

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: P842394

Luminaire Tested: **ARCH4-40-730-U-T4W**

Issue Date: 5/27/2024

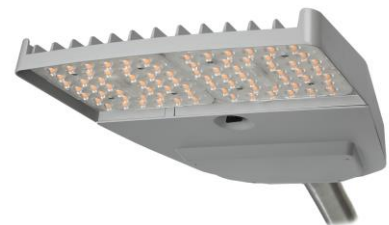
Test Information

Test Method: LM-79-08
Report Number: P842394
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: ARCH4-40-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7460 lumens
Efficiency: N/A
Efficacy: 170.3 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): 43.8
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

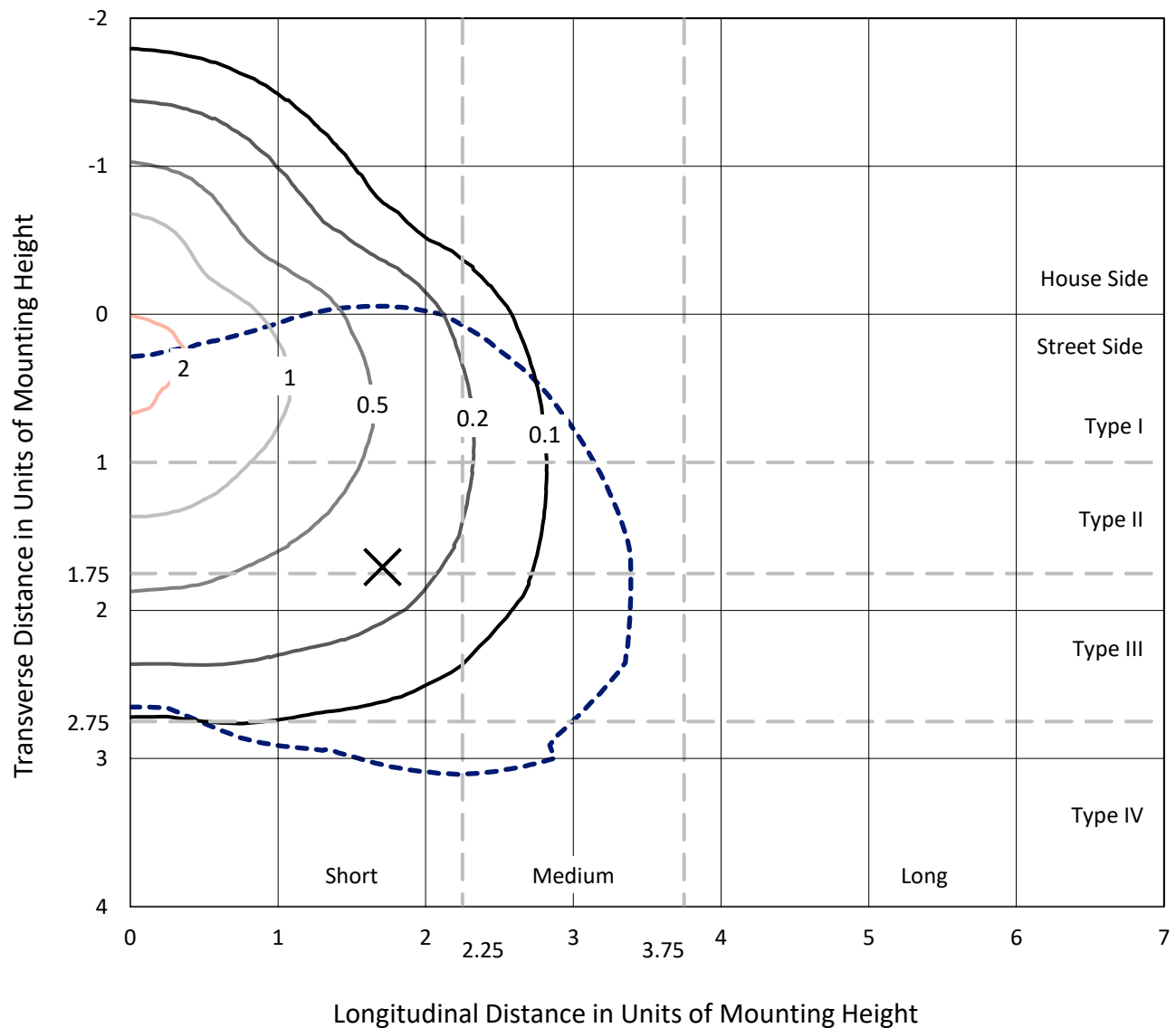


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Iso-Footcandle Lines of Horizontal Illumination

