

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: P836835

Luminaire Tested: **ARCH3-80-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836835
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: ARCH3-80-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12782 lumens
Efficiency: N/A
Efficacy: 156.1 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): 81.9
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



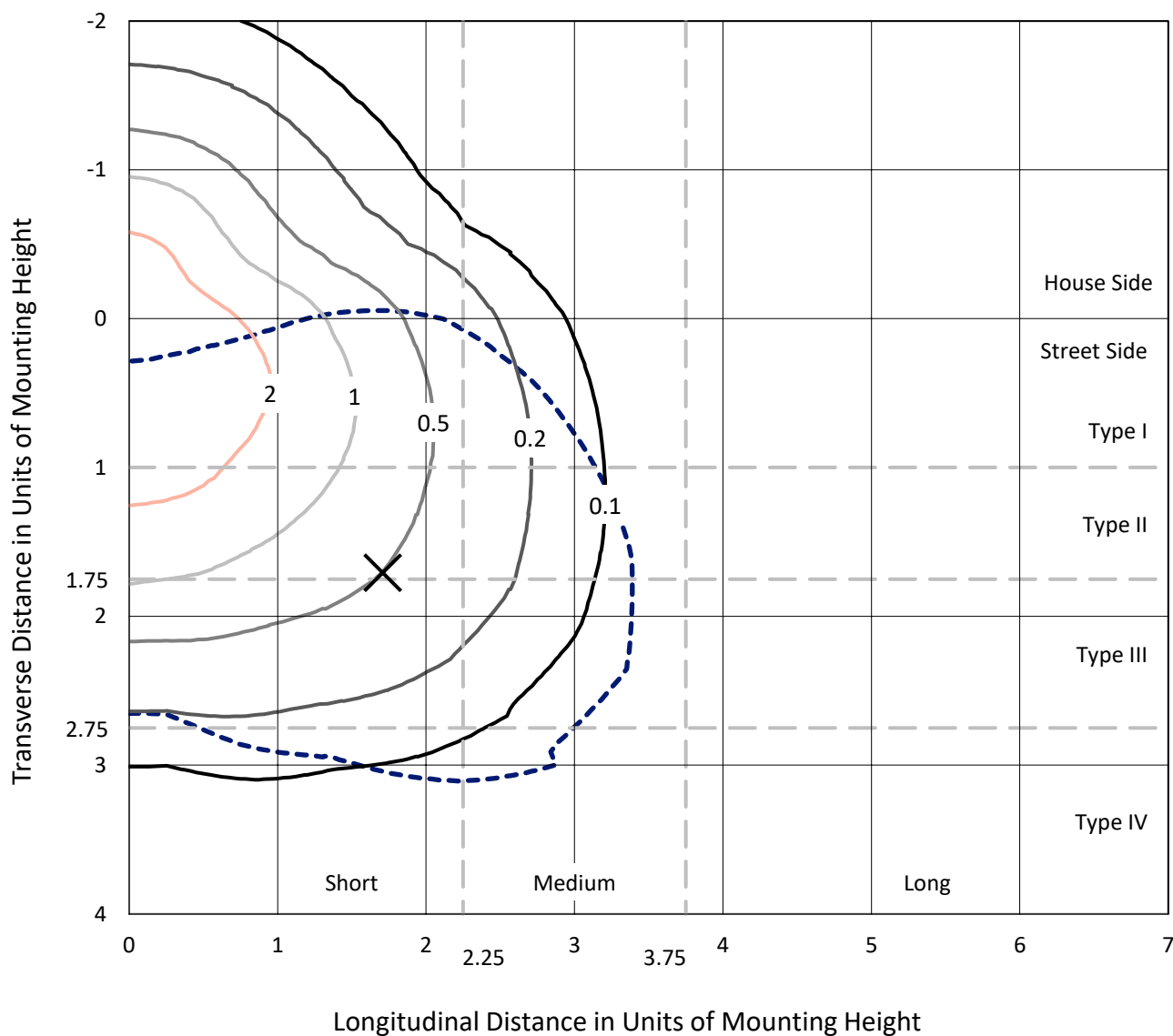
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

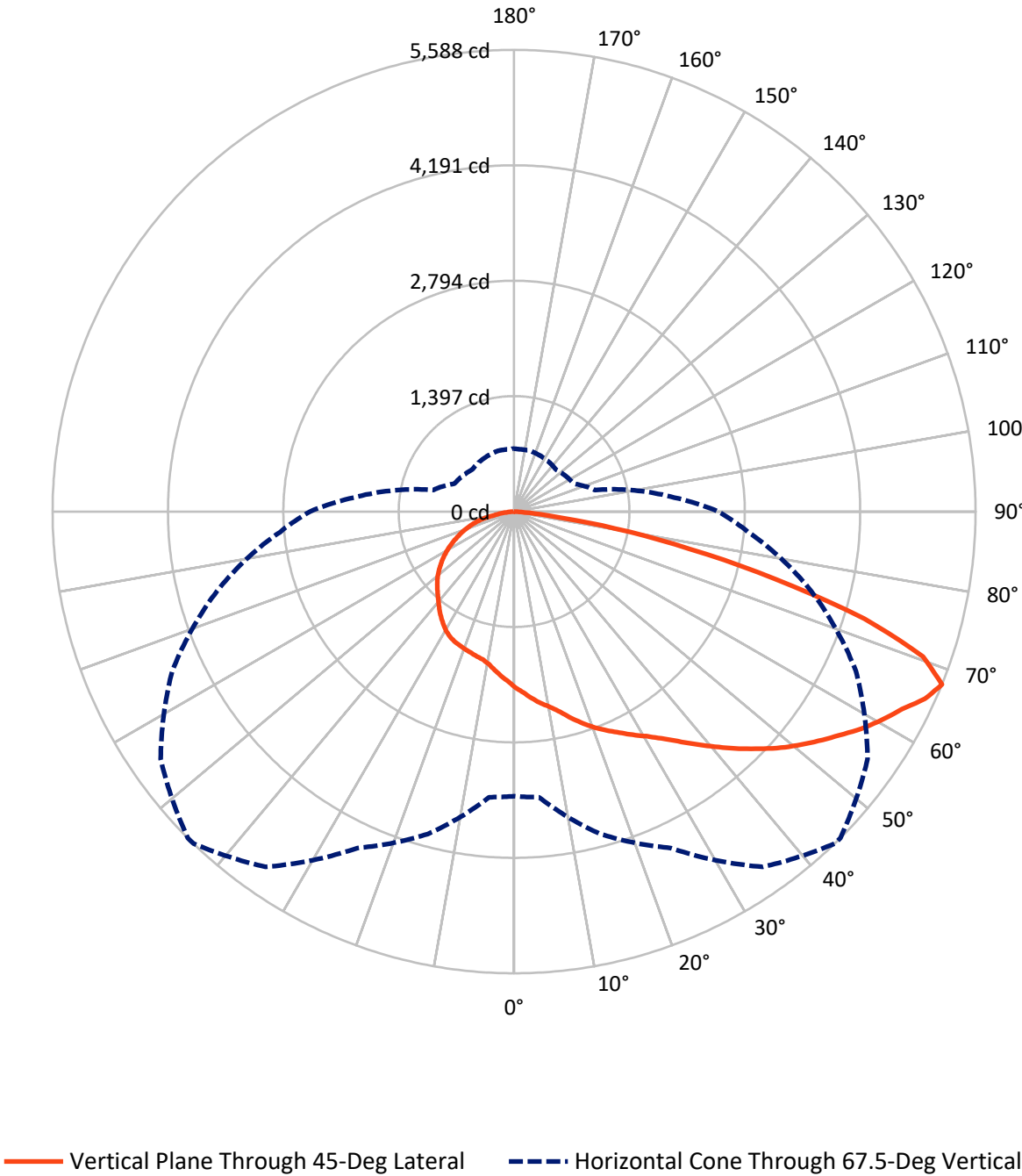


Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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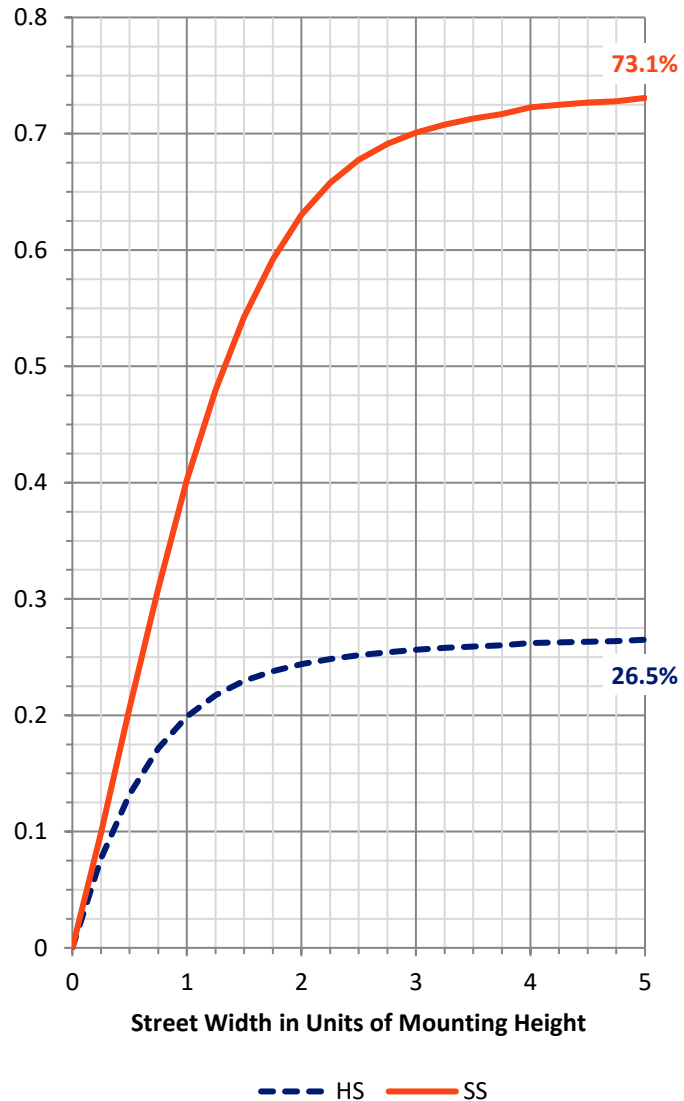
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3414.7	0.0	3414.7
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9367.3	0.0	9367.3
	% Fixture	73.3	0.0	73.3
Total	Lumens	12782.0	0.0	12782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	1.6
10°-20°	630.5	4.9
20°-30°	1088.3	8.5
30°-40°	1604.9	12.6
40°-50°	2174.4	17.0
50°-60°	2657.6	20.8
60°-70°	2740.9	21.4
70°-80°	1501.3	11.7
80°-90°	179.9	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°	12782.0	100.0
0°-180°	12782.0	100.0

Coefficient of Utilization



