

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: P842529

Luminaire Tested: **ARCH4-60-727-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10444 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63
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



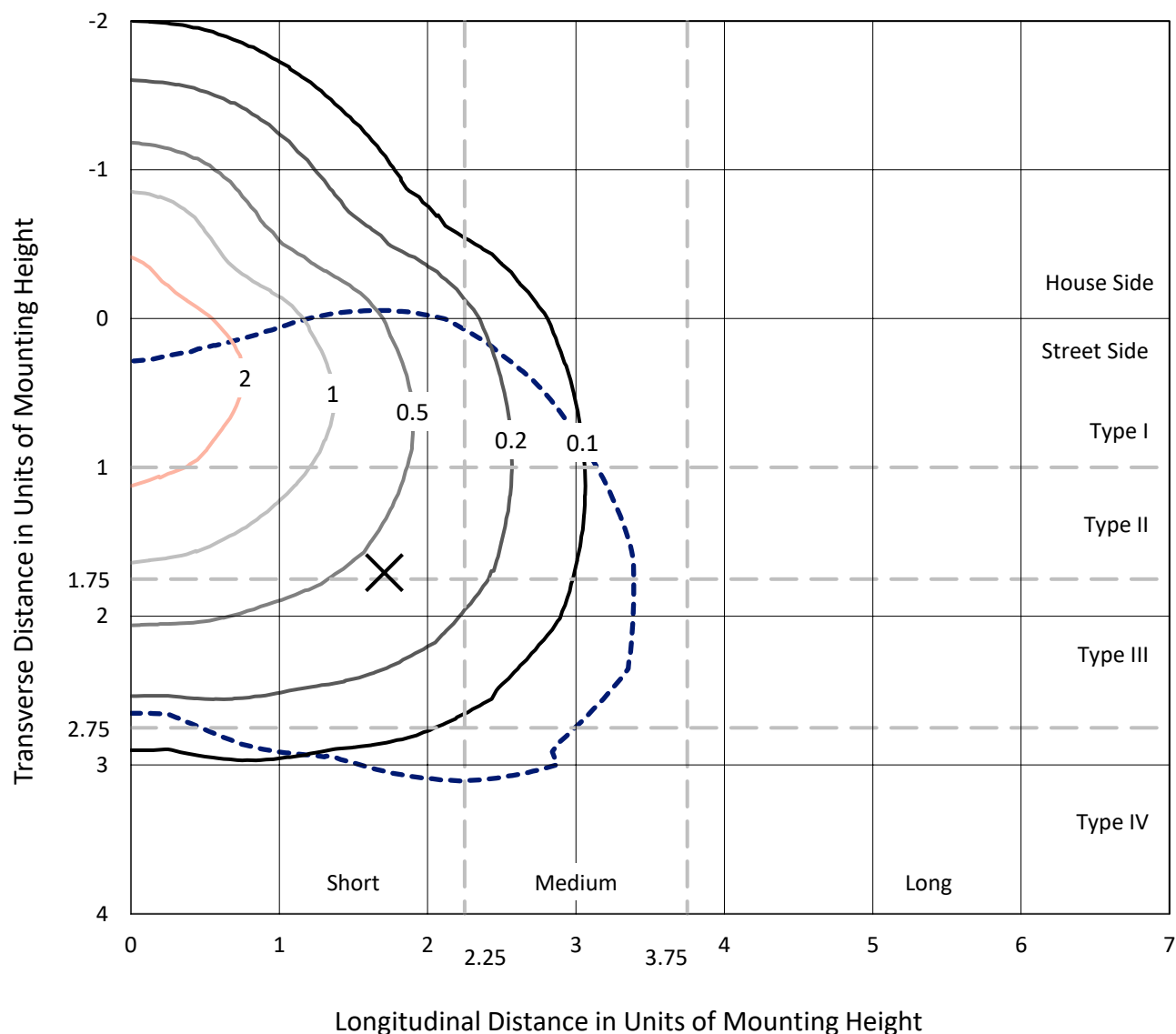
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

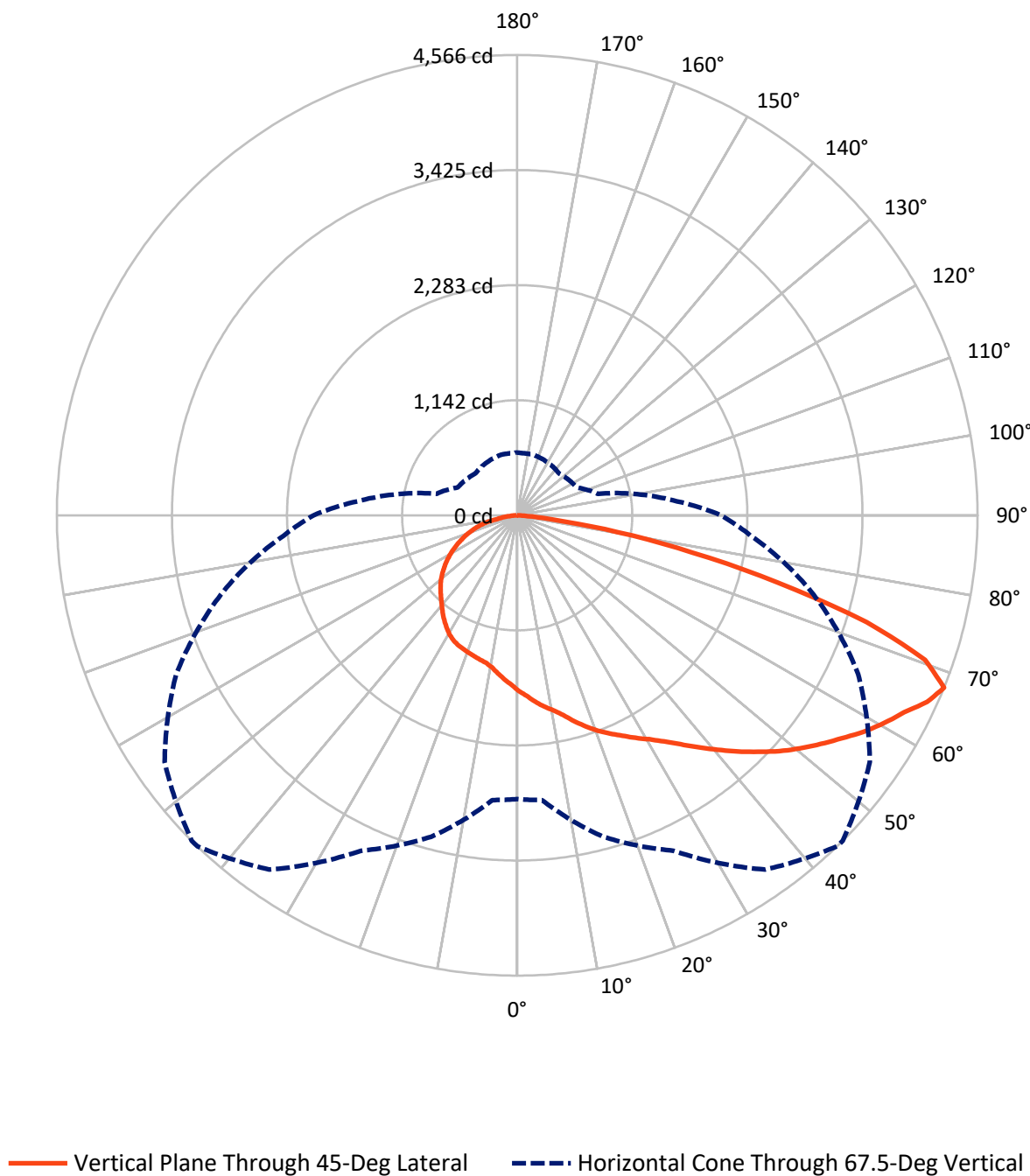


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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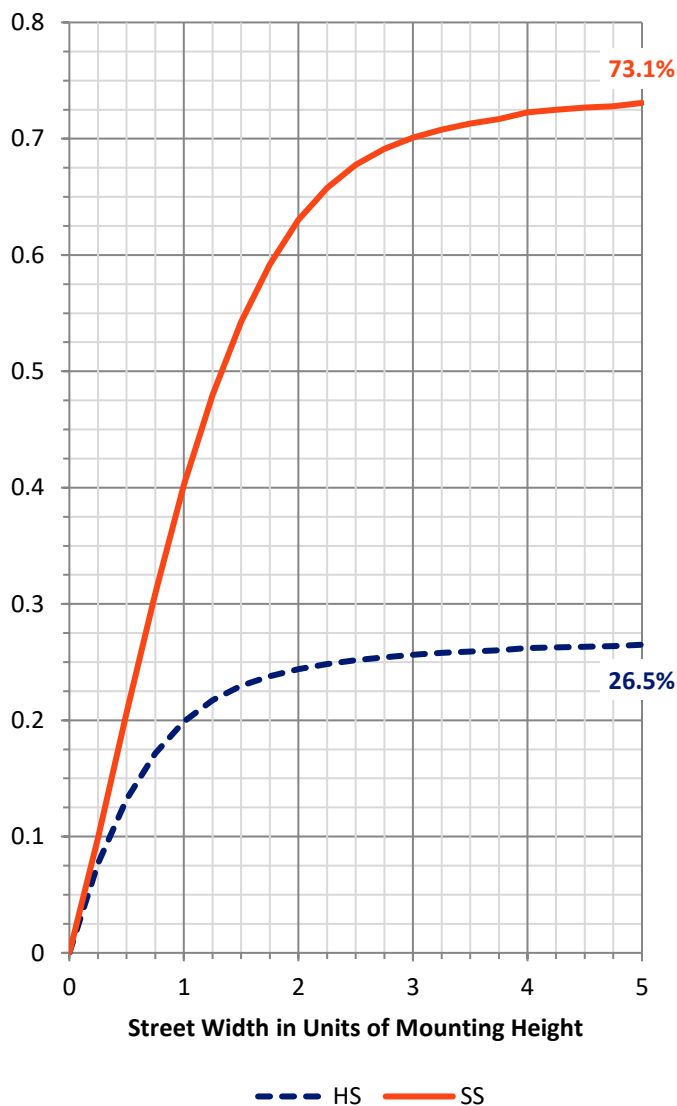
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2790.1	0.0	2790.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7653.9	0.0	7653.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	10444.0	0.0	10444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.6
10°-20°	515.2	4.9
20°-30°	889.3	8.5
30°-40°	1311.4	12.6
40°-50°	1776.6	17.0
50°-60°	2171.5	20.8
60°-70°	2239.6	21.4
70°-80°	1226.7	11.7
80°-90°	147.0	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°	10444.0	100.0
0°-180°	10444.0	100.0

Coefficient of Utilization



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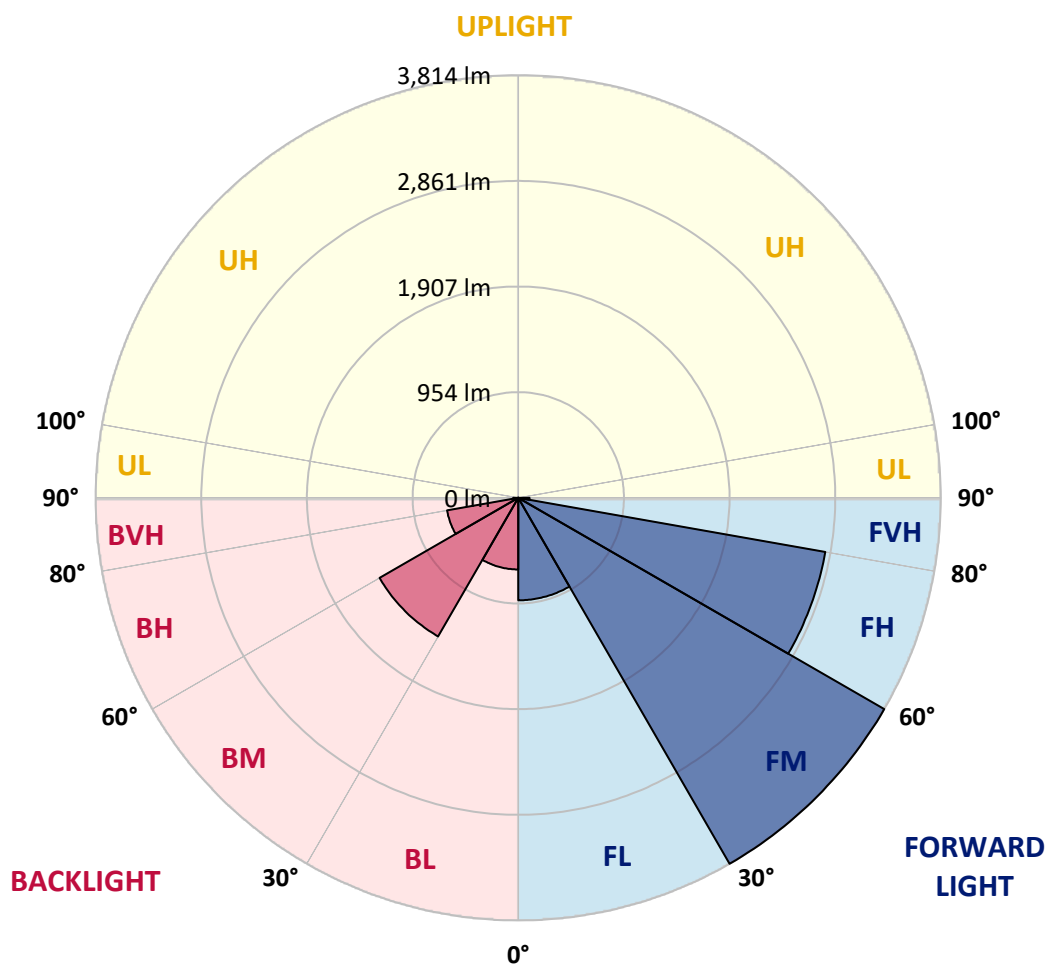
