

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: P836680

Luminaire Tested: **ARCH3-60-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10051 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

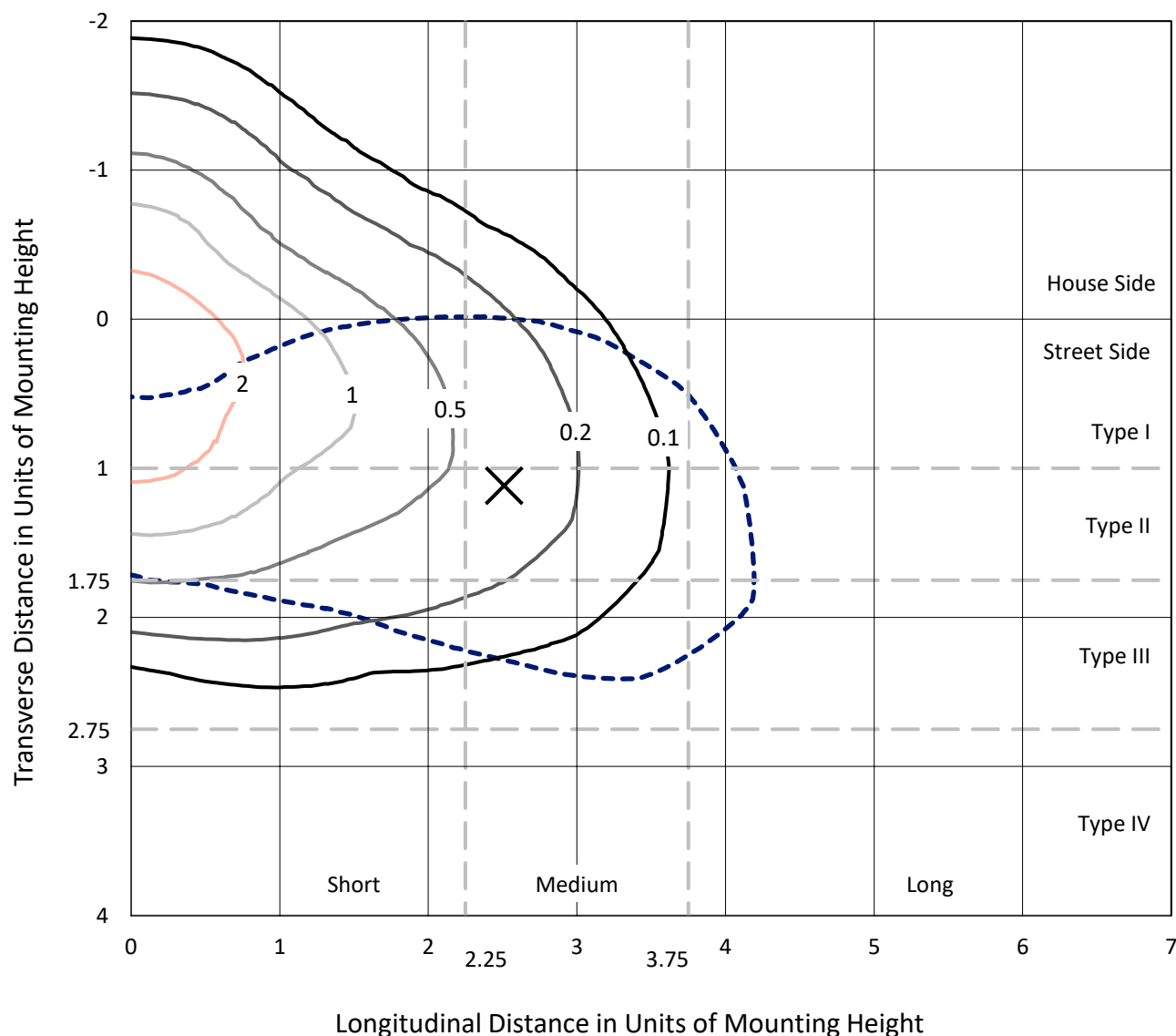
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

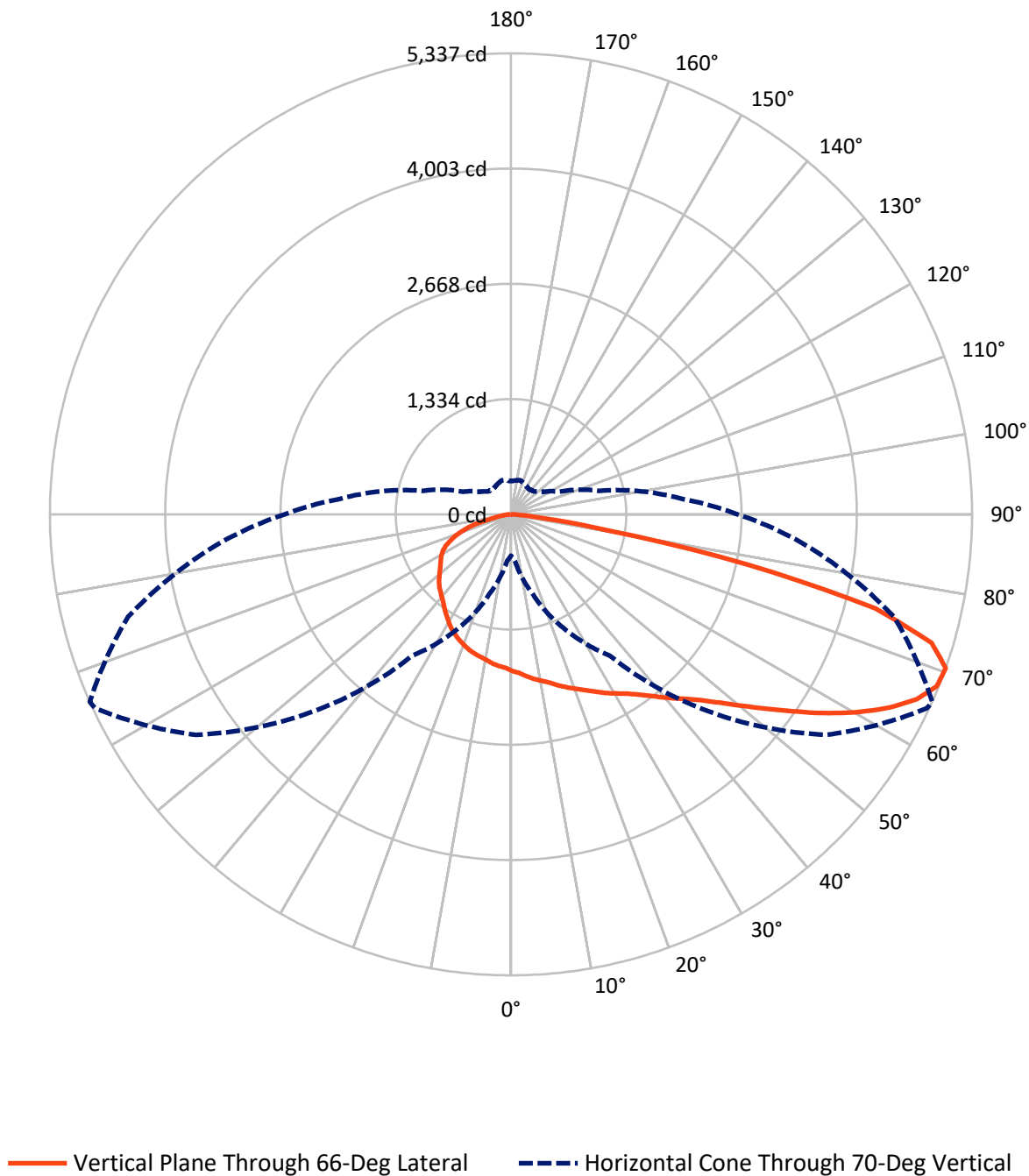
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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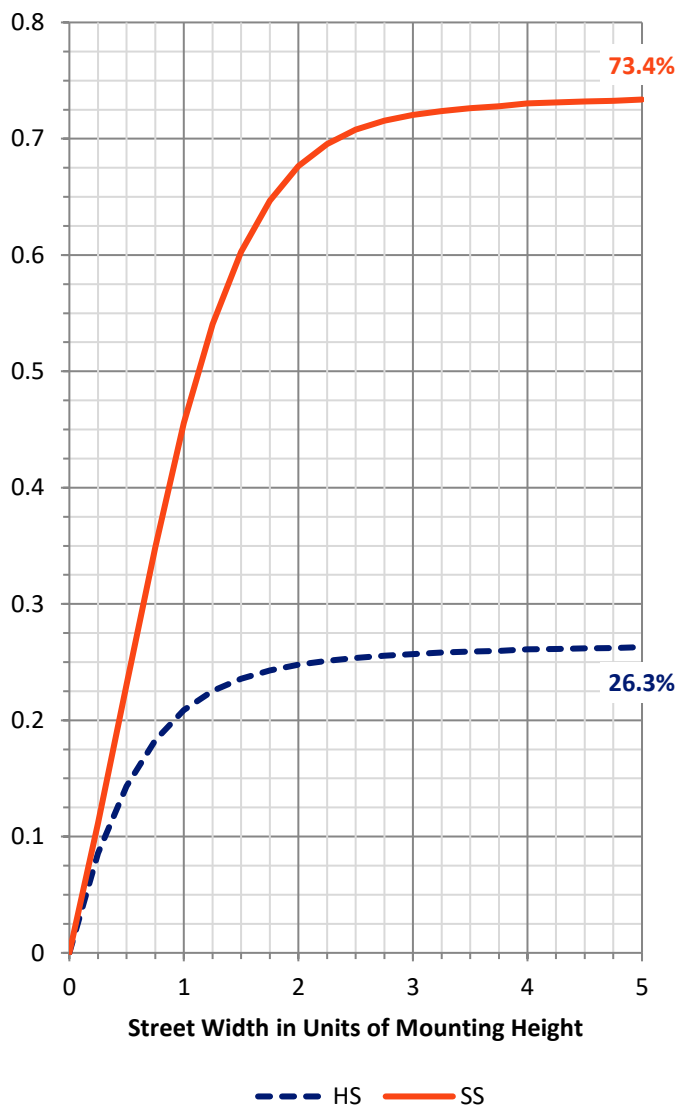
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2663.3	0.0	2663.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7387.7	0.0	7387.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	10051.0	0.0	10051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.7
10°-20°	522.8	5.2
20°-30°	876.5	8.7
30°-40°	1312.4	13.1
40°-50°	1754.6	17.5
50°-60°	2048.6	20.4
60°-70°	2037.0	20.3
70°-80°	1205.9	12.0
80°-90°	118.9	1.2
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°	10051.0	100.0
0°-180°	10051.0	100.0

Coefficient of Utilization



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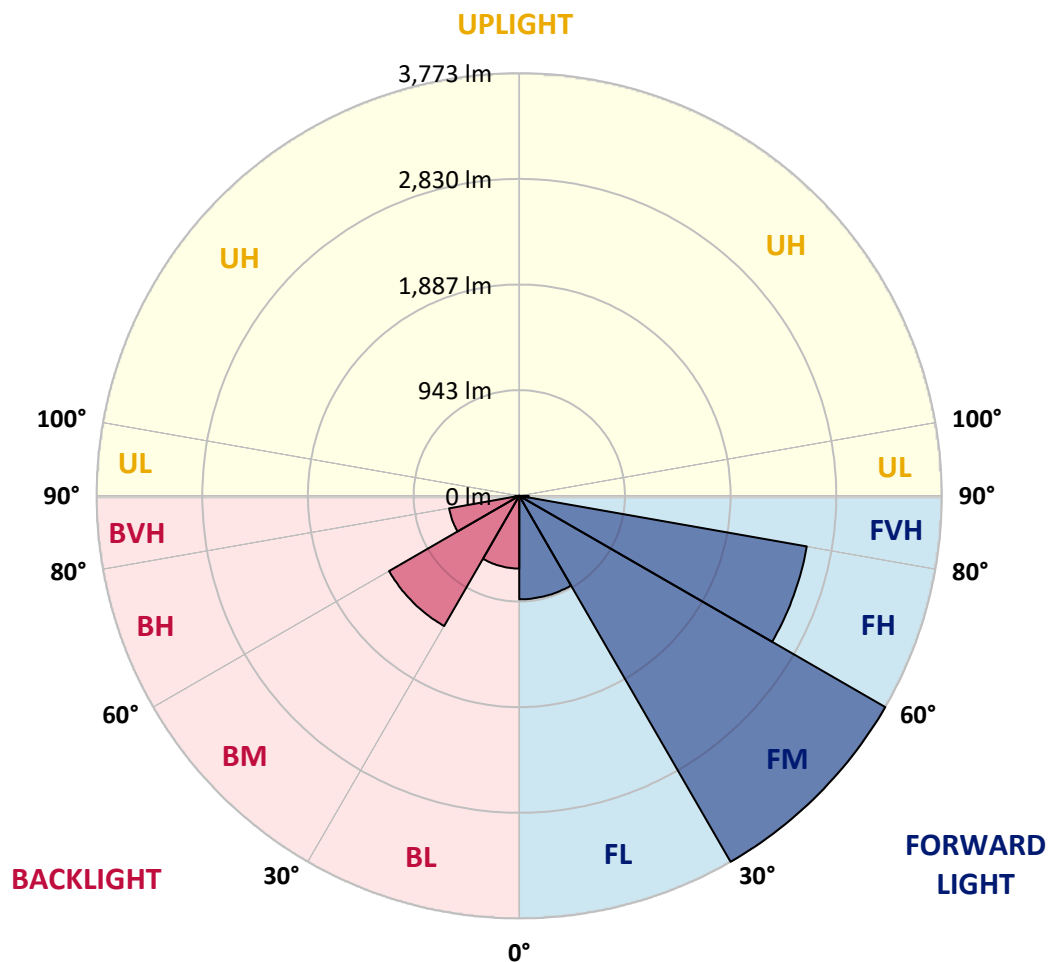
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.4	9.2			
