

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: P836574

Luminaire Tested: **ARCH3-40-750-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836574
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: ARCH3-40-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7443 lumens
Efficiency: N/A
Efficacy: 170.7 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): 43.6
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

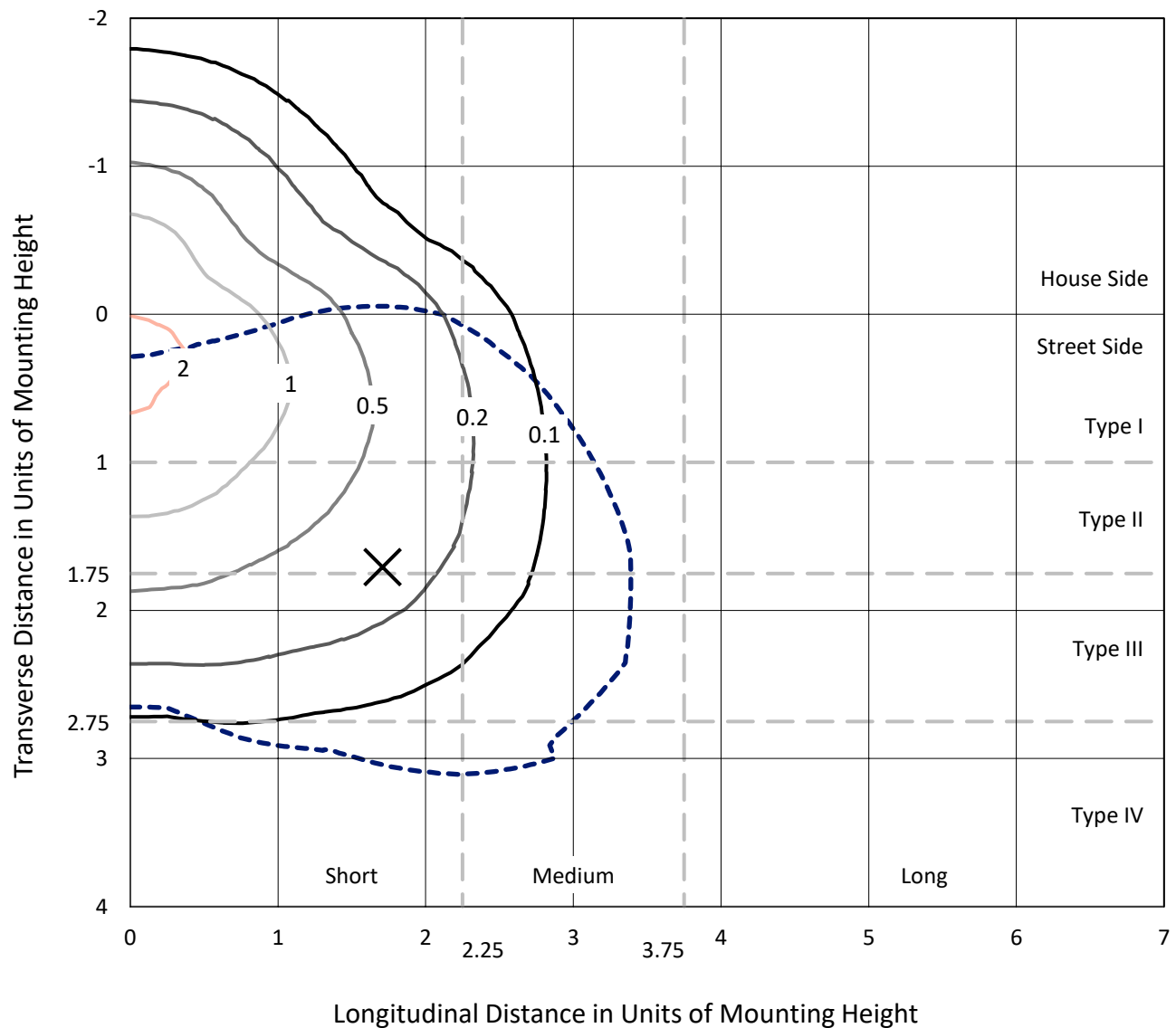


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

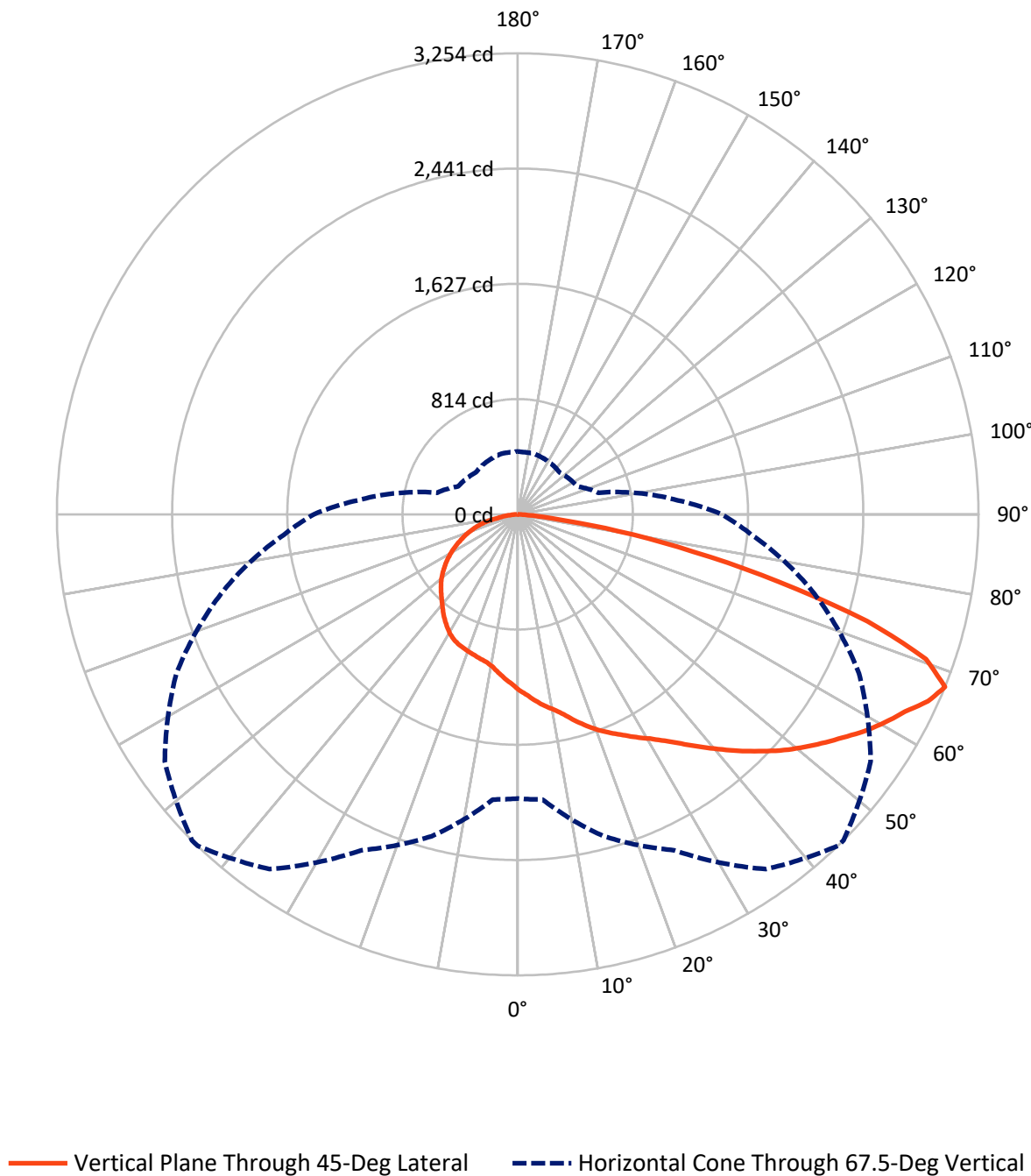


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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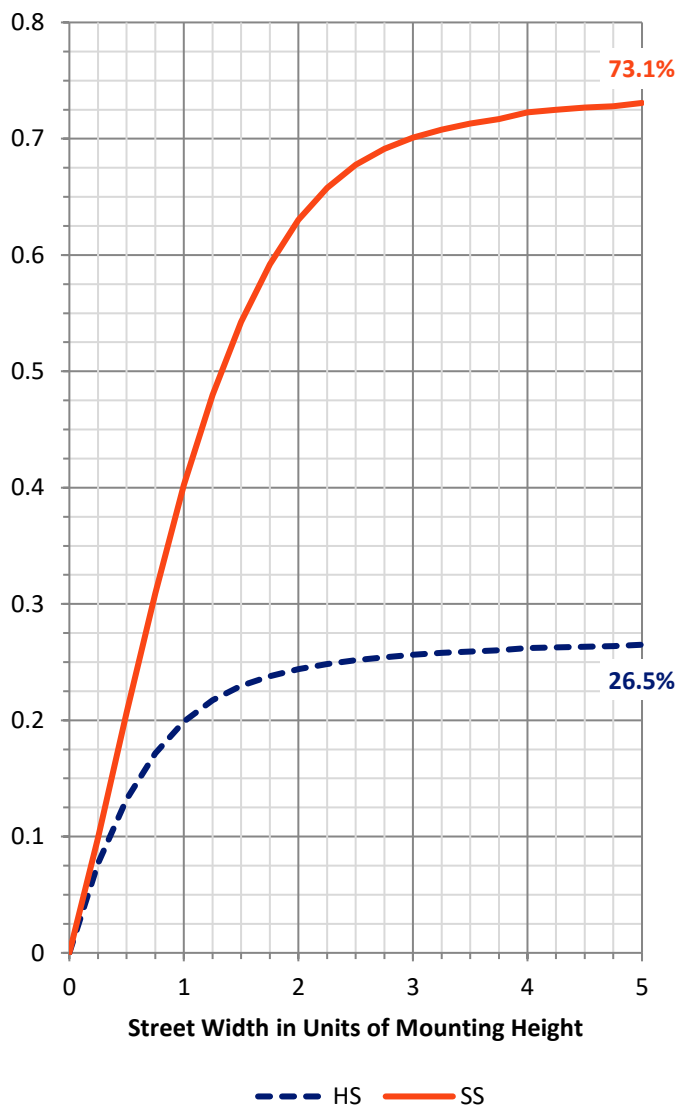
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1988.4	0.0	1988.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	5454.6	0.0	5454.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	7443.0	0.0	7443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	1.6
10°-20°	367.1	4.9
20°-30°	633.7	8.5
30°-40°	934.6	12.6
40°-50°	1266.1	17.0
50°-60°	1547.5	20.8
60°-70°	1596.1	21.4
70°-80°	874.2	11.7
80°-90°	104.8	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°	7443.0	100.0
0°-180°	7443.0	100.0

