

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: P842462

Luminaire Tested: **ARCH4-50-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

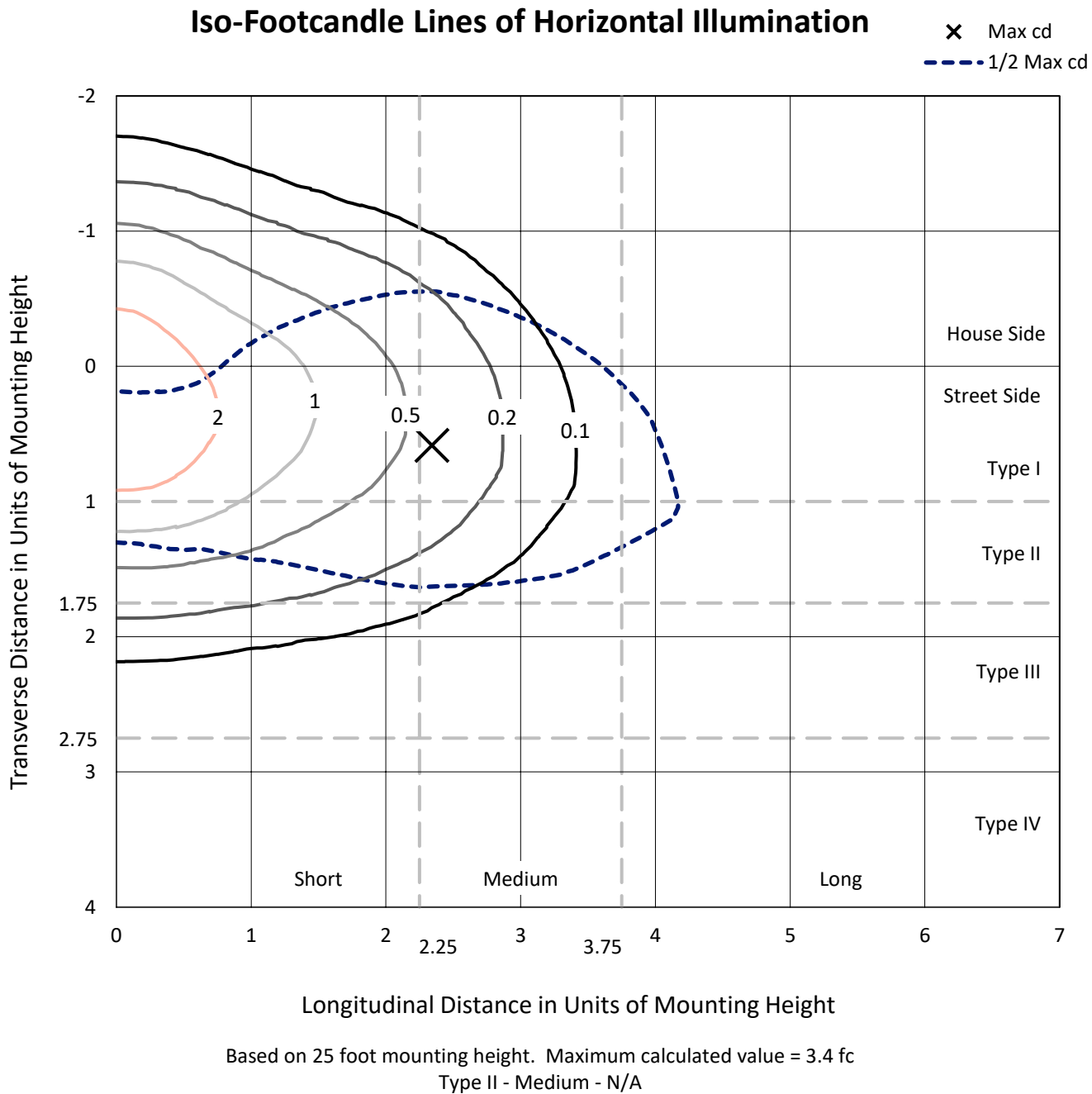
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9373 lumens
Efficiency: N/A
Efficacy: 176.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.2
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

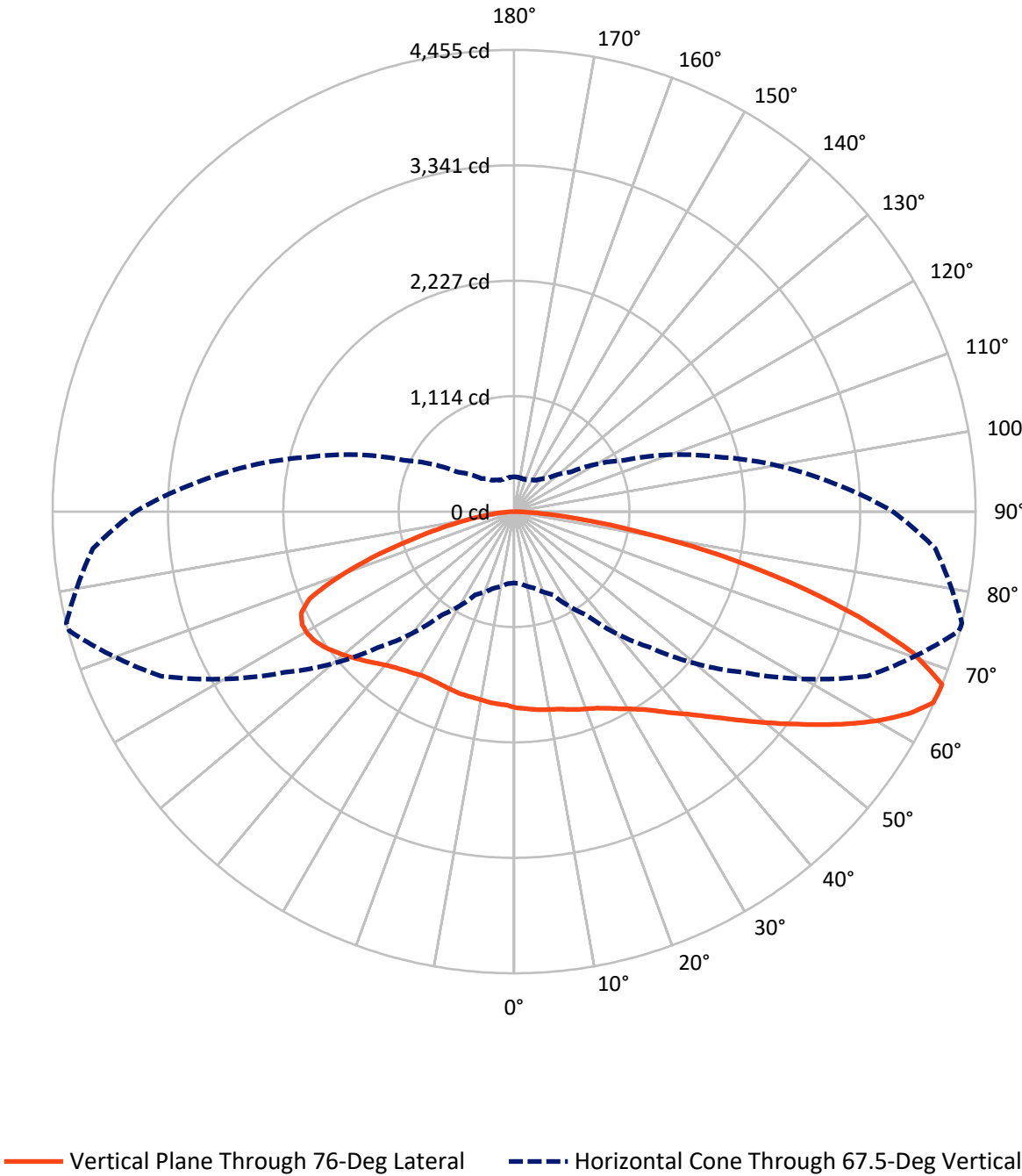


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Luminous Intensity Polar Plot



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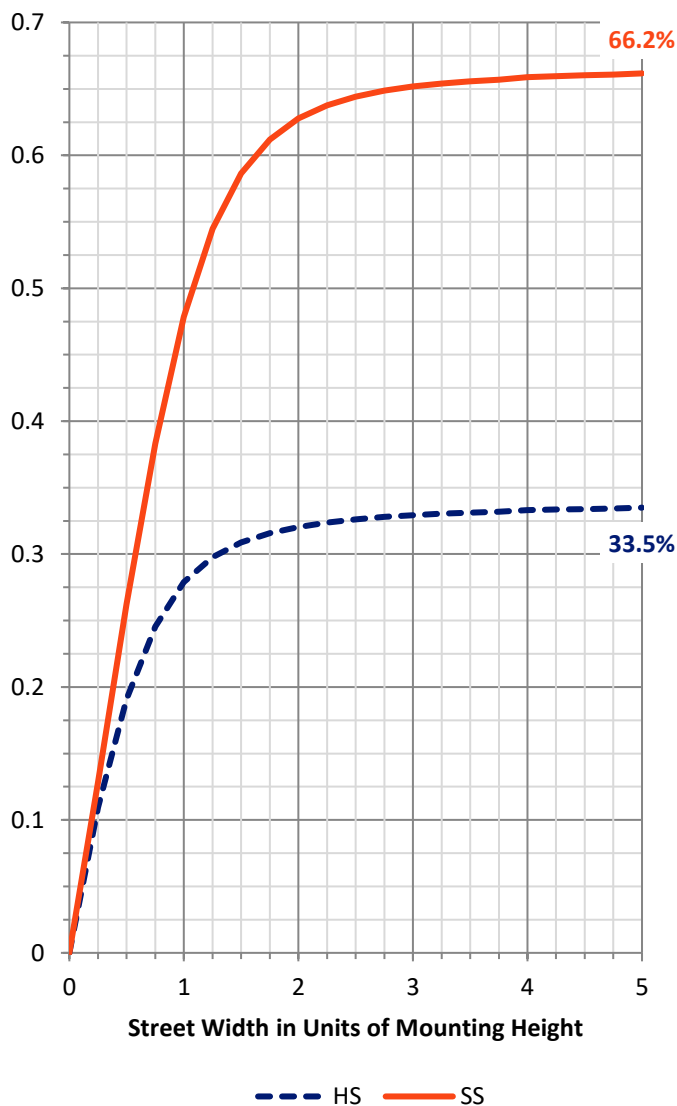
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3167.2	0.0	3167.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6205.8	0.0	6205.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	9373.0	0.0	9373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.9
10°-20°	558.1	6.0
20°-30°	948.3	10.1
30°-40°	1349.3	14.4
40°-50°	1704.1	18.2
50°-60°	1845.0	19.7
60°-70°	1716.1	18.3
70°-80°	921.7	9.8
80°-90°	147.7	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°	9373.0	100.0
0°-180°	9373.0	100.0

Coefficient of Utilization



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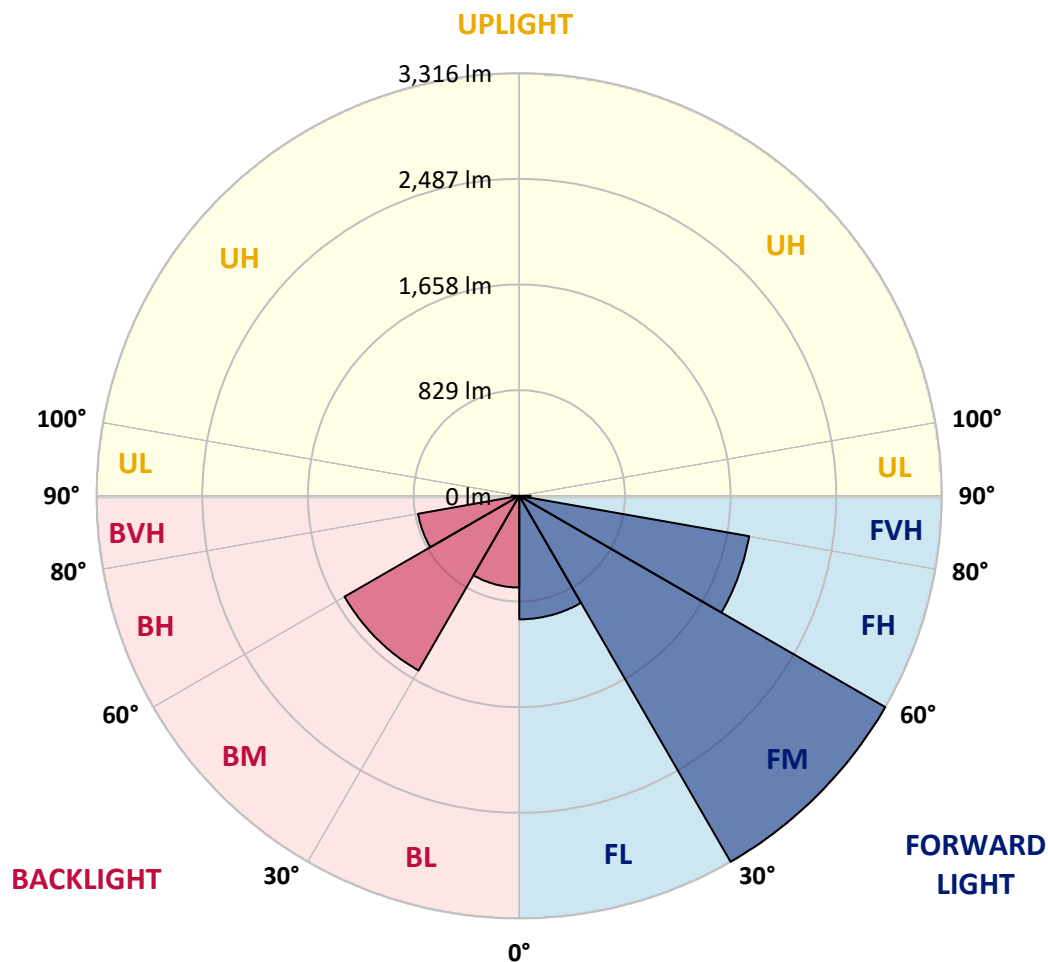