FM	(30°-60°)	3773.0	37.5			
FH	(60°-80°)	2606.8	25.9			G2/5000
FVH	(80°-90°)	83.5	0.8			G1/100
BL	(0°-30°)	649.2	6.5	B2/1000		
BM	(30°-60°)	1342.6	13.4	B2/2500		
BH	(60°-80°)	636.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	35.3	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0
2.5°	1880.7	1877.7	1876.2	1870.3	1857.0	1862.9	1849.5	1840.7	1839.2	1818.4	1806.6
5°	1957.7	1956.2	1953.3	1944.4	1923.6	1926.6	1904.4	1888.1	1883.6	1851.0	1825.8
7.5°	2022.9	2020.0	2018.5	2006.6	1984.4	1982.9	1956.2	1932.5	1925.1	1880.7	1842.1
10°	2073.3	2068.9	2071.8	2060.0	2036.3	2031.8	1997.7	1966.6	1959.2	1902.9	1849.5
12.5°	2116.3	2113.3	2117.8	2107.4	2088.1	2083.7	2049.6	2009.6	2000.7	1935.5	1865.8
15°	2163.7	2153.4	2162.2	2157.8	2144.5	2143.0	2111.9	2067.4	2055.5	1977.0	1891.0
17.5°	2188.9	2183.0	2193.4	2194.9	2188.9	2199.3	2169.7	2116.3	2105.9	2015.5	1913.3
20°	2206.7	2197.8	2209.7	2218.6	2223.0	2243.8	2220.0	2168.2	2156.3	2052.6	1934.0
22.5°	2267.5	2248.2	2249.7	2255.6	2258.6	2288.2	2273.4	2223.0	2211.2	2098.5	1959.2
25°	2420.1	2381.6	2356.4	2338.6	2317.9	2343.1	2334.2	2285.3	2274.9	2153.4	1990.3
27.5°	2657.2	2608.3	2557.9	2506.1	2424.6	2414.2	2399.4	2354.9	2343.1	2208.2	2021.5