Coefficient of Utilization



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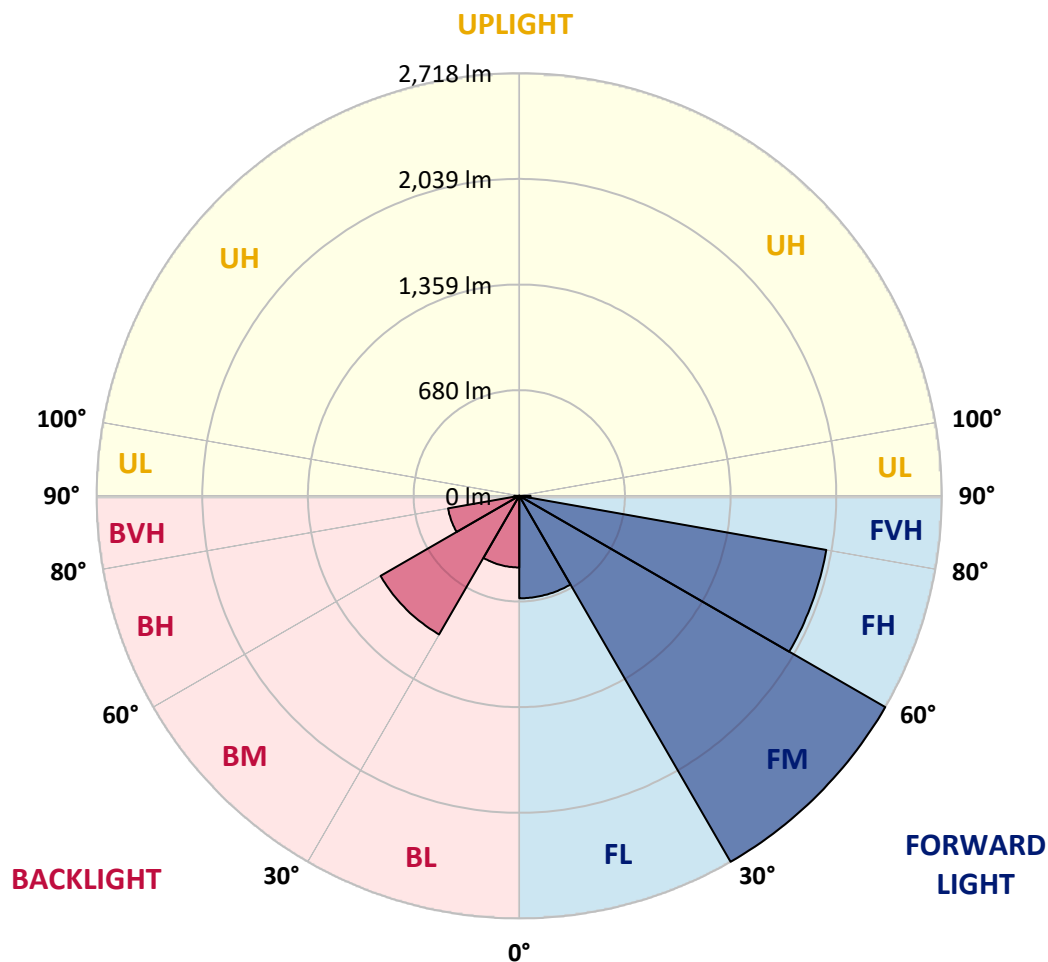
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.9	8.9			
FM	(30°-60°)	2718.3	36.5			
FH	(60°-80°)	2005.3	26.9			G2/5000
FVH	(80°-90°)	72.2	1.0			G1/100
BL	(0°-30°)	460.8	6.2	B1/500		
BM	(30°-60°)	1030.0	13.8	B2/2500		
BH	(60°-80°)	465.0	6.2	B1/500		G1/500
BVH	(80°-90°)	32.6	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°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1295.7	1294.6	1296.8	1288.9	1278.7	1277.6	1277.6	1270.8	1262.9	1247.0	1234.6
5°	1356.9	1354.6	1355.7	1344.4	1330.8	1324.0	1322.9	1308.2	1290.1	1265.1	1242.5
7.5°	1413.5	1411.2	1410.1	1397.7	1377.3	1365.9	1364.8	1343.3	1321.8	1283.3	1250.4
10°	1466.7	1464.5	1462.2	1445.2	1420.3	1403.3	1401.1	1373.9	1346.7	1299.1	1257.2
12.5°	1534.7	1530.2	1527.9	1507.5	1471.3	1453.2	1449.8	1413.5	1379.5	1321.8	1270.8
15°	1606.1	1602.7	1599.3	1580.0	1539.2	1515.4	1509.8	1464.5	1418.0	1351.2	1291.2
17.5°	1659.3	1655.9	1655.9	1638.9	1601.5	1574.3	1569.8	1515.4	1457.7	1378.4	1307.0
20°	1692.1	1688.7	1692.1	1681.9	1653.6	1631.0	1626.4	1566.4	1497.3	1403.3	1320.6
22.5°	1715.9	1712.5	1718.2	1713.7	1693.3	1679.7	1676.3	1617.4	1538.1	1429.4	1334.2