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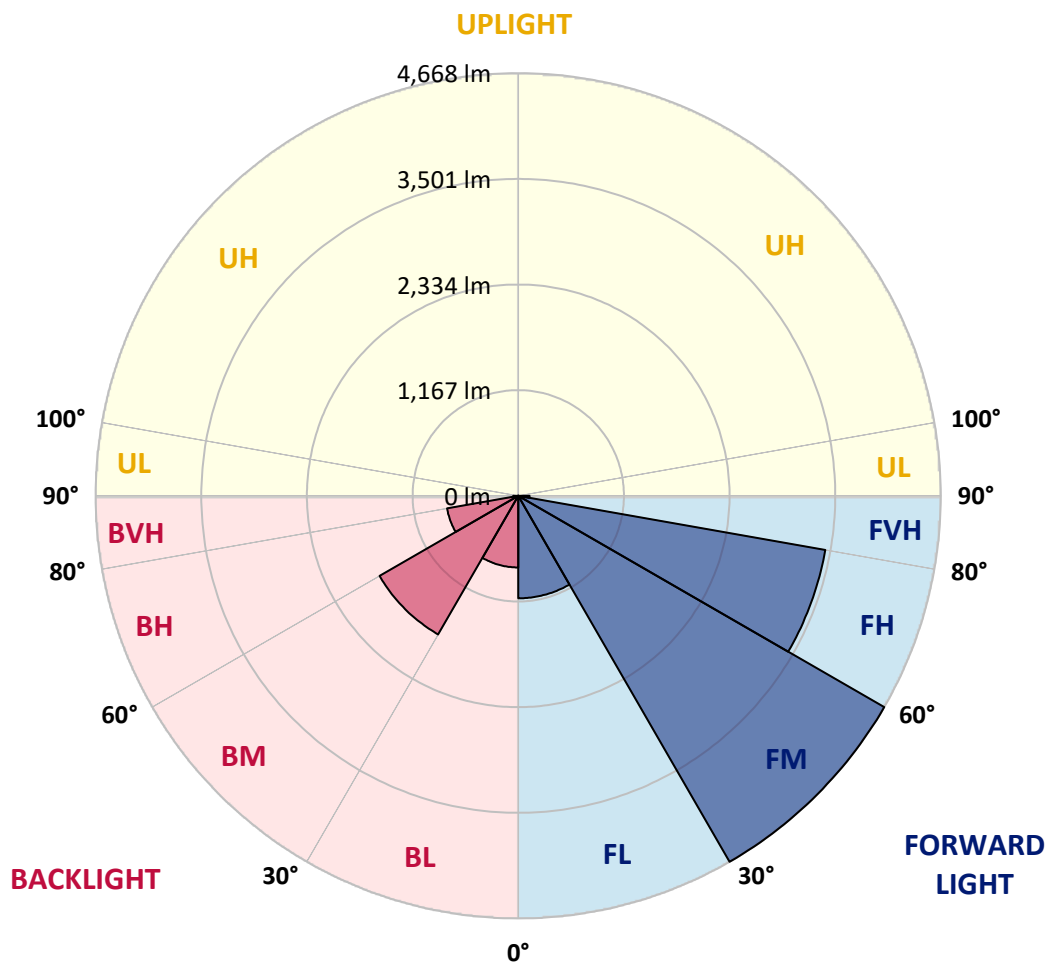
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1131.6	8.9			
FM	(30°-60°)	4668.1	36.5			
FH	(60°-80°)	3443.7	26.9			G2/5000
FVH	(80°-90°)	124.0	1.0			G2/225
BL	(0°-30°)	791.4	6.2	B2/1000		
BM	(30°-60°)	1768.8	13.8	B2/2500		
BH	(60°-80°)	798.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	56.0	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°	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8
2.5°	2225.2	2223.2	2227.1	2213.5	2196.0	2194.0	2194.0	2182.4	2168.8	2141.5	2120.1
5°	2330.2	2326.3	2328.2	2308.8	2285.5	2273.8	2271.8	2246.6	2215.4	2172.6	2133.7
7.5°	2427.4	2423.6	2421.6	2400.2	2365.2	2345.8	2343.8	2306.9	2269.9	2203.8	2147.4
10°	2518.9	2515.0	2511.1	2481.9	2439.1	2409.9	2406.0	2359.4	2312.7	2231.0	2159.0
12.5°	2635.6	2627.8	2623.9	2588.9	2526.6	2495.5	2489.7	2427.4	2369.1	2269.9	2182.4
15°	2758.1	2752.3	2746.4	2713.4	2643.3	2602.5	2592.8	2515.0	2435.2	2320.5	2217.4
17.5°	2849.5	2843.7	2843.7	2814.5	2750.3	2703.6	2695.9	2602.5	2503.3	2367.1	2244.6
20°	2905.9	2900.1	2905.9	2888.4	2839.8	2800.9	2793.1	2690.0	2571.4	2409.9	2267.9
22.5°	2946.8	2940.9	2950.7	2942.9	2907.9	2884.5	2878.7	2777.6	2641.4	2454.7	2291.3