30°	2927.0	2878.1	2818.8	2735.8	2583.1	2503.1	2469.0	2420.1	2406.8	2257.1	2051.1
32.5°	3195.2	3152.2	3092.9	2992.2	2774.3	2611.3	2538.7	2488.3	2475.0	2310.4	2086.7
35°	3404.2	3377.5	3339.0	3213.0	2964.0	2738.7	2639.5	2578.7	2563.9	2394.9	2151.9
37.5°	3573.1	3553.9	3521.2	3389.4	3101.8	2866.2	2755.1	2685.4	2669.1	2486.8	2221.5
40°	3822.1	3771.7	3745.0	3553.9	3221.9	2981.8	2885.5	2812.8	2795.1	2584.6	2277.8
42.5°	4034.0	3997.0	3964.4	3700.6	3336.0	3081.1	3008.5	2941.8	2918.1	2681.0	2338.6
45°	4069.6	4084.4	4068.1	3773.2	3516.8	3178.9	3133.0	3090.0	3067.8	2811.4	2430.5
47.5°	4071.1	4071.1	3974.7	3814.7	3740.6	3288.6	3266.3	3281.2	3257.5	2977.4	2540.2
50°	3964.4	3983.6	3933.2	3825.1	3799.9	3398.2	3429.4	3509.4	3485.7	3153.7	2658.7
52.5°	3743.5	3807.3	3805.8	3808.8	3713.9	3491.6	3601.3	3783.6	3743.5	3352.3	2784.7
55°	3353.8	3481.2	3595.3	3693.2	3639.8	3547.9	3811.7	4075.5	4034.0	3574.6	2912.1
57.5°	3020.3	3101.8	3244.1	3521.2	3552.4	3596.8	4008.8	4380.8	4343.8	3820.6	3045.5
60°	2639.5	2752.1	2894.4	3288.6	3445.7	3660.6	4225.2	4678.7	4643.1	4069.6	3174.5
62.5°	2054.1	2199.3	2483.8	2931.4	3290.1	3700.6	4395.6	4941.0	4924.7	4305.2	3290.1
