

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: P799129

Luminaire Tested: **ARCH1-60-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799129
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: ARCH1-60-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

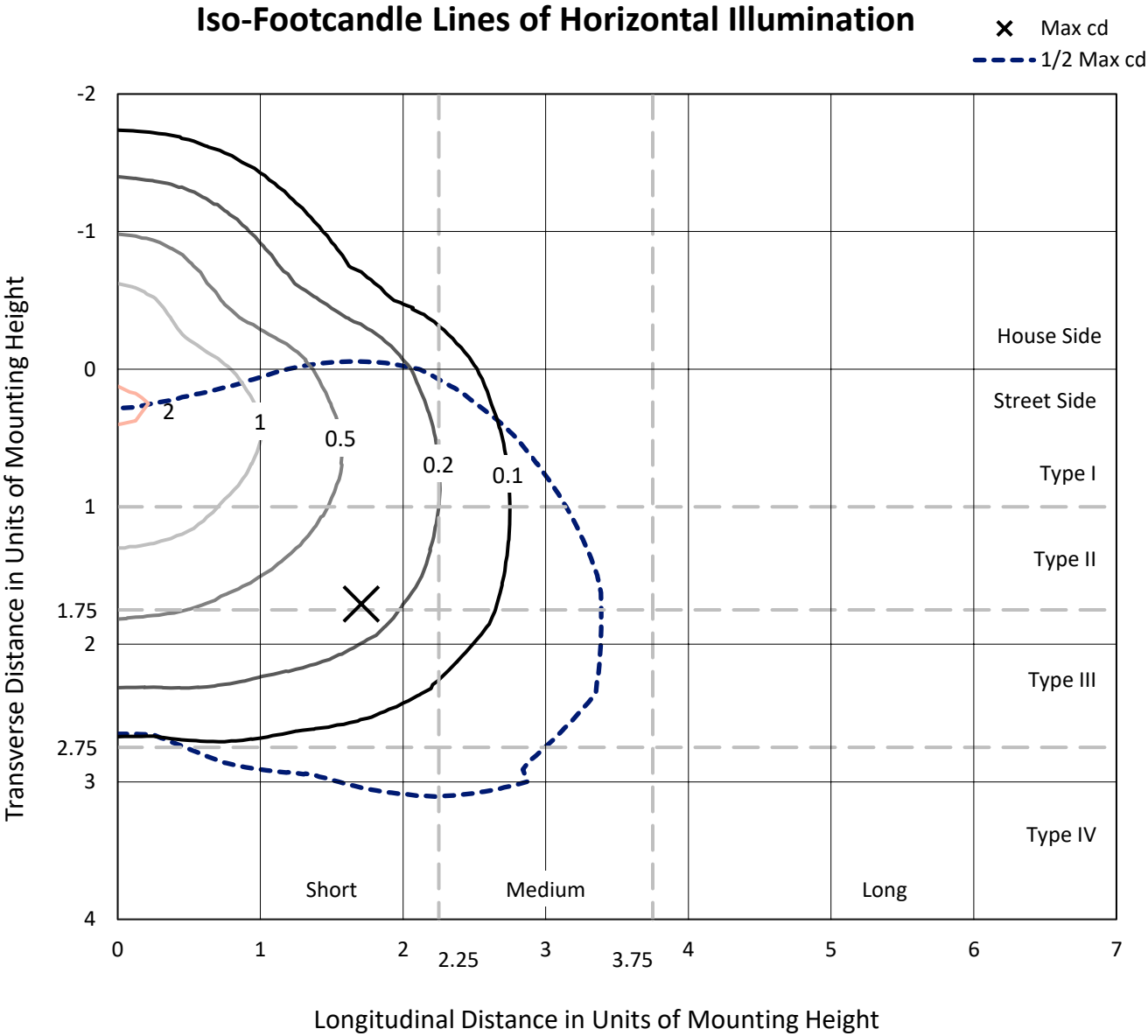
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6783 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 60
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

