

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: P836615

Luminaire Tested: **ARCH3-50-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

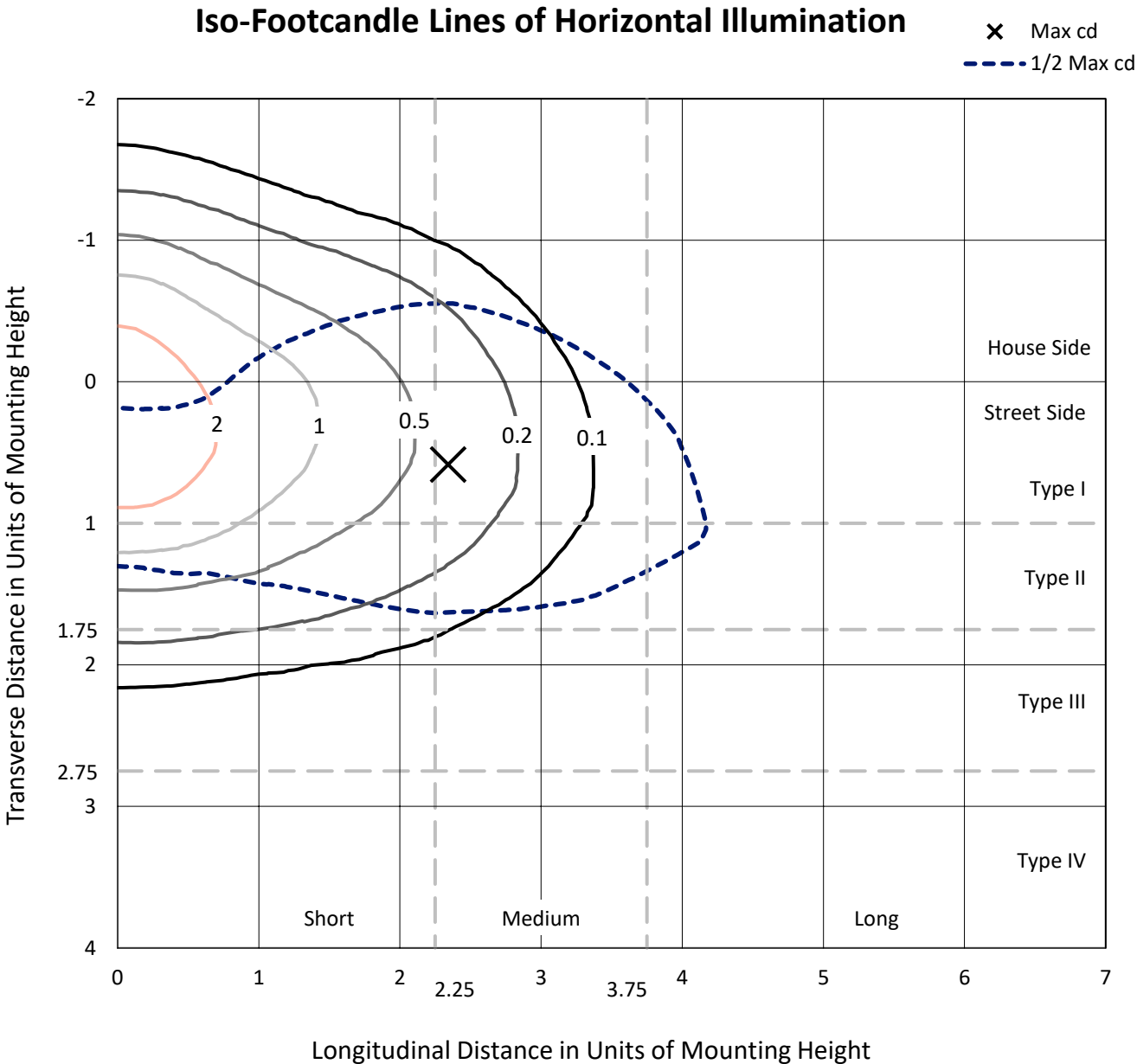
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8940 lumens
Efficiency: N/A
Efficacy: 166.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.6
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



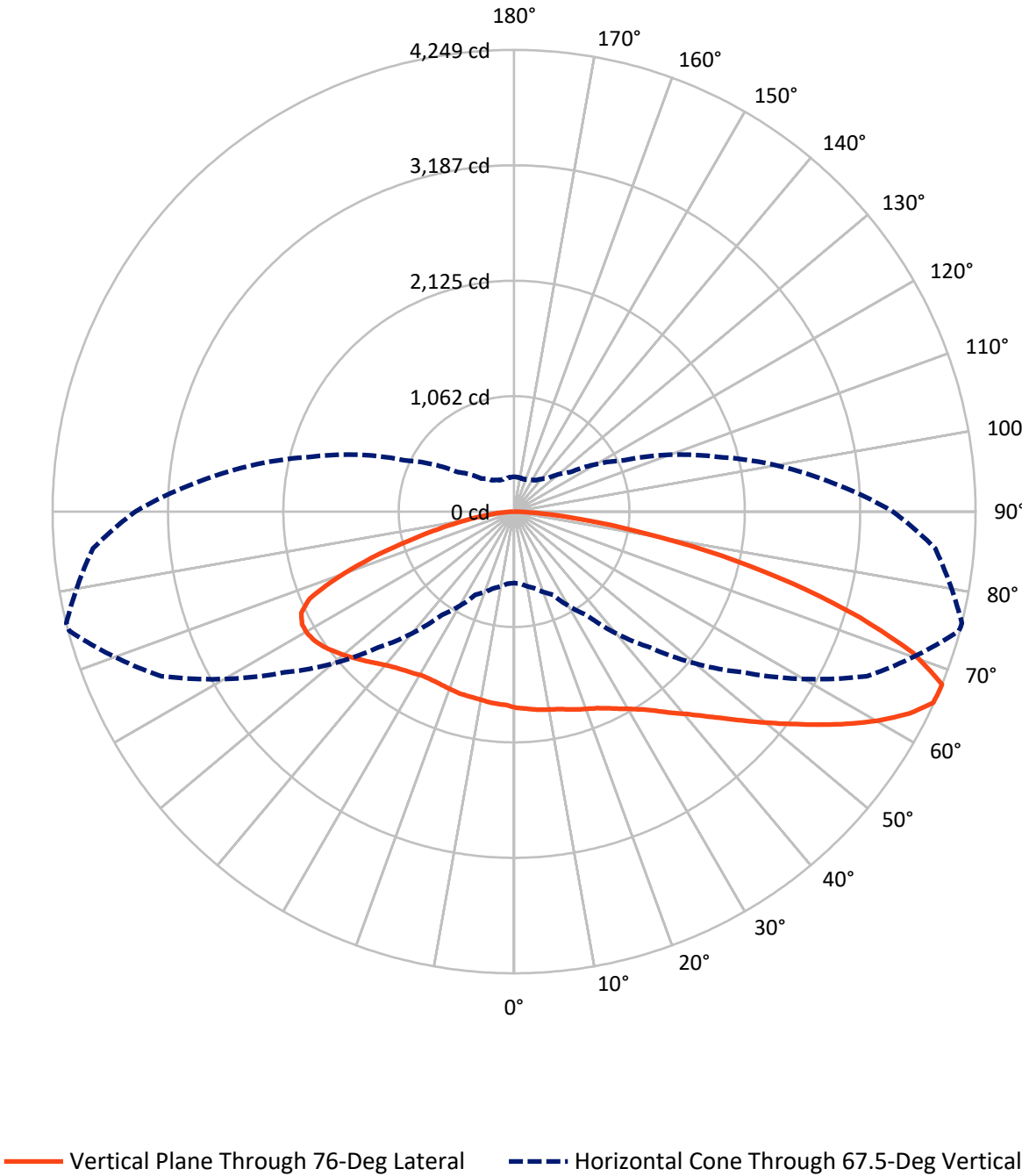
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Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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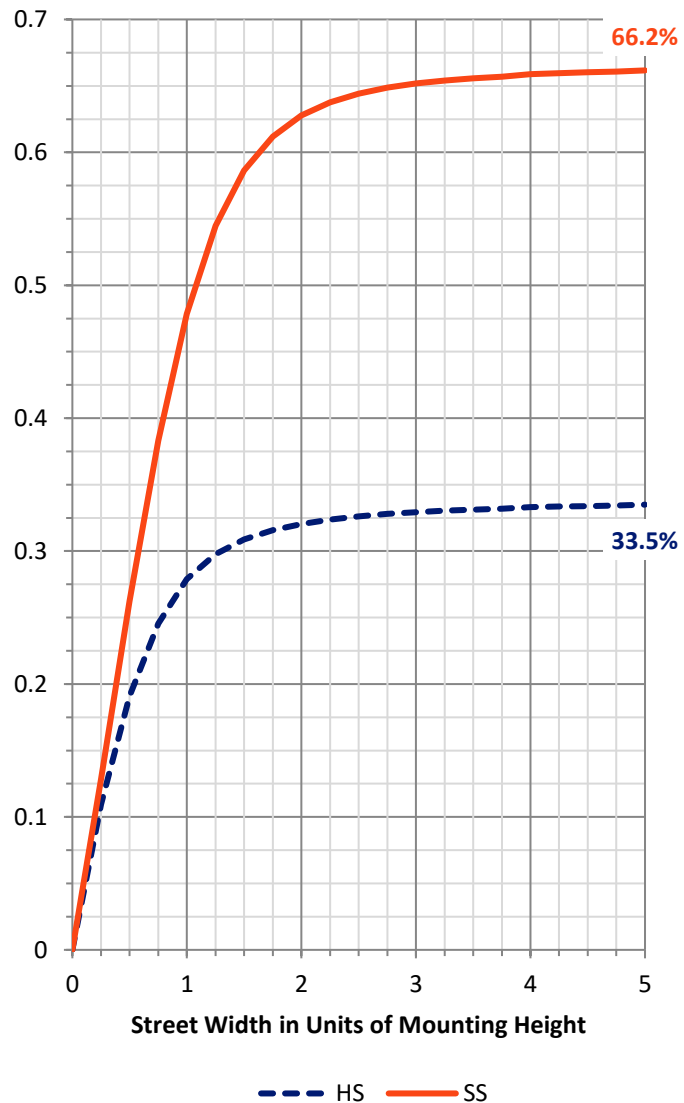
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3020.9	0.0	3020.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5919.1	0.0	5919.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	8940.0	0.0	8940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	1.9
10°-20°	532.4	6.0
20°-30°	904.5	10.1
30°-40°	1287.0	14.4
40°-50°	1625.4	18.2
50°-60°	1759.8	19.7
60°-70°	1636.8	18.3
70°-80°	879.1	9.8
80°-90°	140.9	1.6
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°	8940.0	100.0
0°-180°	8940.0	100.0

Coefficient of Utilization



