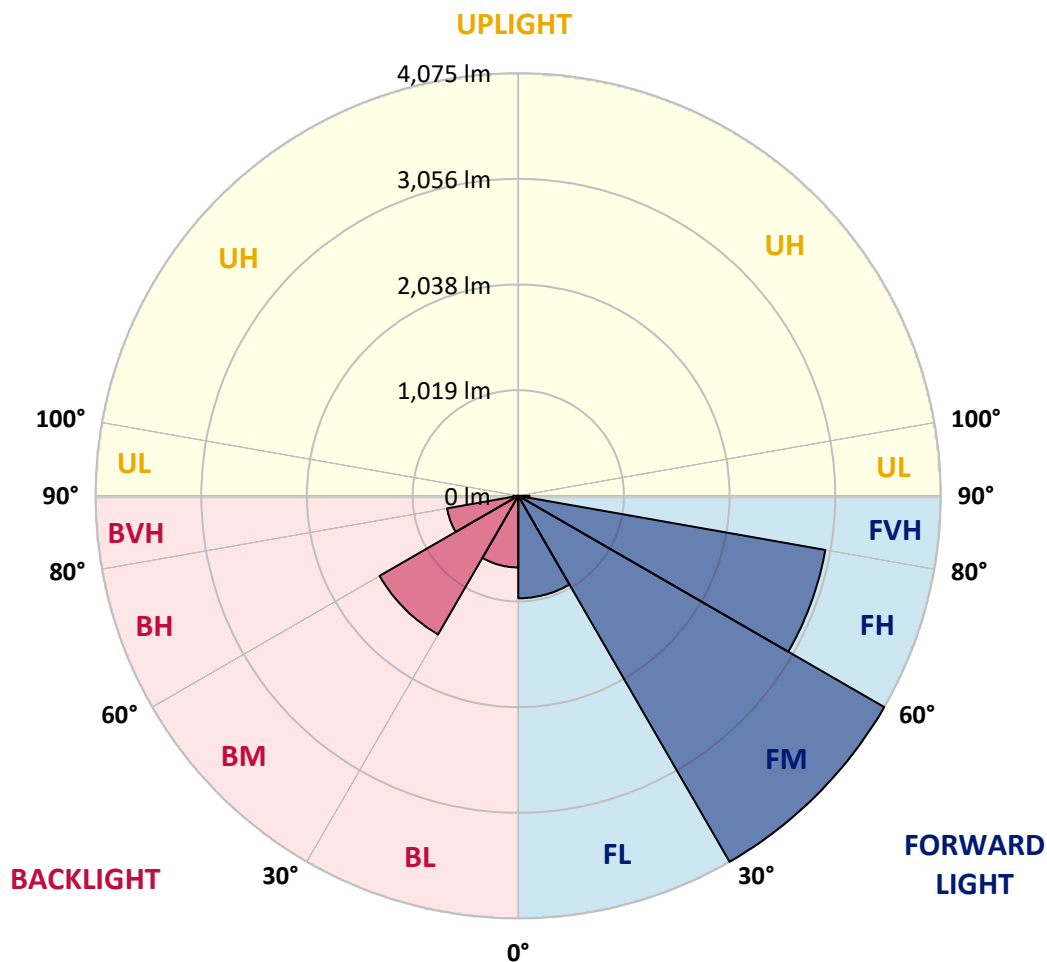
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	987.8	8.9			
FM	(30°-60°)	4075.0	36.5			
FH	(60°-80°)	3006.1	26.9			G2/5000
FVH	(80°-90°)	108.2	1.0			G2/225
BL	(0°-30°)	690.9	6.2	B2/1000		
BM	(30°-60°)	1544.0	13.8	B2/2500		
BH	(60°-80°)	697.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	48.9	0.4			G1/100
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°	44°	45°	55°	65°	75°	85°
0°	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9
2.5°	1942.4	1940.7	1944.1	1932.3	1917.0	1915.3	1915.3	1905.1	1893.2	1869.4	1850.8
5°	2034.1	2030.7	2032.4	2015.5	1995.1	1984.9	1983.2	1961.1	1934.0	1896.6	1862.6
7.5°	2119.0	2115.6	2113.9	2095.3	2064.7	2047.7	2046.0	2013.8	1981.5	1923.8	1874.5
10°	2198.8	2195.4	2192.0	2166.6	2129.2	2103.7	2100.4	2059.6	2018.9	1947.5	1884.7
12.5°	2300.7	2293.9	2290.5	2260.0	2205.6	2178.5	2173.4	2119.0	2068.1	1981.5	1905.1
15°	2407.7	2402.6	2397.5	2368.6	2307.5	2271.8	2263.4	2195.4	2125.8	2025.6	1935.7
17.5°	2487.5	2482.4	2482.4	2456.9	2400.9	2360.1	2353.3	2271.8	2185.2	2066.4	1959.4
20°	2536.7	2531.6	2536.7	2521.4	2479.0	2445.0	2438.2	2348.3	2244.7	2103.7	1979.8
22.5°	2572.4	2567.3	2575.8	2569.0	2538.4	2518.0	2513.0	2424.7	2305.8	2142.8	2000.2
25°	2635.2	2635.2	2635.2	2623.3	2594.5	2587.7	2587.7	2511.3	2383.9	2193.7	2030.7
27.5°	2760.9	2754.1	2745.6	2711.6	2662.4	2660.7	2670.9	2599.5	2473.9	2260.0	2068.1
30°	2945.9	2942.5	2910.3	2839.0	2755.8	2747.3	2754.1	2694.6	2570.7	2329.6	2110.5
32.5°	3185.3	3173.5	3107.2	3000.3	2881.4	2842.4	2855.9	2793.1	2672.6	2400.9	2151.3
35°	3355.1	3358.5	3311.0	3214.2	3073.3	2969.7	2979.9	2903.5	2782.9	2480.7	2202.2
37.5°	3550.4	3562.3	3491.0	3418.0	3287.2	3110.6	3120.8	3017.2	2893.3	2580.9	2256.6
40°	3820.4	3796.6	3676.0	3589.4	3445.1	3258.3	3266.8	3144.6	3020.6	2676.0	2319.4
42.5°	4046.2	4003.7	3857.7	3747.4	3574.2	3414.6	3423.0	3282.1	3149.7	2781.2	2389.0
45°	4370.5	4253.3	4042.8	3988.5	3706.6	3567.4	3575.9	3428.1	3285.5	2893.3	2463.7
47.5°	4559.0	4372.2	4238.1	4209.2	3852.6	3725.3	3735.5	3582.7	3431.5	3020.6	2541.8