25°	3018.7	3018.7	3018.7	3005.1	2972.1	2964.3	2964.3	2876.8	2730.9	2513.0	2326.3
27.5°	3162.7	3154.9	3145.2	3106.3	3049.9	3047.9	3059.6	2977.9	2834.0	2588.9	2369.1
30°	3374.7	3370.8	3333.8	3252.2	3156.8	3147.1	3154.9	3086.8	2944.8	2668.6	2417.7
32.5°	3648.9	3635.3	3559.5	3436.9	3300.8	3256.0	3271.6	3199.6	3061.5	2750.3	2464.4
35°	3843.5	3847.3	3792.9	3682.0	3520.6	3401.9	3413.6	3326.1	3188.0	2841.7	2522.8
37.5°	4067.1	4080.8	3999.1	3915.4	3765.7	3563.4	3575.0	3456.4	3314.4	2956.5	2585.0
40°	4376.4	4349.2	4211.1	4111.9	3946.5	3732.6	3742.3	3602.3	3460.3	3065.4	2657.0
42.5°	4635.1	4586.5	4419.2	4292.8	4094.4	3911.5	3921.3	3759.8	3608.1	3186.0	2736.7
45°	5006.6	4872.4	4631.2	4569.0	4246.1	4086.6	4096.3	3927.1	3763.7	3314.4	2822.3
47.5°	5222.5	5008.6	4854.9	4821.8	4413.4	4267.5	4279.2	4104.1	3931.0	3460.3	2911.8
50°	5208.9	5070.8	5026.1	4944.4	4561.2	4436.7	4448.4	4286.9	4100.2	3604.2	2997.4
52.5°	5119.4	5144.7	5121.4	4985.2	4709.0	4600.1	4613.7	4467.8	4273.3	3738.4	3077.1
55°	5257.5	5275.0	5230.3	5051.3	4872.4	4763.5	4779.0	4658.4	4444.5	3857.1	3145.2
57.5°	5422.9	5360.6	5315.9	5168.0	5041.6	4940.5	4958.0	4852.9	4592.3	3952.4	3197.7
60°	5415.1	5284.8	5329.5	5175.8	5156.4	5103.9	5119.4	5012.4	4705.1	4022.4	3219.1