25°	1757.8	1757.8	1757.8	1749.9	1730.6	1726.1	1726.1	1675.1	1590.2	1463.3	1354.6
27.5°	1841.6	1837.1	1831.4	1808.8	1775.9	1774.8	1781.6	1734.0	1650.2	1507.5	1379.5
30°	1965.1	1962.8	1941.3	1893.7	1838.2	1832.6	1837.1	1797.5	1714.8	1554.0	1407.8
32.5°	2124.8	2116.9	2072.7	2001.3	1922.1	1896.0	1905.1	1863.2	1782.7	1601.5	1435.0
35°	2238.1	2240.3	2208.6	2144.0	2050.0	1981.0	1987.7	1936.8	1856.4	1654.8	1469.0
37.5°	2368.3	2376.2	2328.7	2280.0	2192.8	2075.0	2081.8	2012.7	1930.0	1721.6	1505.3
40°	2548.4	2532.5	2452.1	2394.4	2298.1	2173.5	2179.2	2097.6	2014.9	1785.0	1547.2
42.5°	2699.0	2670.7	2573.3	2499.7	2384.2	2277.7	2283.4	2189.4	2101.0	1855.2	1593.6
45°	2915.4	2837.2	2696.8	2660.5	2472.5	2379.6	2385.3	2286.8	2191.6	1930.0	1643.4
47.5°	3041.1	2916.5	2827.0	2807.8	2569.9	2485.0	2491.8	2389.8	2289.0	2014.9	1695.5
50°	3033.2	2952.7	2926.7	2879.1	2656.0	2583.5	2590.3	2496.3	2387.6	2098.7	1745.4
52.5°	2981.1	2995.8	2982.2	2902.9	2742.1	2678.6	2686.6	2601.6	2488.4	2176.9	1791.8
55°	3061.5	3071.7	3045.6	2941.4	2837.2	2773.8	2782.8	2712.6	2588.0	2246.0	1831.4
57.5°	3157.7	3121.5	3095.4	3009.4	2935.8	2876.9	2887.0	2825.9	2674.1	2301.5	1862.0
