

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: P800025

Luminaire Tested: **ARCH2-70-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

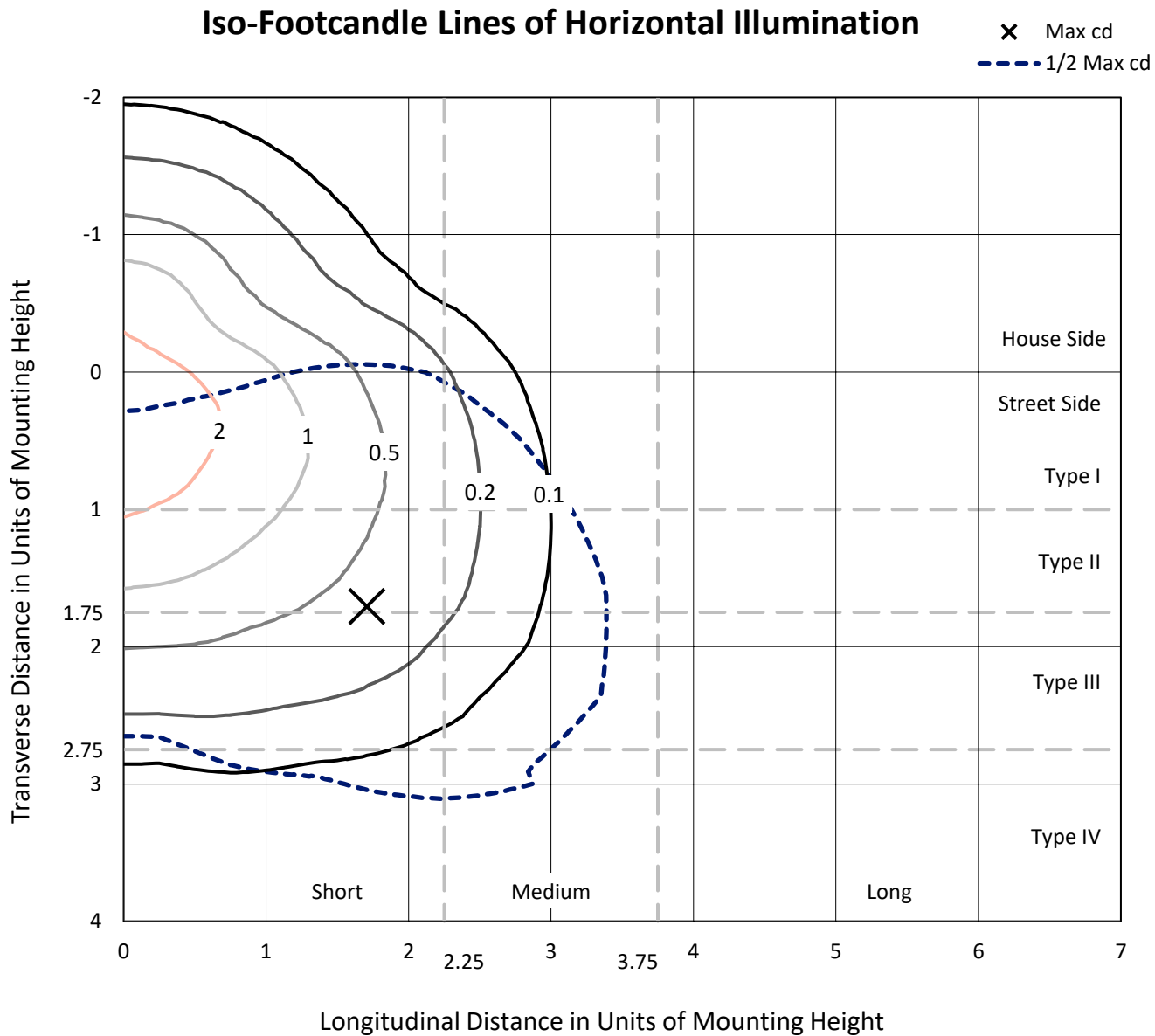
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9603 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.6
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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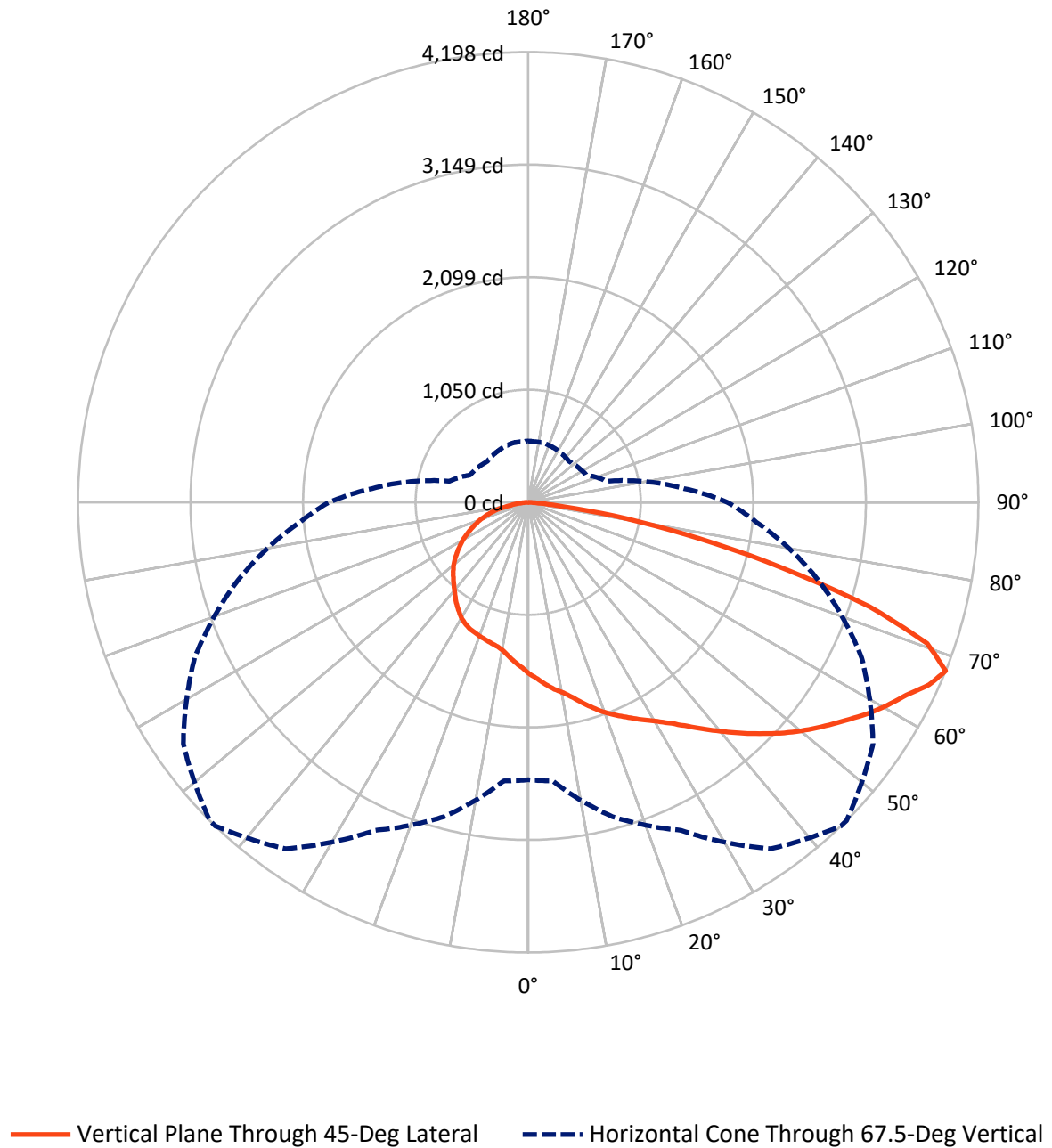


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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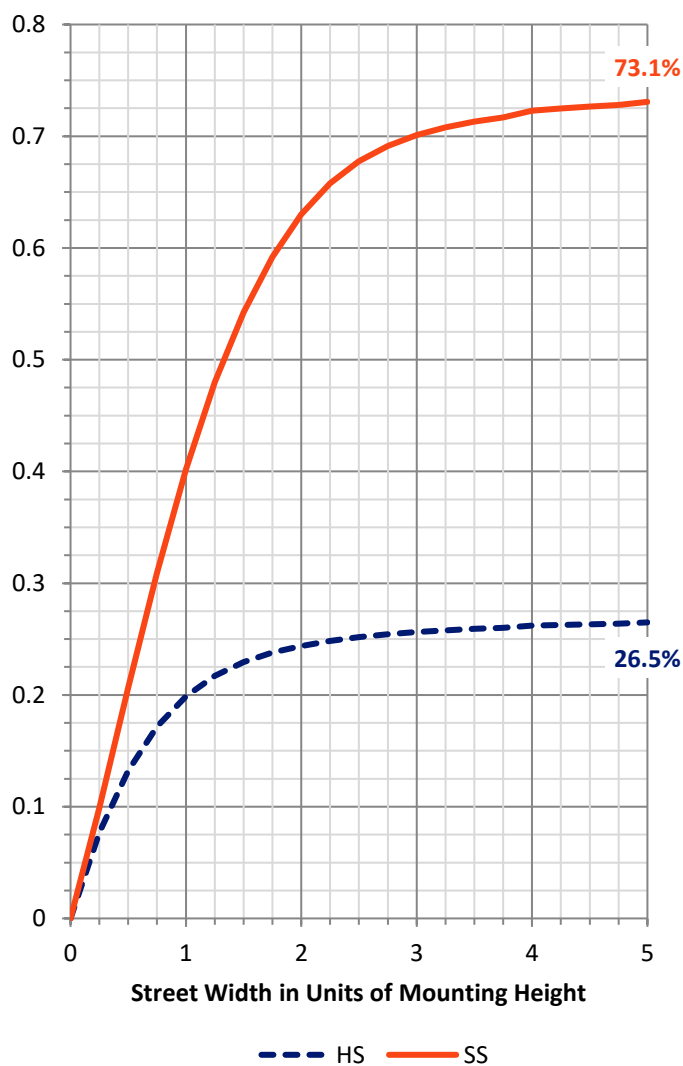
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2565.5	0.0	2565.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7037.5	0.0	7037.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	9603.0	0.0	9603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	1.6
10°-20°	473.7	4.9
20°-30°	817.7	8.5
30°-40°	1205.8	12.6
40°-50°	1633.6	17.0
50°-60°	1996.6	20.8
60°-70°	2059.2	21.4
70°-80°	1127.9	11.7
80°-90°	135.2	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°	9603.0	100.0
0°-180°	9603.0	100.0

Coefficient of Utilization



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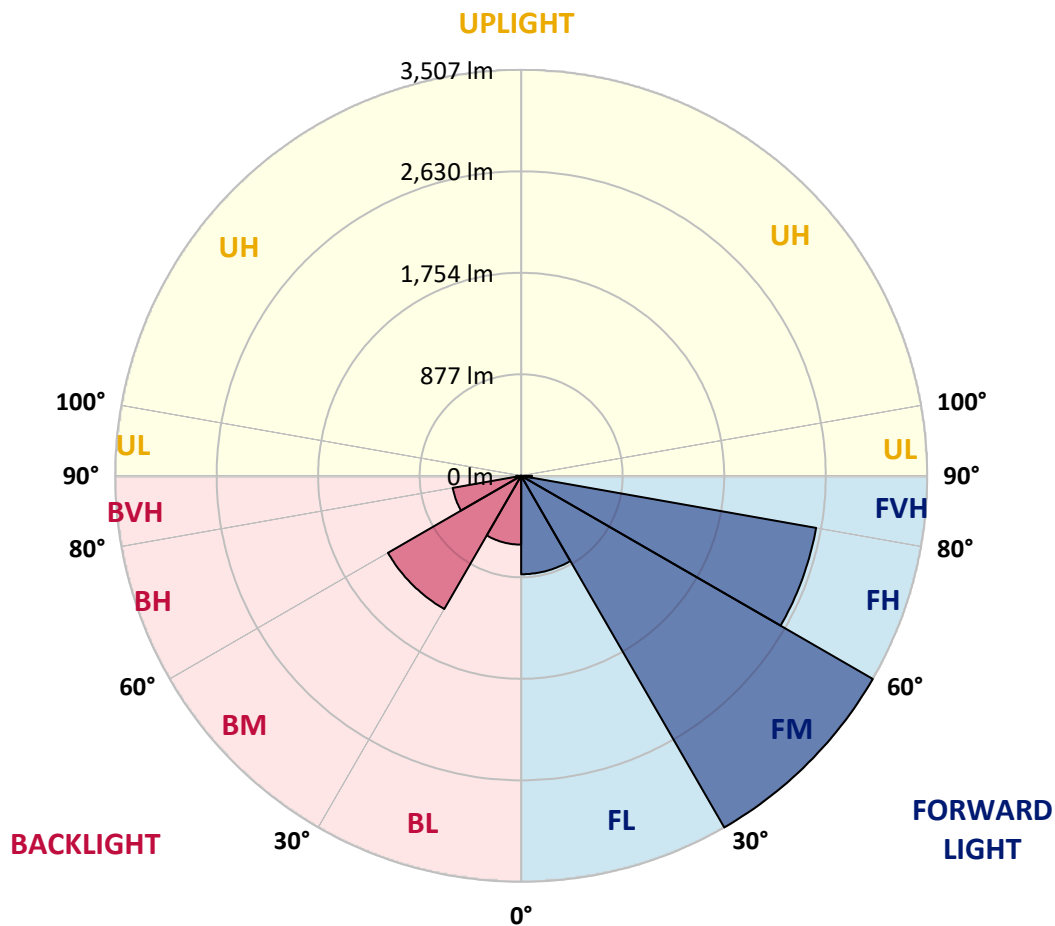