65°	1431.6	1560.6	1959.2	2492.7	3042.6	3682.8	4532.0	5175.2	5160.3	4497.9	3371.6
67.5°	835.9	985.5	1436.1	2006.6	2605.4	3559.8	4576.4	5313.0	5313.0	4615.0	3393.8
70°	477.2	546.9	947.0	1462.7	1997.7	3220.4	4451.9	5311.5	5336.7	4588.3	3301.9
72.5°	333.5	364.6	637.3	984.1	1354.6	2605.4	4125.9	5055.1	5089.2	4336.4	2987.7
75°	259.4	281.6	449.0	671.3	853.6	1769.5	3413.1	4262.3	4352.7	3696.1	2415.7
77.5°	197.1	213.4	262.3	419.4	546.9	1016.7	2252.7	2795.1	2801.0	2263.0	1295.3
80°	143.8	160.1	174.9	256.4	290.5	475.7	850.7	1167.8	1135.2	1095.2	701.0
82.5°	86.0	102.3	106.7	139.3	142.3	203.0	297.9	376.4	361.6	481.7	329.0
85°	37.1	51.9	54.8	63.7	60.8	83.0	118.6	99.3	88.9	102.3	71.1
87.5°	8.9	14.8	14.8	16.3	13.3	20.7	22.2	16.3	14.8	17.8	17.8
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°	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0	1814.0
2.5°	1803.6	1799.2	1800.6	1775.4	1768.0	1760.6	1756.2	1753.2	1750.3	1754.7	1759.1
5°	1816.9	1806.6	1794.7	1757.7	1742.8	1726.5	1714.7	1704.3	1699.9	1699.9	1704.3
7.5°	1827.3	1809.5	1784.3	1735.4	1708.8	1686.5	1667.3	1653.9	1646.5	1646.5	1651.0
10°	1828.8	1803.6	1763.6	1704.3	1668.7	1636.1	1613.9	1599.1	1588.7	1588.7	1591.7