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	969.3	10.3			
FM	(30°-60°)	3315.8	35.4			
FH	(60°-80°)	1831.4	19.5			G2/5000
FVH	(80°-90°)	89.3	1.0			G1/100
BL	(0°-30°)	719.8	7.7	B2/1000		
BM	(30°-60°)	1582.7	16.9	B2/2500		
BH	(60°-80°)	806.4	8.6	B2/1000		G2/1000
BVH	(80°-90°)	58.4	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°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1950.8	1947.3	1933.3	1935.1	1935.1	1933.3	1912.5	1903.8	1903.8	1902.0	1882.9
5°	2020.4	2015.1	1999.5	1996.0	1989.0	1980.3	1947.3	1928.1	1919.4	1917.7	1891.6
7.5°	2102.1	2095.2	2076.0	2065.6	2048.2	2025.6	1983.8	1954.2	1933.3	1931.6	1895.1
10°	2183.9	2177.0	2154.4	2135.2	2110.8	2074.3	2020.4	1976.9	1943.8	1940.3	1896.8
12.5°	2281.4	2274.4	2246.6	2222.2	2185.7	2137.0	2065.6	2006.4	1961.2	1956.0	1902.0
15°	2384.1	2373.6	2345.8	2317.9	2272.7	2210.0	2124.8	2046.5	1989.0	1980.3	1917.7
17.5°	2469.3	2455.4	2432.8	2404.9	2354.5	2281.4	2183.9	2086.5	2015.1	2008.2	1933.3
20°	2542.4	2532.0	2507.6	2481.5	2427.6	2347.5	2239.6	2126.5	2039.5	2030.8	1945.5
22.5°	2612.0	2598.1	2584.2	2565.0	2505.9	2417.1	2304.0	2175.2	2070.8	2060.4	1961.2
25°	2692.1	2676.4	2671.2	2660.7	2591.1	2500.7	2382.3	2236.1	2114.3	2102.1	1989.0