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.1	8.9			
FM	(30°-60°)	3507.1	36.5			
FH	(60°-80°)	2587.2	26.9			G2/5000
FVH	(80°-90°)	93.1	1.0			G1/100
BL	(0°-30°)	594.6	6.2	B2/1000		
BM	(30°-60°)	1328.9	13.8	B2/2500		
BH	(60°-80°)	600.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	42.1	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°	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6
2.5°	1671.7	1670.3	1673.2	1663.0	1649.8	1648.4	1648.4	1639.6	1629.4	1608.9	1592.8
5°	1750.7	1747.7	1749.2	1734.6	1717.0	1708.3	1706.8	1687.8	1664.4	1632.3	1603.1
7.5°	1823.7	1820.8	1819.3	1803.3	1777.0	1762.3	1760.9	1733.1	1705.4	1655.7	1613.3
10°	1892.4	1889.5	1886.6	1864.6	1832.5	1810.6	1807.6	1772.6	1737.5	1676.1	1622.1
12.5°	1980.1	1974.2	1971.3	1945.0	1898.2	1874.9	1870.5	1823.7	1779.9	1705.4	1639.6
15°	2072.1	2067.8	2063.4	2038.5	1985.9	1955.2	1947.9	1889.5	1829.6	1743.3	1665.9
17.5°	2140.8	2136.4	2136.4	2114.5	2066.3	2031.2	2025.4	1955.2	1880.7	1778.4	1686.4
20°	2183.2	2178.8	2183.2	2170.0	2133.5	2104.3	2098.4	2021.0	1931.9	1810.6	1703.9
22.5°	2213.9	2209.5	2216.8	2211.0	2184.7	2167.1	2162.7	2086.8	1984.5	1844.2	1721.4
25°	2268.0	2268.0	2268.0	2257.7	2232.9	2227.0	2227.0	2161.3	2051.7	1888.0	1747.7