60°	3153.2	3077.3	3103.4	3013.9	3002.6	2972.0	2981.1	2918.8	2739.8	2342.3	1874.5
62.5°	2921.0	2880.3	3011.6	2981.1	3056.9	3056.9	3068.3	2975.4	2779.4	2359.2	1867.7
65°	2517.8	2520.1	2751.1	2878.0	3121.5	3173.6	3182.7	3010.5	2756.8	2309.4	1804.3
67.5°	2005.9	2020.6	2352.5	2616.4	3056.9	3252.9	3254.0	3042.2	2659.4	2169.0	1657.0
70°	1467.9	1479.2	1871.1	2191.6	2752.3	3077.3	3059.2	2952.7	2447.6	1924.3	1427.1
72.5°	992.2	1002.4	1405.6	1683.1	2258.4	2620.9	2581.2	2609.6	2086.3	1581.1	1147.3
75°	667.1	679.6	1000.1	1204.0	1661.6	1990.0	1901.7	1976.4	1614.0	1197.2	837.0
77.5°	420.2	428.1	635.4	789.4	1134.9	1354.6	1266.3	1267.4	929.9	644.5	449.7
80°	267.3	269.6	385.1	455.3	656.9	814.4	720.3	585.6	419.1	342.1	268.4
82.5°	155.2	151.8	229.9	257.1	312.6	309.2	256.0	242.4	183.5	171.0	137.0
85°	62.3	57.8	100.8	94.0	95.1	100.8	74.8	74.8	60.0	46.4	34.0
87.5°	12.5	12.5	13.6	12.5	12.5	13.6	10.2	10.2	9.1	9.1	9.1
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°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1232.3	1230.0	1224.4	1209.6	1201.7	1197.2	1190.4	1188.1	1187.0	1188.1	1191.5
5°	1235.7	1227.8	1211.9	1188.1	1172.3	1162.1	1150.7	1146.2	1142.8	1142.8	1146.2
7.5°	1238.0	1225.5	1198.3	1163.2	1140.5	1124.7	1111.1	1105.4	1104.3	1107.7	1108.8