50°	4547.1	4426.5	4387.5	4316.2	3981.7	3873.0	3883.2	3742.3	3579.3	3146.3	2616.5
52.5°	4469.0	4491.1	4470.7	4351.8	4110.7	4015.6	4027.5	3900.2	3730.4	3263.4	2686.1
55°	4589.5	4604.8	4565.8	4409.6	4253.3	4158.3	4171.8	4066.6	3879.8	3367.0	2745.6
57.5°	4733.9	4679.5	4640.5	4511.4	4401.1	4312.8	4328.1	4236.4	4008.8	3450.2	2791.4
60°	4727.1	4613.3	4652.4	4518.2	4501.2	4455.4	4469.0	4375.6	4107.3	3511.3	2810.1
62.5°	4379.0	4317.9	4514.8	4469.0	4582.7	4582.7	4599.7	4460.5	4166.7	3536.8	2799.9
65°	3774.5	3777.9	4124.3	4314.5	4679.5	4757.6	4771.2	4513.1	4132.8	3462.1	2704.8
67.5°	3007.1	3029.1	3526.6	3922.2	4582.7	4876.5	4878.2	4560.7	3986.8	3251.6	2484.1
70°	2200.5	2217.5	2805.0	3285.5	4126.0	4613.3	4586.1	4426.5	3669.2	2884.8	2139.4
72.5°	1487.4	1502.7	2107.1	2523.1	3385.7	3929.0	3869.6	3912.1	3127.6	2370.3	1720.0
75°	1000.1	1018.8	1499.3	1804.9	2490.9	2983.3	2850.8	2962.9	2419.6	1794.7	1254.8
77.5°	629.9	641.8	952.5	1183.5	1701.3	2030.7	1898.3	1900.0	1394.0	966.1	674.1
80°	400.7	404.1	577.3	682.6	984.8	1220.8	1079.9	877.8	628.2	512.8	402.4
82.5°	232.6	227.5	344.7	385.4	468.6	463.5	383.7	363.4	275.1	256.4	205.5
85°	93.4	86.6	151.1	140.9	142.6	151.1	112.1	112.1	90.0	69.6	50.9
87.5°	18.7	18.7	20.4	18.7	18.7	20.4	15.3	15.3	13.6	13.6	13.6
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°	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9	1860.9
2.5°	1847.4	1844.0	1835.5	1813.4	1801.5	1794.7	1784.5	1781.1	1779.4	1781.1	1786.2
5°	1852.5	1840.6	1816.8	1781.1	1757.4	1742.1	1725.1	1718.3	1713.2	1713.2	1718.3
7.5°	1855.8	1837.2	1796.4	1743.8	1709.8	1686.1	1665.7	1657.2	1655.5	1660.6	1662.3
10°	1857.5	1830.4	1772.6	1706.4	1662.3	1631.7	1611.3	1606.3	1611.3	1621.5	1623.2
12.5°	1869.4	1832.1	1759.1	1681.0	1628.3	1597.8	1582.5	1582.5	1596.1	1614.7	1616.4
15°	1889.8	1844.0	1752.3	1660.6	1606.3	1579.1	1574.0	1582.5	1602.9	1631.7	1635.1
17.5°	1905.1	1850.8	1737.0	1633.4	1577.4	1560.4	1568.9	1589.3	1618.1	1657.2	1660.6
20°	1915.3	1850.8	1714.9	1601.2	1548.5	1545.1	1568.9	1601.2	1631.7	1677.6	1682.7
22.5°	1925.5	1847.4	1689.5	1562.1	1516.3	1526.4	1570.6	1611.3	1641.9	1691.1	1699.6