62.5°	5016.3	4946.3	5171.9	5119.4	5249.7	5249.7	5269.2	5109.7	4773.2	4051.6	3207.4
65°	4323.9	4327.8	4724.6	4942.4	5360.6	5450.1	5465.6	5170.0	4734.3	3966.0	3098.5
67.5°	3444.7	3470.0	4039.9	4493.1	5249.7	5586.2	5588.2	5224.5	4567.0	3724.8	2845.6
70°	2520.8	2540.3	3213.3	3763.7	4726.5	5284.8	5253.6	5070.8	4203.3	3304.7	2450.8
72.5°	1703.9	1721.4	2413.8	2890.4	3878.5	4500.9	4432.8	4481.4	3582.8	2715.3	1970.4
75°	1145.6	1167.0	1717.5	2067.6	2853.4	3417.5	3265.8	3394.1	2771.7	2055.9	1437.4
77.5°	721.6	735.2	1091.2	1355.7	1949.0	2326.3	2174.6	2176.5	1596.9	1106.7	772.2
80°	459.0	462.9	661.3	781.9	1128.1	1398.5	1237.1	1005.6	719.7	587.4	461.0
82.5°	266.5	260.6	394.8	441.5	536.8	531.0	439.6	416.2	315.1	293.7	235.4
85°	107.0	99.2	173.1	161.4	163.4	173.1	128.4	128.4	103.1	79.7	58.4
87.5°	21.4	21.4	23.3	21.4	21.4	23.3	17.5	17.5	15.6	15.6	15.6
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°	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8
2.5°	2116.2	2112.3	2102.6	2077.3	2063.7	2055.9	2044.3	2040.4	2038.4	2040.4	2046.2
5°	2122.1	2108.5	2081.2	2040.4	2013.1	1995.6	1976.2	1968.4	1962.6	1962.6	1968.4
7.5°	2126.0	2104.6	2057.9	1997.6	1958.7	1931.5	1908.1	1898.4	1896.4	1902.3	1904.2
10°	2127.9	2096.8	2030.7	1954.8	1904.2	1869.2	1845.9	1840.0	1845.9	1857.5	1859.5