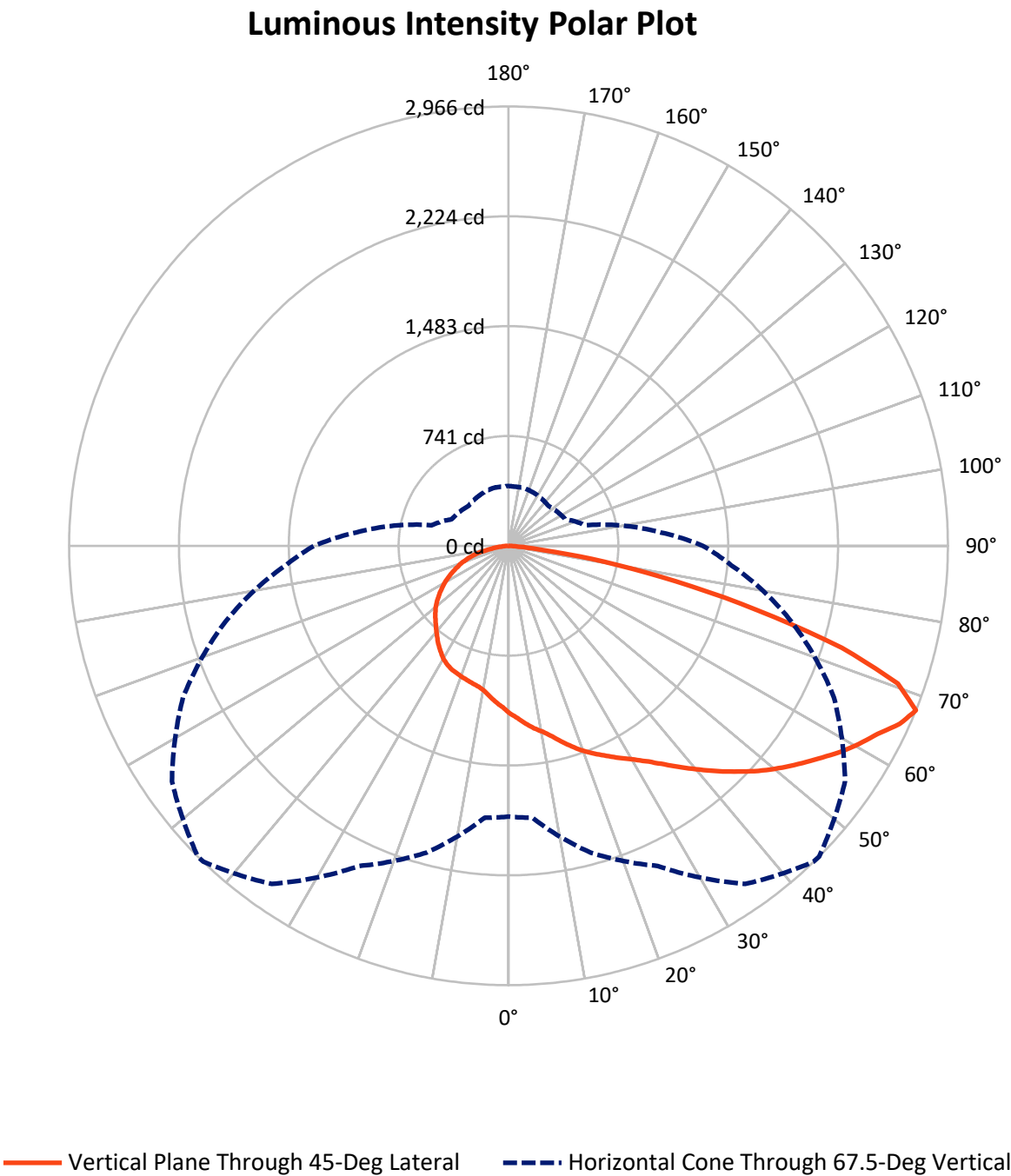


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Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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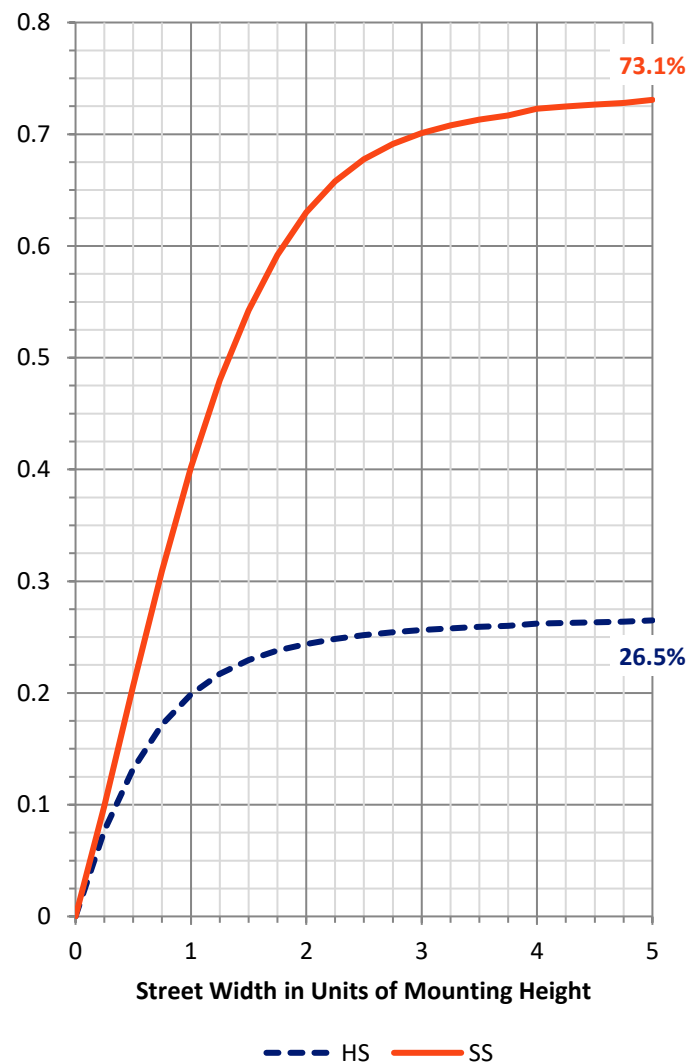
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.1	0.0	1812.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4970.9	0.0	4970.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	6783.0	0.0	6783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.6
10°-20°	334.6	4.9
20°-30°	577.5	8.5
30°-40°	851.7	12.6
40°-50°	1153.9	17.0
50°-60°	1410.3	20.8
60°-70°	1454.5	21.4
70°-80°	796.7	11.7
80°-90°	95.5	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°	6783.0	100.0
0°-180°	6783.0	100.0