10°	1239.1	1221.0	1182.5	1138.3	1108.8	1088.4	1074.9	1071.5	1074.9	1081.7	1082.8
12.5°	1247.0	1222.1	1173.4	1121.3	1086.2	1065.8	1055.6	1055.6	1064.7	1077.1	1078.3
15°	1260.6	1230.0	1168.9	1107.7	1071.5	1053.3	1049.9	1055.6	1069.2	1088.4	1090.7
17.5°	1270.8	1234.6	1158.7	1089.6	1052.2	1040.9	1046.5	1060.1	1079.4	1105.4	1107.7
20°	1277.6	1234.6	1143.9	1068.1	1032.9	1030.7	1046.5	1068.1	1088.4	1119.0	1122.4
22.5°	1284.4	1232.3	1127.0	1042.0	1011.4	1018.2	1047.7	1074.9	1095.2	1128.1	1133.8
25°	1296.8	1235.7	1110.0	1016.0	988.8	1008.0	1046.5	1079.4	1100.9	1134.9	1143.9
27.5°	1313.8	1243.6	1097.5	992.2	966.1	992.2	1038.6	1078.3	1100.9	1133.8	1143.9
30°	1332.0	1252.7	1082.8	966.1	940.1	969.5	1021.6	1065.8	1091.8	1122.4	1134.9
32.5°	1351.2	1262.9	1070.3	937.8	908.4	938.9	996.7	1046.5	1074.9	1103.2	1116.8
35°	1377.3	1281.0	1063.5	915.2	880.0	907.2	965.0	1021.6	1052.2	1078.3	1094.1
37.5°	1409.0	1303.6	1060.1	892.5	849.5	872.1	931.0	991.0	1023.9	1045.4	1060.1
40°	1445.2	1332.0	1059.0	871.0	818.9	835.9	895.9	955.9	987.6	1004.6	1017.1
42.5°	1486.0	1363.7	1056.7	849.5	788.3	801.9	861.9	920.8	948.0	962.7	974.1
45°	1529.0	1395.4	1052.2	823.4	755.5	771.3	826.8	878.9	907.2	919.7	932.1