12.5°	1837.7	1803.6	1751.7	1680.6	1636.1	1596.1	1569.4	1547.2	1542.8	1542.8	1545.7
15°	1852.5	1811.0	1744.3	1659.8	1606.5	1560.6	1530.9	1507.2	1498.3	1504.2	1505.7
17.5°	1865.8	1815.5	1731.0	1633.2	1569.4	1519.1	1486.5	1465.7	1453.8	1467.2	1467.2
20°	1874.7	1815.5	1711.7	1599.1	1529.4	1473.1	1442.0	1416.8	1407.9	1424.2	1425.7
22.5°	1888.1	1814.0	1691.0	1565.0	1486.5	1427.2	1396.1	1376.8	1372.3	1390.1	1396.1
25°	1902.9	1816.9	1668.7	1526.5	1439.0	1381.2	1357.5	1348.6	1351.6	1373.8	1381.2
27.5°	1919.2	1822.9	1646.5	1483.5	1387.2	1335.3	1322.0	1326.4	1338.3	1366.4	1375.3
30°	1934.0	1824.4	1615.4	1433.1	1327.9	1279.0	1284.9	1304.2	1322.0	1350.1	1360.5
32.5°	1953.3	1825.8	1582.8	1378.3	1264.2	1228.6	1255.3	1286.4	1304.2	1330.8	1342.7
35°	2000.7	1851.0	1557.6	1324.9	1204.9	1185.6	1230.1	1270.1	1280.5	1304.2	1314.5
37.5°	2055.5	1892.5	1544.3	1270.1	1147.1	1142.6	1198.9	1239.0	1241.9	1256.7	1267.1
40°	2089.6	1910.3	1529.4	1224.1	1095.2	1098.2	1156.0	1187.1	1181.2	1191.5	1198.9
42.5°	2123.7	1916.2	1498.3	1185.6	1046.3	1049.3	1093.7	1116.0	1118.9	1141.1	1151.5
45°	2181.5	1932.5	1464.2	1150.0	1001.8	991.5	1018.1	1047.8	1086.3	1129.3	1141.1
47.5°	2258.6	1966.6	1428.7	1107.1	958.9	924.8	935.1	987.0	1027.0	1067.0	1074.5