27.5°	2791.3	2773.9	2763.4	2763.4	2679.9	2585.9	2465.8	2307.5	2164.8	2154.4	2023.8
30°	2895.7	2874.8	2859.1	2859.1	2765.2	2671.2	2547.6	2378.8	2222.2	2210.0	2069.1
32.5°	2987.9	2967.0	2949.6	2947.9	2850.4	2756.5	2632.9	2457.1	2291.8	2276.2	2124.8
35°	3059.3	3040.1	3024.4	3027.9	2935.7	2843.5	2728.6	2561.6	2378.8	2361.4	2197.9
37.5°	3102.8	3095.8	3087.1	3099.3	3014.0	2927.0	2827.8	2662.5	2478.0	2462.4	2288.3
40°	3125.4	3120.2	3155.0	3170.6	3080.1	3001.8	2927.0	2766.9	2585.9	2568.5	2392.8
42.5°	3158.4	3201.9	3215.9	3212.4	3128.9	3059.3	3017.5	2880.0	2713.0	2697.3	2518.1
45°	3040.1	3029.7	3106.2	3148.0	3132.3	3095.8	3102.8	3015.7	2860.9	2845.2	2662.5
47.5°	2881.8	2867.8	2911.3	3014.0	3074.9	3109.7	3179.3	3156.7	3031.4	3017.5	2831.3
50°	2547.6	2566.8	2728.6	2866.1	2986.2	3106.2	3243.7	3308.1	3219.3	3205.4	3012.3
52.5°	2177.0	2196.1	2364.9	2681.6	2878.3	3080.1	3290.7	3459.5	3423.0	3407.3	3205.4
55°	1907.2	1949.0	2140.4	2370.1	2725.1	2998.3	3318.5	3614.4	3642.2	3628.3	3416.0
57.5°	1639.3	1670.6	1815.0	2018.6	2516.3	2855.6	3316.8	3758.8	3871.9	3858.0	3630.0
60°	1324.3	1364.3	1479.2	1698.4	2237.9	2685.1	3268.1	3871.9	4092.9	4082.5	3837.1