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.6	8.9			
FM	(30°-60°)	3814.3	36.5			
FH	(60°-80°)	2813.8	26.9			G2/5000
FVH	(80°-90°)	101.3	1.0			G2/225
BL	(0°-30°)	646.7	6.2	B2/1000		
BM	(30°-60°)	1445.2	13.8	B2/2500		
BH	(60°-80°)	652.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	45.7	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°	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1818.1	1816.6	1819.7	1808.6	1794.3	1792.7	1792.7	1783.2	1772.1	1749.8	1732.3
5°	1904.0	1900.8	1902.4	1886.5	1867.4	1857.9	1856.3	1835.6	1810.2	1775.2	1743.5
7.5°	1983.4	1980.3	1978.7	1961.2	1932.6	1916.7	1915.1	1884.9	1854.7	1800.7	1754.6
10°	2058.1	2055.0	2051.8	2027.9	1993.0	1969.1	1966.0	1927.8	1889.7	1822.9	1764.1
12.5°	2153.5	2147.1	2144.0	2115.3	2064.5	2039.1	2034.3	1983.4	1935.8	1854.7	1783.2
15°	2253.6	2248.8	2244.1	2217.1	2159.8	2126.5	2118.5	2055.0	1989.8	1896.0	1811.8
17.5°	2328.3	2323.5	2323.5	2299.7	2247.3	2209.1	2202.8	2126.5	2045.4	1934.2	1834.0
20°	2374.4	2369.6	2374.4	2360.1	2320.4	2288.6	2282.2	2198.0	2101.0	1969.1	1853.1
22.5°	2407.8	2403.0	2411.0	2404.6	2376.0	2356.9	2352.1	2269.5	2158.3	2005.7	1872.2
25°	2466.6	2466.6	2466.6	2455.5	2428.4	2422.1	2422.1	2350.6	2231.4	2053.4	1900.8