27.5°	2376.1	2370.2	2362.9	2333.7	2291.3	2289.9	2298.6	2237.3	2129.1	1945.0	1779.9
30°	2535.4	2532.5	2504.7	2443.3	2371.7	2364.4	2370.2	2319.1	2212.4	2004.9	1816.4
32.5°	2741.4	2731.2	2674.2	2582.1	2479.8	2446.2	2457.9	2403.9	2300.1	2066.3	1851.5
35°	2887.6	2890.5	2849.6	2766.3	2645.0	2555.8	2564.6	2498.8	2395.1	2135.0	1895.3
37.5°	3055.6	3065.8	3004.5	2941.6	2829.1	2677.1	2685.9	2596.8	2490.1	2221.2	1942.1
40°	3288.0	3267.5	3163.7	3089.2	2965.0	2804.3	2811.6	2706.4	2599.7	2303.0	1996.2
42.5°	3482.3	3445.8	3320.1	3225.1	3076.1	2938.7	2946.0	2824.7	2710.7	2393.6	2056.1
45°	3761.4	3660.6	3479.4	3432.6	3190.0	3070.2	3077.5	2950.4	2827.6	2490.1	2120.4
47.5°	3923.6	3762.9	3647.4	3622.6	3315.7	3206.1	3214.9	3083.4	2953.3	2599.7	2187.6
50°	3913.4	3809.6	3776.0	3714.7	3426.8	3333.3	3342.0	3220.7	3080.4	2707.8	2251.9
52.5°	3846.2	3865.2	3847.6	3745.3	3537.8	3456.0	3466.2	3356.6	3210.5	2808.6	2311.8
55°	3949.9	3963.1	3929.5	3795.0	3660.6	3578.8	3590.4	3499.8	3339.1	2897.8	2362.9
57.5°	4074.1	4027.4	3993.8	3882.7	3787.7	3711.7	3724.9	3646.0	3450.2	2969.4	2402.4
60°	4068.3	3970.4	4004.0	3888.6	3873.9	3834.5	3846.2	3765.8	3534.9	3022.0	2418.5