50°	2337.1	2000.7	1396.1	1055.2	915.9	853.6	858.1	905.5	938.1	969.2	973.7
52.5°	2414.2	2030.3	1367.9	1006.3	867.0	769.2	786.9	835.9	858.1	872.9	877.3
55°	2491.3	2055.5	1342.7	964.8	810.7	702.5	718.8	764.7	786.9	794.4	797.3
57.5°	2571.3	2085.2	1323.4	929.2	746.9	643.2	653.6	686.2	706.9	715.8	712.8
60°	2638.0	2110.4	1313.1	892.2	683.2	588.4	585.4	615.0	644.7	653.6	650.6
62.5°	2689.8	2126.7	1296.8	844.7	626.9	533.5	518.7	557.2	588.4	594.3	598.7
65°	2718.0	2128.2	1256.7	784.0	569.1	474.2	463.9	502.4	521.7	527.6	527.6
67.5°	2713.6	2104.4	1178.2	702.5	515.7	420.9	412.0	435.7	463.9	468.3	463.9
70°	2621.7	2006.6	1052.2	616.5	452.0	373.5	357.2	380.9	407.6	391.2	383.8
72.5°	2360.8	1753.2	867.0	521.7	380.9	314.2	306.8	330.5	332.0	334.9	327.5
75°	1862.9	1305.6	649.1	406.1	308.3	263.8	262.3	257.9	263.8	275.7	266.8
77.5°	978.1	652.1	351.2	249.0	223.8	211.9	201.6	200.1	217.9	225.3	216.4
80°	530.6	366.1	201.6	149.7	136.3	137.8	151.2	148.2	167.5	171.9	164.5
82.5°	231.2	173.4	99.3	90.4	90.4	88.9	93.4	103.7	124.5	124.5	99.3
85°	50.4	43.0	38.5	44.5	50.4	50.4	50.4	50.4	35.6	19.3	13.3
87.5°	16.3	16.3	16.3	17.8	19.3	19.3	16.3	11.9	7.4	1.5	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)