27.5°	2584.2	2577.8	2569.9	2538.1	2492.0	2490.4	2500.0	2433.2	2315.6	2115.3	1935.8
30°	2757.4	2754.2	2724.0	2657.3	2579.4	2571.5	2577.8	2522.2	2406.2	2180.5	1975.5
32.5°	2981.5	2970.4	2908.4	2808.3	2697.0	2660.5	2673.2	2614.4	2501.5	2247.3	2013.6
35°	3140.4	3143.6	3099.1	3008.5	2876.6	2779.7	2789.2	2717.7	2604.8	2322.0	2061.3
37.5°	3323.2	3334.3	3267.6	3199.2	3076.9	2911.6	2921.1	2824.2	2708.1	2415.7	2112.2
40°	3575.9	3553.7	3440.8	3359.8	3224.7	3049.8	3057.8	2943.4	2827.3	2504.7	2171.0
42.5°	3787.3	3747.5	3610.9	3507.6	3345.5	3196.1	3204.0	3072.1	2948.1	2603.3	2236.1
45°	4090.8	3981.2	3784.1	3733.2	3469.4	3339.1	3347.0	3208.8	3075.3	2708.1	2306.1
47.5°	4267.2	4092.4	3966.9	3939.8	3606.1	3486.9	3496.4	3353.4	3212.0	2827.3	2379.2
50°	4256.1	4143.3	4106.7	4040.0	3726.9	3625.2	3634.7	3502.8	3350.2	2945.0	2449.1
52.5°	4183.0	4203.7	4184.6	4073.3	3847.7	3758.7	3769.8	3650.6	3491.7	3054.6	2514.3
55°	4295.8	4310.2	4273.6	4127.4	3981.2	3892.2	3904.9	3806.3	3631.5	3151.6	2569.9
57.5°	4430.9	4380.1	4343.5	4222.7	4119.4	4036.8	4051.1	3965.3	3752.3	3229.4	2612.8
60°	4424.6	4318.1	4354.7	4229.1	4213.2	4170.3	4183.0	4095.6	3844.5	3286.7	2630.3
62.5°	4098.8	4041.6	4225.9	4183.0	4289.5	4289.5	4305.4	4175.1	3900.1	3310.5	2620.7