12.5°	2141.5	2098.7	2015.1	1925.6	1865.3	1830.3	1812.8	1812.8	1828.4	1849.8	1851.7
15°	2164.9	2112.3	2007.3	1902.3	1840.0	1808.9	1803.1	1812.8	1836.1	1869.2	1873.1
17.5°	2182.4	2120.1	1989.8	1871.2	1807.0	1787.5	1797.2	1820.6	1853.7	1898.4	1902.3
20°	2194.0	2120.1	1964.5	1834.2	1773.9	1770.0	1797.2	1834.2	1869.2	1921.7	1927.6
22.5°	2205.7	2116.2	1935.3	1789.5	1736.9	1748.6	1799.2	1845.9	1880.9	1937.3	1947.0
25°	2227.1	2122.1	1906.2	1744.7	1698.0	1731.1	1797.2	1853.7	1890.6	1949.0	1964.5
27.5°	2256.3	2135.7	1884.8	1703.9	1659.1	1703.9	1783.6	1851.7	1890.6	1947.0	1964.5
30°	2287.4	2151.2	1859.5	1659.1	1614.4	1665.0	1754.5	1830.3	1875.0	1927.6	1949.0
32.5°	2320.5	2168.8	1838.1	1610.5	1559.9	1612.5	1711.7	1797.2	1845.9	1894.5	1917.8
35°	2365.2	2199.9	1826.4	1571.6	1511.3	1558.0	1657.2	1754.5	1807.0	1851.7	1878.9
37.5°	2419.7	2238.8	1820.6	1532.7	1458.8	1497.7	1598.8	1701.9	1758.3	1795.3	1820.6
40°	2481.9	2287.4	1818.6	1495.8	1406.3	1435.5	1538.5	1641.6	1696.1	1725.3	1746.7
42.5°	2551.9	2341.9	1814.7	1458.8	1353.8	1377.1	1480.2	1581.3	1628.0	1653.3	1672.8
45°	2625.8	2396.3	1807.0	1414.1	1297.4	1324.6	1419.9	1509.4	1558.0	1579.4	1600.8
47.5°	2699.8	2450.8	1791.4	1363.5	1246.8	1272.1	1355.7	1433.5	1472.4	1491.9	1513.3