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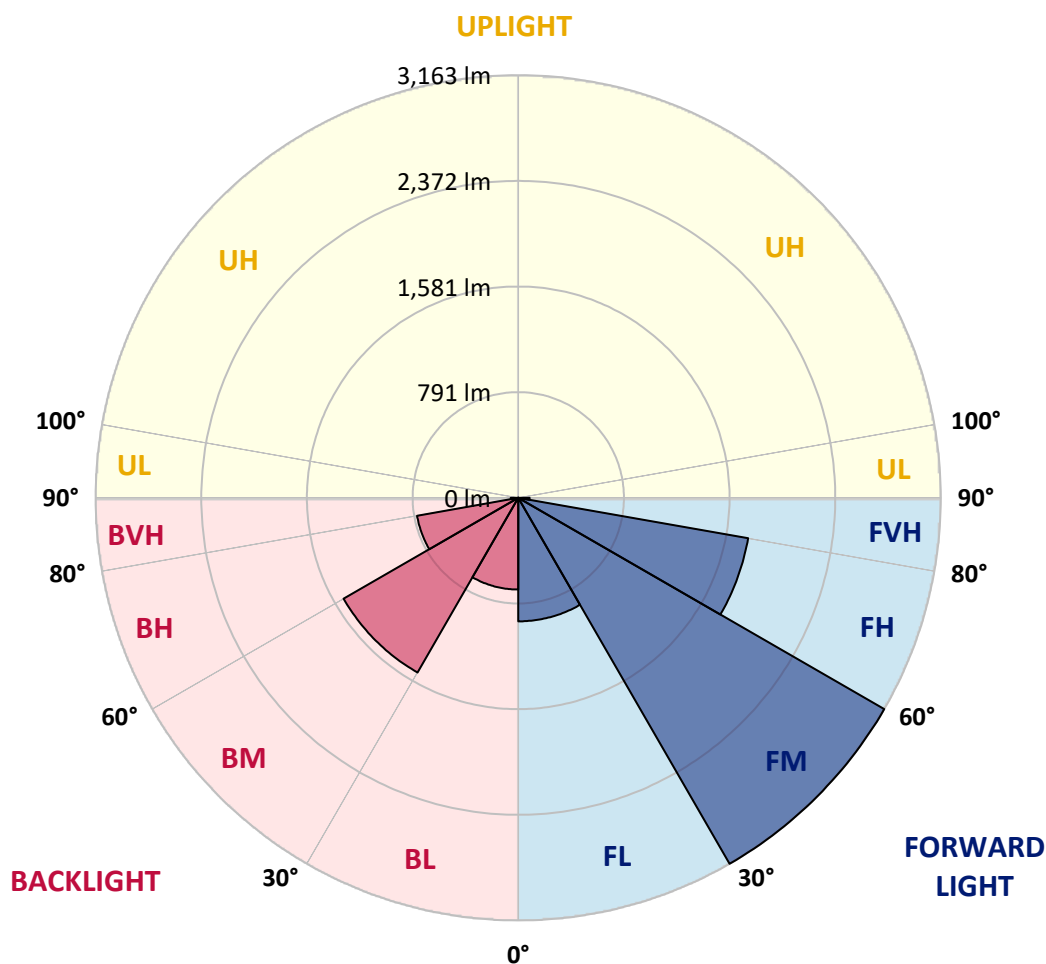
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.5	10.3			
FM	(30°-60°)	3162.6	35.4			
FH	(60°-80°)	1746.8	19.5			G1/1800
FVH	(80°-90°)	85.2	1.0			G1/100
BL	(0°-30°)	686.5	7.7	B2/1000		
BM	(30°-60°)	1509.6	16.9	B2/2500		
BH	(60°-80°)	769.1	8.6	B2/1000		G2/1000
BVH	(80°-90°)	55.7	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9
2.5°	1860.6	1857.3	1844.0	1845.7	1845.7	1844.0	1824.1	1815.8	1815.8	1814.2	1795.9
5°	1927.0	1922.0	1907.1	1903.8	1897.1	1888.9	1857.3	1839.1	1830.8	1829.1	1804.2
7.5°	2005.0	1998.4	1980.1	1970.2	1953.6	1932.0	1892.2	1864.0	1844.0	1842.4	1807.5
10°	2083.0	2076.4	2054.8	2036.6	2013.3	1978.5	1927.0	1885.5	1854.0	1850.7	1809.2
12.5°	2176.0	2169.4	2142.8	2119.6	2084.7	2038.2	1970.2	1913.7	1870.6	1865.6	1814.2
15°	2273.9	2264.0	2237.4	2210.9	2167.7	2107.9	2026.6	1951.9	1897.1	1888.9	1829.1
17.5°	2355.3	2342.0	2320.4	2293.8	2245.7	2176.0	2083.0	1990.1	1922.0	1915.4	1844.0
20°	2425.0	2415.0	2391.8	2366.9	2315.4	2239.1	2136.2	2028.3	1945.3	1937.0	1855.7
22.5°	2491.4	2478.1	2464.8	2446.5	2390.1	2305.5	2197.6	2074.7	1975.2	1965.2	1870.6
25°	2567.7	2552.8	2547.8	2537.8	2471.4	2385.1	2272.3	2132.8	2016.7	2005.0	1897.1