65°	3533.0	3536.2	3860.4	4038.4	4380.1	4453.2	4465.9	4224.3	3868.3	3240.6	2531.7
67.5°	2814.6	2835.3	3301.0	3671.3	4289.5	4564.4	4566.0	4268.8	3731.7	3043.5	2325.1
70°	2059.7	2075.6	2625.5	3075.3	3862.0	4318.1	4292.7	4143.3	3434.5	2700.2	2002.5
72.5°	1392.2	1406.5	1972.3	2361.7	3169.0	3677.6	3622.0	3661.7	2927.5	2218.6	1610.0
75°	936.1	953.6	1403.3	1689.4	2331.5	2792.4	2668.4	2773.3	2264.7	1679.9	1174.5
77.5°	589.6	600.8	891.6	1107.7	1592.5	1900.8	1776.8	1778.4	1304.8	904.3	630.9
80°	375.1	378.3	540.4	638.9	921.8	1142.7	1010.8	821.7	588.0	480.0	376.7
82.5°	217.7	213.0	322.6	360.8	438.6	433.9	359.2	340.1	257.5	240.0	192.3
85°	87.4	81.1	141.4	131.9	133.5	141.4	104.9	104.9	84.2	65.2	47.7
87.5°	17.5	17.5	19.1	17.5	17.5	19.1	14.3	14.3	12.7	12.7	12.7
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°	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1729.1	1726.0	1718.0	1697.4	1686.2	1679.9	1670.3	1667.2	1665.6	1667.2	1671.9
5°	1733.9	1722.8	1700.5	1667.2	1644.9	1630.6	1614.7	1608.4	1603.6	1603.6	1608.4
7.5°	1737.1	1719.6	1681.5	1632.2	1600.4	1578.2	1559.1	1551.1	1549.6	1554.3	1555.9
10°	1738.7	1713.3	1659.2	1597.2	1555.9	1527.3	1508.2	1503.5	1508.2	1517.8	1519.4