62.5°	3768.7	3716.1	3885.6	3846.2	3944.1	3944.1	3958.7	3838.9	3586.1	3043.9	2409.7
65°	3248.5	3251.4	3549.5	3713.2	4027.4	4094.6	4106.3	3884.2	3556.8	2979.6	2327.9
67.5°	2588.0	2607.0	3035.1	3375.6	3944.1	4196.9	4198.4	3925.1	3431.2	2798.4	2137.9
70°	1893.9	1908.5	2414.1	2827.6	3551.0	3970.4	3947.0	3809.6	3157.9	2482.8	1841.3
72.5°	1280.1	1293.3	1813.5	2171.5	2913.9	3381.5	3330.3	3366.9	2691.7	2040.0	1480.3
75°	860.7	876.8	1290.3	1553.4	2143.7	2567.5	2453.5	2550.0	2082.4	1544.6	1079.9
77.5°	542.1	552.4	819.8	1018.5	1464.2	1747.7	1633.7	1635.2	1199.7	831.5	580.1
80°	344.9	347.8	496.8	587.4	847.6	1050.7	929.4	755.5	540.7	441.3	346.3
82.5°	200.2	195.8	296.6	331.7	403.3	398.9	330.3	312.7	236.7	220.7	176.8
85°	80.4	74.5	130.1	121.3	122.8	130.1	96.4	96.4	77.4	59.9	43.8
87.5°	16.1	16.1	17.5	16.1	16.1	17.5	13.2	13.2	11.7	11.7	11.7
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°	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6
2.5°	1589.9	1587.0	1579.7	1560.7	1550.5	1544.6	1535.8	1532.9	1531.5	1532.9	1537.3
5°	1594.3	1584.1	1563.6	1532.9	1512.5	1499.3	1484.7	1478.8	1474.5	1474.5	1478.8
7.5°	1597.2	1581.1	1546.1	1500.8	1471.5	1451.1	1433.5	1426.2	1424.8	1429.2	1430.6
10°	1598.7	1575.3	1525.6	1468.6	1430.6	1404.3	1386.8	1382.4	1386.8	1395.6	1397.0