27.5°	2662.3	2645.7	2635.8	2635.8	2556.1	2466.5	2351.9	2200.9	2064.8	2054.8	1930.3
30°	2761.9	2742.0	2727.0	2727.0	2637.4	2547.8	2429.9	2268.9	2119.6	2107.9	1973.5
32.5°	2849.9	2830.0	2813.4	2811.7	2718.7	2629.1	2511.3	2343.6	2186.0	2171.0	2026.6
35°	2917.9	2899.7	2884.7	2888.0	2800.1	2712.1	2602.6	2443.2	2268.9	2252.3	2096.3
37.5°	2959.4	2952.8	2944.5	2956.1	2874.8	2791.8	2697.2	2539.5	2363.6	2348.6	2182.6
40°	2981.0	2976.0	3009.2	3024.2	2937.8	2863.2	2791.8	2639.1	2466.5	2449.9	2282.2
42.5°	3012.5	3054.0	3067.3	3064.0	2984.3	2917.9	2878.1	2747.0	2587.6	2572.7	2401.7
45°	2899.7	2889.7	2962.7	3002.6	2987.6	2952.8	2959.4	2876.4	2728.7	2713.8	2539.5
47.5°	2748.6	2735.3	2776.8	2874.8	2932.9	2966.1	3032.5	3010.9	2891.4	2878.1	2700.5
50°	2429.9	2448.2	2602.6	2733.7	2848.2	2962.7	3093.9	3155.3	3070.6	3057.3	2873.1
52.5°	2076.4	2094.7	2255.7	2557.7	2745.3	2937.8	3138.7	3299.7	3264.8	3249.9	3057.3
55°	1819.1	1859.0	2041.6	2260.6	2599.2	2859.8	3165.2	3447.4	3474.0	3460.7	3258.2
57.5°	1563.5	1593.4	1731.2	1925.4	2400.1	2723.7	3163.6	3585.2	3693.1	3679.8	3462.3
60°	1263.1	1301.3	1410.8	1620.0	2134.5	2561.1	3117.1	3693.1	3903.8	3893.9	3659.9
62.5°	1057.3	1068.9	1146.9	1327.8	1792.6	2355.3	3012.5	3751.1	4094.7	4088.1	3837.5