47.5°	1572.1	1427.1	1043.1	794.0	726.0	740.7	789.4	834.7	857.4	868.7	881.2
50°	1614.0	1455.4	1021.6	760.0	695.4	709.0	746.4	777.0	794.0	803.0	815.5
52.5°	1651.4	1474.7	991.0	720.3	664.8	671.6	696.6	722.6	736.2	737.3	748.7
55°	1683.1	1484.9	946.9	679.6	632.0	633.1	646.7	667.1	672.8	668.2	676.2
57.5°	1701.2	1479.2	898.2	637.7	598.0	593.5	603.7	613.9	615.0	603.7	611.6
60°	1705.7	1453.2	834.7	595.8	564.0	551.6	555.0	552.7	550.5	545.9	552.7
62.5°	1683.1	1397.7	764.5	555.0	527.8	508.5	507.4	506.3	509.7	510.8	511.9
65°	1600.4	1293.5	680.7	513.1	489.3	463.2	462.1	475.7	480.2	473.4	475.7
67.5°	1440.7	1133.8	589.0	464.4	440.6	417.9	427.0	434.9	442.9	440.6	442.9
70°	1214.2	931.0	505.1	410.0	387.4	374.9	385.1	391.9	393.0	390.8	393.0
72.5°	954.8	727.1	427.0	354.5	334.1	328.5	340.9	346.6	356.8	361.3	362.4
75°	689.8	536.9	350.0	294.5	277.5	277.5	288.8	299.0	308.1	302.4	299.0
77.5°	385.1	320.5	251.4	202.7	206.1	222.0	226.5	237.9	246.9	245.8	243.5
80°	233.3	200.5	169.9	131.4	130.3	142.7	172.2	191.4	195.9	185.7	184.6
82.5°	121.2	105.3	90.6	73.6	81.5	95.1	99.7	120.1	132.5	128.0	133.6
85°	30.6	29.4	32.8	34.0	41.9	46.4	51.0	60.0	39.6	19.3	19.3
87.5°	9.1	9.1	11.3	11.3	14.7	18.1	17.0	17.0	9.1	1.1	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)