12.5°	1608.9	1576.8	1513.9	1446.7	1401.4	1375.1	1361.9	1361.9	1373.6	1389.7	1391.2
15°	1626.4	1587.0	1508.1	1429.2	1382.4	1359.0	1354.6	1361.9	1379.5	1404.3	1407.2
17.5°	1639.6	1592.8	1494.9	1405.8	1357.6	1342.9	1350.3	1367.8	1392.6	1426.2	1429.2
20°	1648.4	1592.8	1475.9	1378.0	1332.7	1329.8	1350.3	1378.0	1404.3	1443.8	1448.2
22.5°	1657.1	1589.9	1454.0	1344.4	1305.0	1313.7	1351.7	1386.8	1413.1	1455.5	1462.8
25°	1673.2	1594.3	1432.1	1310.8	1275.7	1300.6	1350.3	1392.6	1420.4	1464.2	1475.9
27.5°	1695.1	1604.5	1416.0	1280.1	1246.5	1280.1	1340.0	1391.2	1420.4	1462.8	1475.9
30°	1718.5	1616.2	1397.0	1246.5	1212.9	1250.9	1318.1	1375.1	1408.7	1448.2	1464.2
32.5°	1743.3	1629.4	1380.9	1210.0	1172.0	1211.4	1286.0	1350.3	1386.8	1423.3	1440.9
35°	1777.0	1652.7	1372.2	1180.7	1135.4	1170.5	1245.0	1318.1	1357.6	1391.2	1411.6
37.5°	1817.9	1682.0	1367.8	1151.5	1096.0	1125.2	1201.2	1278.6	1321.0	1348.8	1367.8
40°	1864.6	1718.5	1366.3	1123.7	1056.5	1078.4	1155.9	1233.3	1274.3	1296.2	1312.3
42.5°	1917.2	1759.4	1363.4	1096.0	1017.1	1034.6	1112.1	1188.0	1223.1	1242.1	1256.7
45°	1972.8	1800.3	1357.6	1062.4	974.7	995.2	1066.8	1134.0	1170.5	1186.6	1202.7
47.5°	2028.3	1841.3	1345.9	1024.4	936.7	955.7	1018.5	1077.0	1106.2	1120.8	1136.9