25°	1944.1	1852.5	1664.0	1523.1	1482.3	1511.2	1568.9	1618.1	1650.4	1701.3	1714.9
27.5°	1969.6	1864.3	1645.3	1487.4	1448.3	1487.4	1557.0	1616.4	1650.4	1699.6	1714.9
30°	1996.8	1877.9	1623.2	1448.3	1409.3	1453.4	1531.5	1597.8	1636.8	1682.7	1701.3
32.5°	2025.6	1893.2	1604.6	1405.9	1361.7	1407.6	1494.2	1568.9	1611.3	1653.8	1674.2
35°	2064.7	1920.4	1594.4	1371.9	1319.3	1360.1	1446.6	1531.5	1577.4	1616.4	1640.2
37.5°	2112.2	1954.3	1589.3	1338.0	1273.5	1307.4	1395.7	1485.7	1534.9	1567.2	1589.3
40°	2166.6	1996.8	1587.6	1305.7	1227.6	1253.1	1343.1	1433.1	1480.6	1506.1	1524.8
42.5°	2227.7	2044.3	1584.2	1273.5	1181.8	1202.1	1292.1	1380.4	1421.2	1443.2	1460.2
45°	2292.2	2091.9	1577.4	1234.4	1132.5	1156.3	1239.5	1317.6	1360.1	1378.7	1397.4
47.5°	2356.7	2139.4	1563.8	1190.3	1088.4	1110.5	1183.5	1251.4	1285.3	1302.3	1321.0
50°	2419.6	2181.9	1531.5	1139.3	1042.5	1062.9	1118.9	1164.8	1190.3	1203.8	1222.5
52.5°	2475.6	2210.7	1485.7	1079.9	996.7	1006.9	1044.2	1083.3	1103.7	1105.4	1122.3
55°	2523.1	2226.0	1419.5	1018.8	947.5	949.1	969.5	1000.1	1008.6	1001.8	1013.7
57.5°	2550.3	2217.5	1346.5	955.9	896.5	889.7	905.0	920.3	922.0	905.0	916.9
60°	2557.1	2178.5	1251.4	893.1	845.6	826.9	832.0	828.6	825.2	818.4	828.6
62.5°	2523.1	2095.3	1146.1	832.0	791.2	762.4	760.7	759.0	764.1	765.8	767.5
65°	2399.2	1939.0	1020.5	769.2	733.5	694.5	692.8	713.1	719.9	709.7	713.1
67.5°	2159.8	1699.6	882.9	696.2	660.5	626.5	640.1	652.0	663.9	660.5	663.9
70°	1820.2	1395.7	757.3	614.7	580.7	562.0	577.3	587.5	589.2	585.8	589.2
72.5°	1431.4	1090.1	640.1	531.5	500.9	492.4	511.1	519.6	534.9	541.6	543.3
75°	1034.0	804.8	524.7	441.5	416.0	416.0	433.0	448.3	461.8	453.4	448.3
77.5°	577.3	480.5	376.9	303.9	309.0	332.8	339.6	356.6	370.2	368.5	365.1
80°	349.8	300.5	254.7	197.0	195.3	213.9	258.1	287.0	293.7	278.5	276.8
82.5°	181.7	157.9	135.8	110.4	122.3	142.6	149.4	180.0	198.7	191.9	200.4
85°	45.8	44.1	49.2	50.9	62.8	69.6	76.4	90.0	59.4	28.9	28.9
87.5°	13.6	13.6	17.0	17.0	22.1	27.2	25.5	25.5	13.6	1.7	0.0
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)