50°	2771.7	2499.4	1754.5	1305.1	1194.3	1217.6	1281.8	1334.3	1363.5	1379.1	1400.4
52.5°	2835.9	2532.5	1701.9	1237.1	1141.8	1153.4	1196.2	1241.0	1264.3	1266.2	1285.7
55°	2890.4	2550.0	1626.1	1167.0	1085.3	1087.3	1110.6	1145.6	1155.4	1147.6	1161.2
57.5°	2921.5	2540.3	1542.4	1095.1	1027.0	1019.2	1036.7	1054.2	1056.2	1036.7	1050.3
60°	2929.3	2495.5	1433.5	1023.1	968.6	947.2	953.1	949.2	945.3	937.5	949.2
62.5°	2890.4	2400.2	1312.9	953.1	906.4	873.3	871.4	869.4	875.3	877.2	879.2
65°	2748.4	2221.3	1169.0	881.1	840.3	795.5	793.6	816.9	824.7	813.0	816.9
67.5°	2474.1	1947.0	1011.4	797.5	756.6	717.7	733.3	746.9	760.5	756.6	760.5
70°	2085.1	1598.8	867.5	704.1	665.2	643.8	661.3	673.0	674.9	671.0	674.9
72.5°	1639.7	1248.7	733.3	608.8	573.8	564.1	585.5	595.2	612.7	620.5	622.4
75°	1184.5	922.0	601.0	505.7	476.5	476.5	496.0	513.5	529.1	519.3	513.5
77.5°	661.3	550.5	431.8	348.2	354.0	381.2	389.0	408.5	424.0	422.1	418.2
80°	400.7	344.3	291.8	225.6	223.7	245.1	295.7	328.7	336.5	319.0	317.0
82.5°	208.1	180.9	155.6	126.4	140.0	163.4	171.2	206.2	227.6	219.8	229.5
85°	52.5	50.6	56.4	58.4	72.0	79.7	87.5	103.1	68.1	33.1	33.1
87.5°	15.6	15.6	19.5	19.5	25.3	31.1	29.2	29.2	15.6	1.9	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)