62.5°	1108.5	1120.7	1202.5	1392.2	1879.4	2469.3	3158.4	3932.8	4293.0	4286.1	4023.3
65°	892.7	894.5	969.3	1127.6	1533.1	2201.3	2972.2	3910.2	4444.4	4447.9	4157.3
67.5°	689.1	697.8	765.7	885.8	1218.1	1853.3	2706.0	3757.1	4446.2	4454.9	4080.7
70°	476.8	483.8	586.4	703.0	941.4	1477.4	2345.8	3351.6	4080.7	4087.7	3657.9
72.5°	335.9	339.3	449.0	562.1	736.1	1113.7	1769.8	2772.1	3478.6	3483.9	3076.7
75°	250.6	254.1	316.7	426.3	563.8	770.9	1209.4	2123.0	2779.1	2779.1	2429.3
77.5°	177.5	179.2	205.3	294.1	375.9	520.3	727.4	1390.4	2039.5	2043.0	1769.8
80°	120.1	121.8	134.0	198.4	234.9	281.9	395.0	729.1	1286.0	1291.2	1124.2
82.5°	62.6	66.1	74.8	100.9	118.3	156.6	203.6	370.7	711.7	725.7	675.2
85°	24.4	24.4	27.8	33.1	43.5	60.9	94.0	141.0	321.9	332.4	297.6
87.5°	8.7	8.7	10.4	10.4	12.2	13.9	15.7	20.9	36.5	36.5	34.8
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°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1875.9	1875.9	1867.2	1870.7	1869.0	1865.5	1862.0	1867.2	1862.0	1849.8	1848.1
5°	1879.4	1875.9	1862.0	1860.3	1855.0	1848.1	1839.4	1842.9	1834.2	1823.7	1822.0
7.5°	1881.1	1874.2	1855.0	1848.1	1837.6	1823.7	1809.8	1809.8	1797.6	1787.2	1785.4
10°	1877.7	1869.0	1842.9	1828.9	1809.8	1788.9	1769.8	1764.6	1750.6	1738.4	1738.4