65°	851.5	853.1	924.5	1075.5	1462.3	2099.6	2834.9	3729.6	4239.1	4242.4	3965.3
67.5°	657.3	665.6	730.3	844.8	1161.9	1767.7	2581.0	3583.5	4240.8	4249.1	3892.2
70°	454.8	461.4	559.4	670.6	898.0	1409.2	2237.4	3196.8	3892.2	3898.9	3488.9
72.5°	320.3	323.7	428.2	536.1	702.1	1062.3	1688.0	2644.1	3317.9	3322.9	2934.5
75°	239.0	242.3	302.1	406.7	537.8	735.3	1153.6	2025.0	2650.7	2650.7	2317.1
77.5°	169.3	171.0	195.9	280.5	358.5	496.3	693.8	1326.2	1945.3	1948.6	1688.0
80°	114.5	116.2	127.8	189.2	224.1	268.9	376.8	695.5	1226.6	1231.6	1072.2
82.5°	59.8	63.1	71.4	96.3	112.9	149.4	194.2	353.5	678.9	692.1	644.0
85°	23.2	23.2	26.6	31.5	41.5	58.1	89.6	134.4	307.1	317.0	283.8
87.5°	8.3	8.3	10.0	10.0	11.6	13.3	14.9	19.9	34.9	34.9	33.2
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°	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9
2.5°	1789.3	1789.3	1781.0	1784.3	1782.6	1779.3	1776.0	1781.0	1776.0	1764.4	1762.7
5°	1792.6	1789.3	1776.0	1774.3	1769.3	1762.7	1754.4	1757.7	1749.4	1739.5	1737.8
7.5°	1794.2	1787.6	1769.3	1762.7	1752.7	1739.5	1726.2	1726.2	1714.6	1704.6	1703.0
10°	1790.9	1782.6	1757.7	1744.4	1726.2	1706.3	1688.0	1683.0	1669.8	1658.1	1658.1