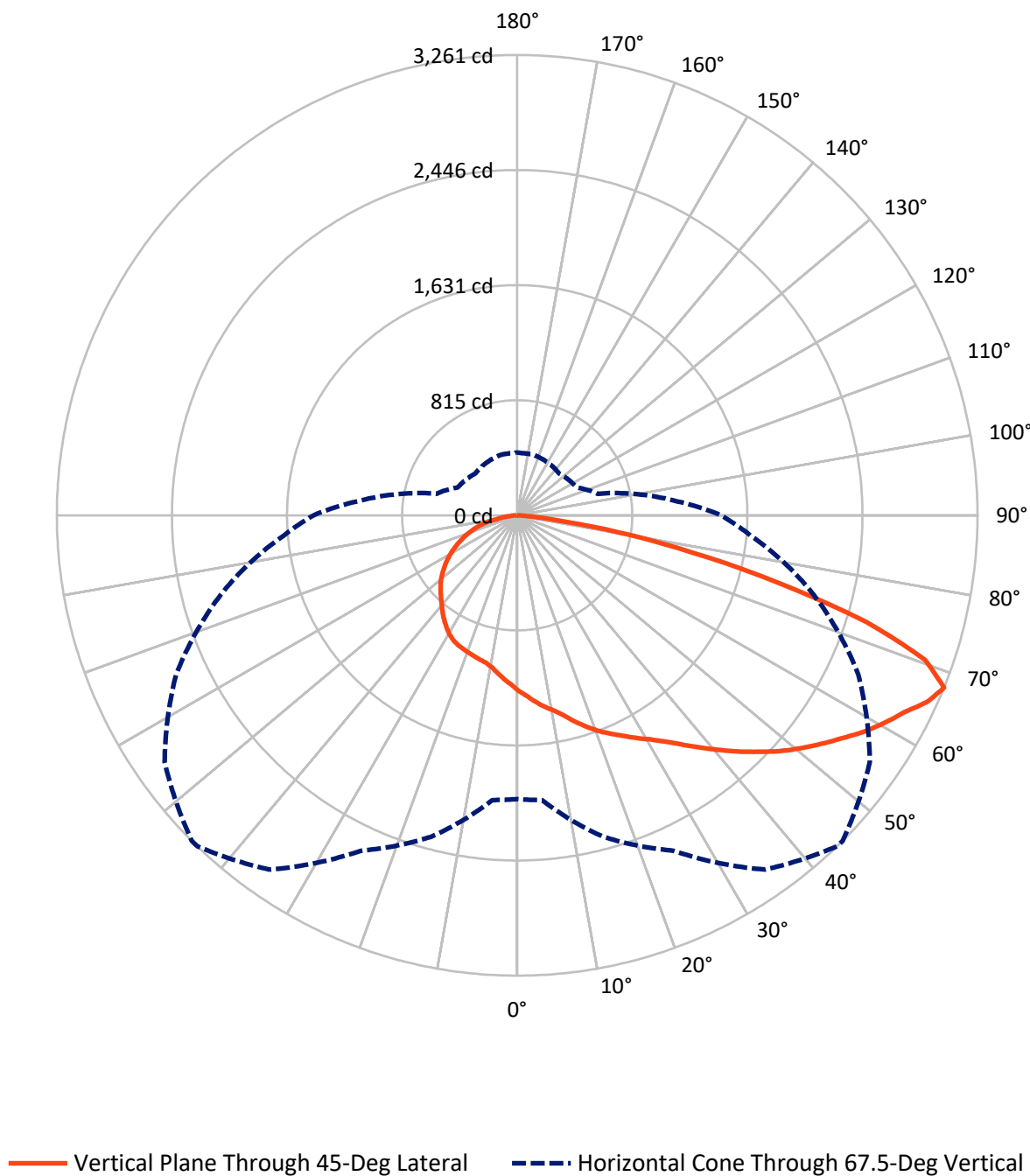
× Max cd
- - - 1/2 Max cd



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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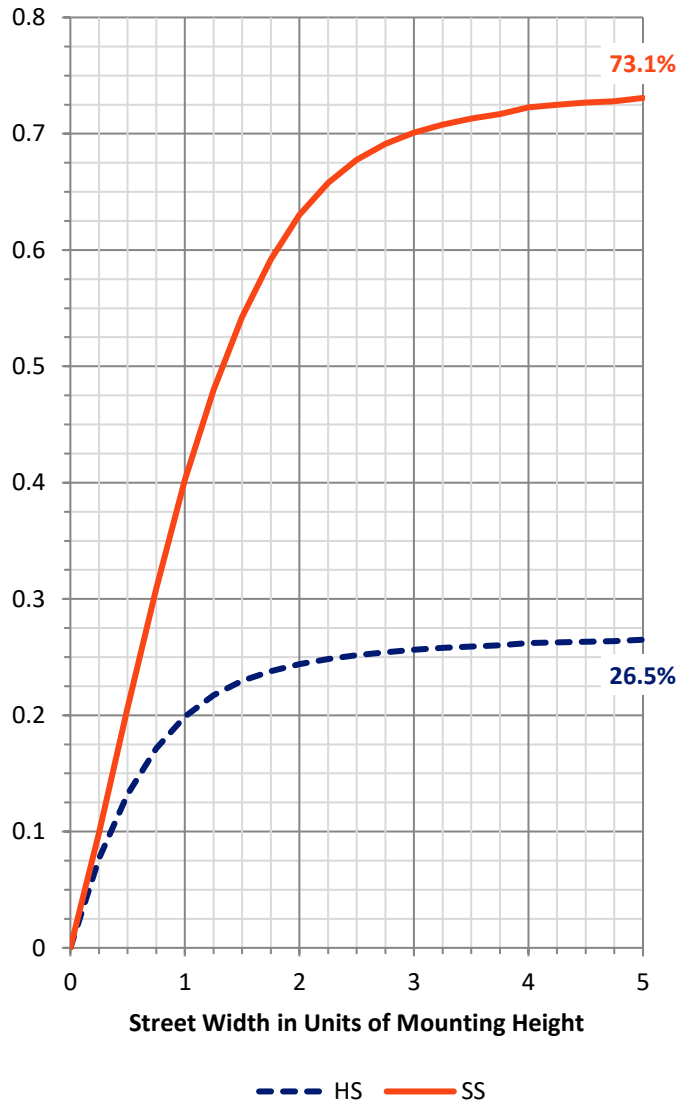
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1992.9	0.0	1992.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	5467.1	0.0	5467.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	7460.0	0.0	7460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.6
10°-20°	368.0	4.9
20°-30°	635.2	8.5
30°-40°	936.7	12.6
40°-50°	1269.0	17.0
50°-60°	1551.1	20.8
60°-70°	1599.7	21.4
70°-80°	876.2	11.7
80°-90°	105.0	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°	7460.0	100.0
0°-180°	7460.0	100.0