12.5°	1879.4	1867.2	1834.2	1811.5	1785.4	1759.3	1735.0	1728.0	1715.8	1703.6	1701.9
15°	1889.8	1872.4	1830.7	1801.1	1762.8	1733.2	1707.1	1701.9	1691.5	1682.8	1682.8
17.5°	1900.3	1877.7	1825.5	1783.7	1736.7	1703.6	1679.3	1679.3	1672.3	1667.1	1667.1
20°	1905.5	1879.4	1815.0	1759.3	1705.4	1670.6	1648.0	1651.4	1649.7	1648.0	1648.0
22.5°	1917.7	1882.9	1806.3	1736.7	1672.3	1635.8	1614.9	1620.1	1618.4	1618.4	1620.1
25°	1936.8	1891.6	1799.4	1715.8	1641.0	1601.0	1578.4	1581.8	1581.8	1581.8	1581.8
27.5°	1962.9	1909.0	1797.6	1696.7	1609.7	1564.4	1536.6	1536.6	1529.6	1531.4	1533.1
30°	2003.0	1942.1	1801.1	1679.3	1576.6	1519.2	1486.1	1480.9	1479.2	1482.6	1484.4
32.5°	2051.7	1987.3	1822.0	1667.1	1541.8	1468.7	1427.0	1425.2	1420.0	1420.0	1420.0
35°	2112.6	2030.8	1841.1	1665.4	1507.0	1414.8	1369.5	1364.3	1352.1	1346.9	1346.9
37.5°	2190.9	2098.7	1863.7	1653.2	1477.4	1362.6	1308.6	1291.2	1277.3	1275.6	1275.6
40°	2286.6	2175.2	1896.8	1639.3	1446.1	1308.6	1237.3	1207.7	1209.4	1216.4	1216.4
42.5°	2399.7	2269.2	1938.6	1632.3	1400.9	1252.9	1153.7	1118.9	1131.1	1138.1	1139.8
45°	2532.0	2380.6	1985.6	1623.6	1359.1	1190.3	1065.0	1021.5	1026.7	1028.5	1030.2
47.5°	2685.1	2504.1	2034.3	1616.6	1312.1	1112.0	967.5	910.1	908.4	897.9	901.4