12.5°	1792.6	1781.0	1749.4	1727.8	1703.0	1678.1	1654.8	1648.2	1636.6	1624.9	1623.3
15°	1802.5	1785.9	1746.1	1717.9	1681.4	1653.2	1628.3	1623.3	1613.3	1605.0	1605.0
17.5°	1812.5	1790.9	1741.1	1701.3	1656.5	1624.9	1601.7	1601.7	1595.1	1590.1	1590.1
20°	1817.5	1792.6	1731.2	1678.1	1626.6	1593.4	1571.8	1575.1	1573.5	1571.8	1571.8
22.5°	1829.1	1795.9	1722.9	1656.5	1595.1	1560.2	1540.3	1545.3	1543.6	1543.6	1545.3
25°	1847.4	1804.2	1716.2	1636.6	1565.2	1527.0	1505.4	1508.8	1508.8	1508.8	1508.8
27.5°	1872.3	1820.8	1714.6	1618.3	1535.3	1492.2	1465.6	1465.6	1459.0	1460.6	1462.3
30°	1910.4	1852.3	1717.9	1601.7	1503.8	1449.0	1417.5	1412.5	1410.8	1414.1	1415.8
32.5°	1956.9	1895.5	1737.8	1590.1	1470.6	1400.9	1361.0	1359.4	1354.4	1354.4	1354.4
35°	2015.0	1937.0	1756.1	1588.4	1437.4	1349.4	1306.3	1301.3	1289.7	1284.7	1284.7
37.5°	2089.7	2001.7	1777.6	1576.8	1409.2	1299.6	1248.2	1231.6	1218.3	1216.6	1216.6
40°	2181.0	2074.7	1809.2	1563.5	1379.3	1248.2	1180.1	1151.9	1153.6	1160.2	1160.2
42.5°	2288.9	2164.4	1849.0	1556.9	1336.1	1195.1	1100.4	1067.3	1078.9	1085.5	1087.2
45°	2415.0	2270.6	1893.8	1548.6	1296.3	1135.3	1015.8	974.3	979.3	980.9	982.6
47.5°	2561.1	2388.4	1940.3	1542.0	1251.5	1060.6	922.8	868.1	866.4	856.5	859.8