Coefficient of Utilization



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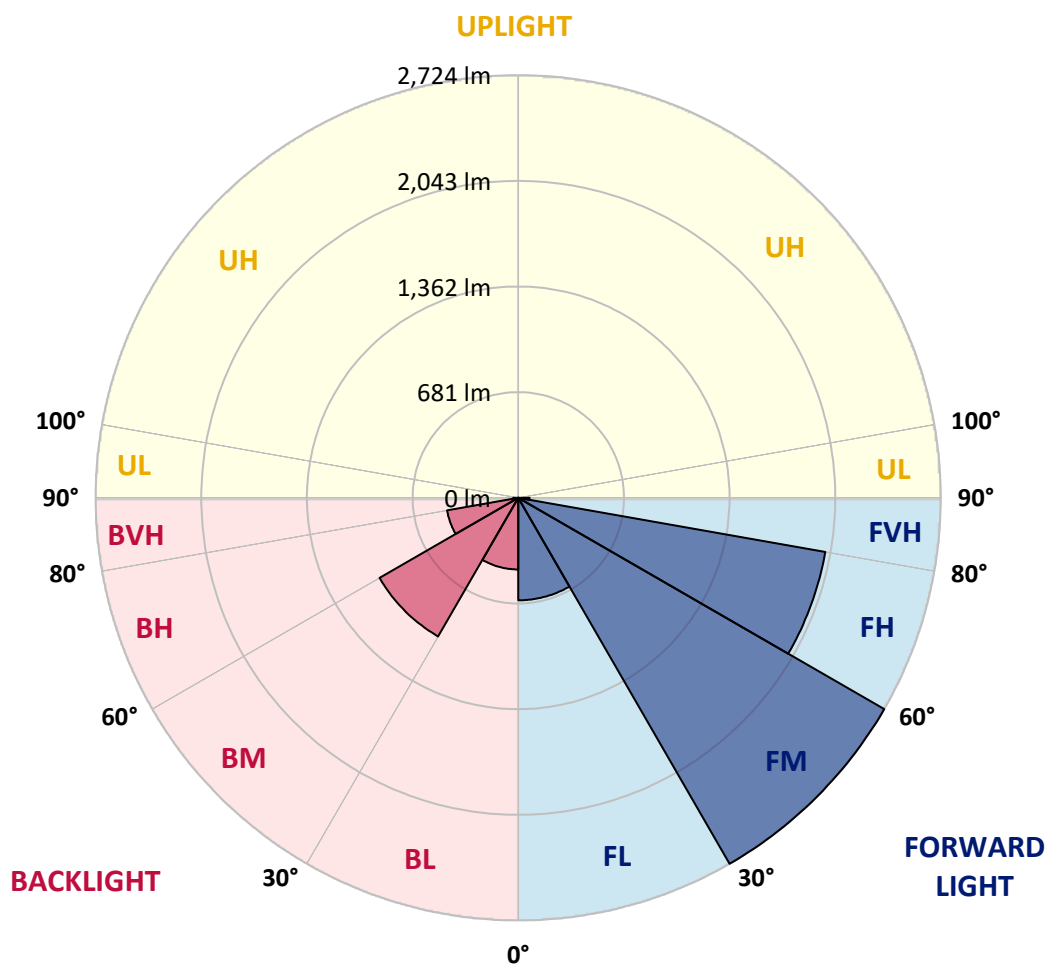
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.4	8.9			
FM	(30°-60°)	2724.5	36.5			
FH	(60°-80°)	2009.8	26.9			G2/5000
FVH	(80°-90°)	72.3	1.0			G1/100
BL	(0°-30°)	461.9	6.2	B1/500		
BM	(30°-60°)	1032.3	13.8	B2/2500		
BH	(60°-80°)	466.1	6.2	B1/500		G1/500
BVH	(80°-90°)	32.7	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°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1298.7	1297.5	1299.8	1291.9	1281.6	1280.5	1280.5	1273.7	1265.8	1249.9	1237.4
5°	1360.0	1357.7	1358.8	1347.5	1333.9	1327.1	1325.9	1311.2	1293.0	1268.0	1245.3
7.5°	1416.7	1414.5	1413.3	1400.8	1380.4	1369.1	1367.9	1346.4	1324.8	1286.2	1253.3
10°	1470.1	1467.8	1465.6	1448.5	1423.5	1406.5	1404.3	1377.0	1349.8	1302.1	1260.1
12.5°	1538.2	1533.7	1531.4	1511.0	1474.6	1456.5	1453.1	1416.7	1382.7	1324.8	1273.7
15°	1609.7	1606.3	1602.9	1583.6	1542.7	1518.9	1513.2	1467.8	1421.3	1354.3	1294.1
17.5°	1663.1	1659.7	1659.7	1642.6	1605.2	1577.9	1573.4	1518.9	1461.0	1381.5	1310.0
20°	1696.0	1692.6	1696.0	1685.8	1657.4	1634.7	1630.2	1570.0	1500.7	1406.5	1323.7
22.5°	1719.8	1716.4	1722.1	1717.6	1697.1	1683.5	1680.1	1621.1	1541.6	1432.6	1337.3
25°	1761.8	1761.8	1761.8	1753.9	1734.6	1730.1	1730.1	1679.0	1593.8	1466.7	1357.7
27.5°	1845.8	1841.3	1835.6	1812.9	1780.0	1778.9	1785.7	1738.0	1654.0	1511.0	1382.7
30°	1969.6	1967.3	1945.7	1898.1	1842.4	1836.8	1841.3	1801.6	1718.7	1557.5	1411.1
32.5°	2129.6	2121.7	2077.4	2005.9	1926.4	1900.3	1909.4	1867.4	1786.8	1605.2	1438.3
35°	2243.2	2245.4	2213.7	2148.9	2054.7	1985.5	1992.3	1941.2	1860.6	1658.5	1472.4
37.5°	2373.7	2381.7	2334.0	2285.2	2197.8	2079.7	2086.5	2017.3	1934.4	1725.5	1508.7
40°	2554.2	2538.3	2457.7	2399.8	2303.3	2178.5	2184.1	2102.4	2019.5	1789.1	1550.7
42.5°	2705.2	2676.8	2579.2	2505.4	2389.6	2282.9	2288.6	2194.4	2105.8	1859.5	1597.2
45°	2922.0	2843.7	2702.9	2666.6	2478.2	2385.1	2390.7	2292.0	2196.6	1934.4	1647.2