12.5°	1749.8	1714.8	1646.5	1573.4	1524.1	1495.5	1481.2	1481.2	1493.9	1511.4	1513.0
15°	1768.9	1726.0	1640.1	1554.3	1503.5	1478.0	1473.3	1481.2	1500.3	1527.3	1530.5
17.5°	1783.2	1732.3	1625.8	1528.9	1476.4	1460.6	1468.5	1487.6	1514.6	1551.1	1554.3
20°	1792.7	1732.3	1605.2	1498.7	1449.4	1446.3	1468.5	1498.7	1527.3	1570.2	1575.0
22.5°	1802.3	1729.1	1581.3	1462.1	1419.2	1428.8	1470.1	1508.2	1536.8	1582.9	1590.9
25°	1819.7	1733.9	1557.5	1425.6	1387.4	1414.5	1468.5	1514.6	1544.8	1592.5	1605.2
27.5°	1843.6	1745.0	1540.0	1392.2	1355.7	1392.2	1457.4	1513.0	1544.8	1590.9	1605.2
30°	1869.0	1757.8	1519.4	1355.7	1319.1	1360.4	1433.5	1495.5	1532.1	1575.0	1592.5
32.5°	1896.0	1772.1	1501.9	1315.9	1274.6	1317.5	1398.6	1468.5	1508.2	1548.0	1567.0
35°	1932.6	1797.5	1492.3	1284.1	1234.9	1273.0	1354.1	1433.5	1476.4	1513.0	1535.3
37.5°	1977.1	1829.3	1487.6	1252.4	1192.0	1223.8	1306.4	1390.6	1436.7	1466.9	1487.6
40°	2027.9	1869.0	1486.0	1222.2	1149.1	1172.9	1257.1	1341.4	1385.9	1409.7	1427.2
42.5°	2085.1	1913.5	1482.8	1192.0	1106.1	1125.2	1209.4	1292.1	1330.2	1350.9	1366.8
45°	2145.5	1958.0	1476.4	1155.4	1060.1	1082.3	1160.2	1233.3	1273.0	1290.5	1308.0
47.5°	2205.9	2002.5	1463.7	1114.1	1018.7	1039.4	1107.7	1171.3	1203.1	1219.0	1236.5