50°	2082.4	1877.8	1318.1	980.5	897.2	914.8	963.0	1002.5	1024.4	1036.1	1052.1
52.5°	2130.6	1902.6	1278.6	929.4	857.8	866.6	898.7	932.3	949.9	951.3	965.9
55°	2171.5	1915.8	1221.7	876.8	815.4	816.9	834.4	860.7	868.0	862.2	872.4
57.5°	2194.9	1908.5	1158.8	822.7	771.6	765.7	778.9	792.0	793.5	778.9	789.1
60°	2200.7	1874.9	1077.0	768.7	727.7	711.7	716.0	713.1	710.2	704.4	713.1
62.5°	2171.5	1803.3	986.4	716.0	681.0	656.1	654.7	653.2	657.6	659.1	660.5
65°	2064.8	1668.8	878.2	662.0	631.3	597.7	596.2	613.8	619.6	610.8	613.8
67.5°	1858.8	1462.8	759.9	599.1	568.5	539.2	550.9	561.1	571.4	568.5	571.4
70°	1566.5	1201.2	651.7	529.0	499.8	483.7	496.8	505.6	507.1	504.2	507.1
72.5°	1231.9	938.2	550.9	457.4	431.1	423.8	439.9	447.2	460.3	466.2	467.6
75°	889.9	692.7	451.5	379.9	358.0	358.0	372.6	385.8	397.5	390.2	385.8
77.5°	496.8	413.6	324.4	261.6	266.0	286.4	292.3	306.9	318.6	317.1	314.2
80°	301.0	258.7	219.2	169.5	168.1	184.1	222.1	247.0	252.8	239.7	238.2
82.5°	156.4	135.9	116.9	95.0	105.2	122.8	128.6	154.9	171.0	165.1	172.4
85°	39.5	38.0	42.4	43.8	54.1	59.9	65.8	77.4	51.1	24.8	24.8
87.5°	11.7	11.7	14.6	14.6	19.0	23.4	21.9	21.9	11.7	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)