47.5°	3048.0	2923.2	2833.5	2814.2	2575.8	2490.6	2497.5	2395.3	2294.3	2019.5	1699.4
50°	3040.1	2959.5	2933.4	2885.7	2662.1	2589.4	2596.2	2502.0	2393.0	2103.5	1749.4
52.5°	2987.9	3002.6	2989.0	2909.5	2748.3	2684.8	2692.7	2607.6	2494.0	2181.9	1795.9
55°	3068.5	3078.7	3052.6	2948.1	2843.7	2780.1	2789.2	2718.8	2593.9	2251.1	1835.6
57.5°	3165.0	3128.6	3102.5	3016.2	2942.5	2883.4	2893.6	2832.3	2680.2	2306.7	1866.3
60°	3160.4	3084.4	3110.5	3020.8	3009.4	2978.8	2987.9	2925.4	2746.1	2347.6	1878.8
62.5°	2927.7	2886.8	3018.5	2987.9	3063.9	3063.9	3075.3	2982.2	2785.8	2364.6	1872.0
65°	2523.6	2525.8	2757.4	2884.6	3128.6	3180.8	3189.9	3017.4	2763.1	2314.7	1808.4
67.5°	2010.5	2025.2	2357.8	2622.3	3063.9	3260.3	3261.4	3049.2	2665.5	2173.9	1660.8
70°	1471.2	1482.6	1875.4	2196.6	2758.6	3084.4	3066.2	2959.5	2453.2	1928.7	1430.4
72.5°	994.4	1004.7	1408.8	1686.9	2263.6	2626.9	2587.1	2615.5	2091.1	1584.7	1150.0
75°	668.6	681.1	1002.4	1206.7	1665.3	1994.6	1906.0	1980.9	1617.7	1199.9	838.9
77.5°	421.2	429.1	636.9	791.2	1137.5	1357.7	1269.2	1270.3	932.0	645.9	450.7
80°	267.9	270.2	386.0	456.4	658.4	816.2	722.0	586.9	420.0	342.8	269.0
82.5°	155.5	152.1	230.4	257.7	313.3	309.9	256.6	242.9	183.9	171.4	137.4
85°	62.4	57.9	101.0	94.2	95.4	101.0	74.9	74.9	60.2	46.5	34.1
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°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1235.1	1232.8	1227.2	1212.4	1204.5	1199.9	1193.1	1190.8	1189.7	1190.8	1194.2
5°	1238.5	1230.6	1214.7	1190.8	1174.9	1164.7	1153.4	1148.8	1145.4	1145.4	1148.8
7.5°	1240.8	1228.3	1201.0	1165.9	1143.2	1127.3	1113.6	1108.0	1106.8	1110.2	1111.4
10°	1241.9	1223.8	1185.2	1140.9	1111.4	1090.9	1077.3	1073.9	1077.3	1084.1	1085.3
12.5°	1249.9	1224.9	1176.1	1123.9	1088.7	1068.2	1058.0	1058.0	1067.1	1079.6	1080.7
15°	1263.5	1232.8	1171.5	1110.2	1073.9	1055.7	1052.3	1058.0	1071.6	1090.9	1093.2
17.5°	1273.7	1237.4	1161.3	1092.1	1054.6	1043.3	1048.9	1062.6	1081.9	1108.0	1110.2
20°	1280.5	1237.4	1146.6	1070.5	1035.3	1033.0	1048.9	1070.5	1090.9	1121.6	1125.0