50°	2845.2	2634.6	2084.7	1604.5	1254.7	1019.8	864.9	797.0	783.1	767.4	769.2
52.5°	3015.7	2768.6	2131.7	1585.3	1183.3	925.8	767.4	694.3	666.5	649.1	652.6
55°	3203.7	2906.1	2177.0	1555.7	1108.5	831.8	680.4	605.6	570.8	556.9	558.6
57.5°	3376.0	3038.4	2210.0	1519.2	1026.7	746.5	603.8	530.8	508.1	506.4	508.1
60°	3543.0	3149.7	2224.0	1468.7	943.2	668.2	532.5	476.8	461.2	469.9	471.6
62.5°	3684.0	3221.1	2217.0	1400.9	857.9	593.4	475.1	435.0	424.6	442.0	443.7
65°	3765.8	3243.7	2168.3	1303.4	765.7	520.3	421.1	377.6	372.4	382.8	388.1
67.5°	3657.9	3102.8	2036.0	1169.4	663.0	452.4	368.9	334.1	325.4	334.1	334.1
70°	3242.0	2688.6	1722.8	957.1	549.9	386.3	320.2	295.8	288.9	295.8	294.1
72.5°	2700.8	2236.1	1357.3	746.5	433.3	325.4	278.4	255.8	248.8	241.9	238.4
75°	2095.2	1698.4	984.9	548.2	327.2	261.0	233.2	212.3	194.9	201.9	198.4
77.5°	1534.8	1192.0	697.8	379.4	234.9	201.9	182.7	167.1	154.9	168.8	167.1
80°	988.4	770.9	466.4	254.1	161.8	141.0	134.0	125.3	137.5	179.2	182.7
82.5°	603.8	489.0	278.4	165.3	106.2	94.0	87.0	87.0	141.0	154.9	156.6
85°	269.7	259.3	151.4	85.3	59.2	53.9	48.7	62.6	57.4	41.8	43.5
87.5°	43.5	45.2	33.1	29.6	22.6	22.6	17.4	12.2	8.7	5.2	5.2
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)