50°	2264.7	2042.2	1433.5	1066.4	975.8	994.9	1047.3	1090.3	1114.1	1126.8	1144.3
52.5°	2317.2	2069.3	1390.6	1010.8	932.9	942.4	977.4	1014.0	1033.0	1034.6	1050.5
55°	2361.7	2083.6	1328.6	953.6	886.8	888.4	907.5	936.1	944.0	937.7	948.8
57.5°	2387.1	2075.6	1260.3	894.8	839.1	832.8	847.1	861.4	863.0	847.1	858.2
60°	2393.5	2039.1	1171.3	836.0	791.5	774.0	778.8	775.6	772.4	766.0	775.6
62.5°	2361.7	1961.2	1072.8	778.8	740.6	713.6	712.0	710.4	715.2	716.8	718.4
65°	2245.7	1815.0	955.2	719.9	686.6	650.0	648.4	667.5	673.9	664.3	667.5
67.5°	2021.6	1590.9	826.4	651.6	618.2	586.4	599.2	610.3	621.4	618.2	621.4
70°	1703.7	1306.4	708.8	575.3	543.5	526.1	540.4	549.9	551.5	548.3	551.5
72.5°	1339.8	1020.3	599.2	497.4	468.8	460.9	478.4	486.3	500.6	507.0	508.6
75°	967.9	753.3	491.1	413.2	389.4	389.4	405.3	419.6	432.3	424.3	419.6
77.5°	540.4	449.8	352.8	284.5	289.3	311.5	317.9	333.8	346.5	344.9	341.7
80°	327.4	281.3	238.4	184.4	182.8	200.3	241.6	268.6	274.9	260.6	259.1
82.5°	170.1	147.8	127.1	103.3	114.4	133.5	139.9	168.5	185.9	179.6	187.5
85°	42.9	41.3	46.1	47.7	58.8	65.2	71.5	84.2	55.6	27.0	27.0
87.5°	12.7	12.7	15.9	15.9	20.7	25.4	23.8	23.8	12.7	1.6	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)