22.5°	1287.3	1235.1	1129.5	1044.4	1013.7	1020.6	1050.1	1077.3	1097.7	1130.7	1136.3
25°	1299.8	1238.5	1112.5	1018.3	991.0	1010.3	1048.9	1081.9	1103.4	1137.5	1146.6
27.5°	1316.8	1246.5	1100.0	994.4	968.3	994.4	1041.0	1080.7	1103.4	1136.3	1146.6
30°	1335.0	1255.5	1085.3	968.3	942.2	971.7	1024.0	1068.2	1094.3	1125.0	1137.5
32.5°	1354.3	1265.8	1072.8	940.0	910.4	941.1	999.0	1048.9	1077.3	1105.7	1119.3
35°	1380.4	1283.9	1066.0	917.2	882.1	909.3	967.2	1024.0	1054.6	1080.7	1096.6
37.5°	1412.2	1306.6	1062.6	894.5	851.4	874.1	933.1	993.3	1026.2	1047.8	1062.6
40°	1448.5	1335.0	1061.4	873.0	820.8	837.8	897.9	958.1	989.9	1006.9	1019.4
42.5°	1489.4	1366.8	1059.1	851.4	790.1	803.7	863.9	922.9	950.2	964.9	976.3
45°	1532.5	1398.6	1054.6	825.3	757.2	773.1	828.7	880.9	909.3	921.8	934.3
47.5°	1575.7	1430.4	1045.5	795.8	727.7	742.4	791.2	836.6	859.4	870.7	883.2
50°	1617.7	1458.7	1024.0	761.7	697.0	710.6	748.1	778.8	795.8	804.9	817.3
52.5°	1655.1	1478.0	993.3	722.0	666.4	673.2	698.2	724.3	737.9	739.0	750.4
55°	1686.9	1488.3	949.0	681.1	633.4	634.6	648.2	668.6	674.3	669.8	677.7
57.5°	1705.1	1482.6	900.2	639.1	599.4	594.8	605.1	615.3	616.4	605.1	613.0
60°	1709.6	1456.5	836.6	597.1	565.3	552.8	556.3	554.0	551.7	547.2	554.0
62.5°	1686.9	1400.8	766.3	556.3	529.0	509.7	508.6	507.4	510.8	512.0	513.1
65°	1604.0	1296.4	682.3	514.2	490.4	464.3	463.2	476.8	481.3	474.5	476.8
67.5°	1444.0	1136.3	590.3	465.4	441.6	418.9	428.0	435.9	443.9	441.6	443.9
70°	1216.9	933.1	506.3	410.9	388.2	375.8	386.0	392.8	393.9	391.6	393.9
72.5°	957.0	728.8	428.0	355.3	334.9	329.2	341.7	347.4	357.6	362.1	363.3
75°	691.3	538.1	350.8	295.2	278.1	278.1	289.5	299.7	308.8	303.1	299.7
77.5°	386.0	321.3	252.0	203.2	206.6	222.5	227.0	238.4	247.5	246.3	244.1
80°	233.9	200.9	170.3	131.7	130.5	143.0	172.6	191.8	196.4	186.2	185.0
82.5°	121.5	105.6	90.8	73.8	81.7	95.4	99.9	120.3	132.8	128.3	134.0
85°	30.7	29.5	32.9	34.1	42.0	46.5	51.1	60.2	39.7	19.3	19.3
87.5°	9.1	9.1	11.4	11.4	14.8	18.2	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)