50°	2713.8	2512.9	1988.4	1530.3	1196.7	972.6	824.9	760.2	746.9	732.0	733.6
52.5°	2876.4	2640.7	2033.3	1512.1	1128.7	883.0	732.0	662.3	635.7	619.1	622.4
55°	3055.7	2771.9	2076.4	1483.9	1057.3	793.4	649.0	577.6	544.4	531.1	532.8
57.5°	3220.0	2898.0	2107.9	1449.0	979.3	712.1	575.9	506.2	484.7	483.0	484.7
60°	3379.3	3004.2	2121.2	1400.9	899.6	637.4	507.9	454.8	439.8	448.1	449.8
62.5°	3513.8	3072.3	2114.6	1336.1	818.3	566.0	453.1	414.9	405.0	421.6	423.2
65°	3591.8	3093.9	2068.1	1243.2	730.3	496.3	401.7	360.2	355.2	365.2	370.1
67.5°	3488.9	2959.4	1942.0	1115.4	632.4	431.5	351.9	318.7	310.4	318.7	318.7
70°	3092.2	2564.4	1643.2	912.9	524.5	368.5	305.4	282.2	275.5	282.2	280.5
72.5°	2576.0	2132.8	1294.6	712.1	413.3	310.4	265.6	244.0	237.4	230.7	227.4
75°	1998.4	1620.0	939.4	522.8	312.0	249.0	222.4	202.5	185.9	192.5	189.2
77.5°	1463.9	1137.0	665.6	361.8	224.1	192.5	174.3	159.3	147.7	161.0	159.3
80°	942.8	735.3	444.8	242.3	154.4	134.4	127.8	119.5	131.1	171.0	174.3
82.5°	575.9	466.4	265.6	157.7	101.2	89.6	83.0	83.0	134.4	147.7	149.4
85°	257.3	247.3	144.4	81.3	56.4	51.5	46.5	59.8	54.8	39.8	41.5
87.5°	41.5	43.2	31.5	28.2	21.6	21.6	16.6	11.6	8.3	5.0	5.0
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)