Coefficient of Utilization



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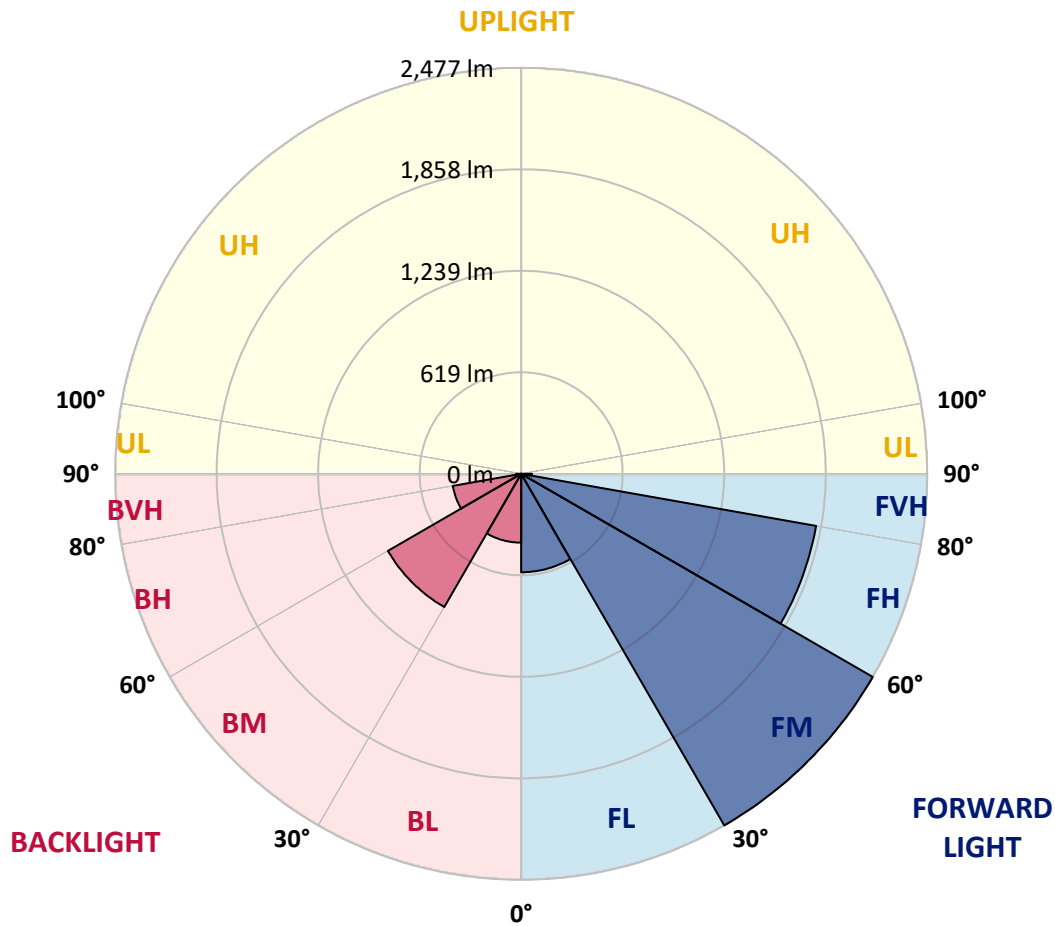
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	600.5	8.9			
FM	(30°-60°)	2477.2	36.5			
FH	(60°-80°)	1827.4	26.9			G2/5000
FVH	(80°-90°)	65.8	1.0			G1/100
BL	(0°-30°)	420.0	6.2	B1/500		
BM	(30°-60°)	938.6	13.8	B1/1000		
BH	(60°-80°)	423.8	6.2	B1/500		G1/500
BVH	(80°-90°)	29.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1180.8	1179.8	1181.9	1174.6	1165.3	1164.3	1164.3	1158.1	1150.9	1136.4	1125.1
5°	1236.6	1234.5	1235.5	1225.2	1212.8	1206.6	1205.6	1192.2	1175.7	1153.0	1132.3
7.5°	1288.2	1286.1	1285.1	1273.7	1255.1	1244.8	1243.8	1224.2	1204.6	1169.5	1139.5
10°	1336.7	1334.6	1332.6	1317.1	1294.4	1278.9	1276.8	1252.0	1227.3	1183.9	1145.7
12.5°	1398.6	1394.5	1392.4	1373.8	1340.8	1324.3	1321.2	1288.2	1257.2	1204.6	1158.1
15°	1463.6	1460.5	1457.4	1439.9	1402.7	1381.1	1375.9	1334.6	1292.3	1231.4	1176.7
17.5°	1512.2	1509.1	1509.1	1493.6	1459.5	1434.7	1430.6	1381.1	1328.4	1256.2	1191.1
20°	1542.1	1539.0	1542.1	1532.8	1507.0	1486.3	1482.2	1427.5	1364.5	1278.9	1203.5
22.5°	1563.8	1560.7	1565.8	1561.7	1543.1	1530.7	1527.6	1474.0	1401.7	1302.6	1215.9
25°	1602.0	1602.0	1602.0	1594.7	1577.2	1573.1	1573.1	1526.6	1449.2	1333.6	1234.5
27.5°	1678.3	1674.2	1669.0	1648.4	1618.5	1617.4	1623.6	1580.3	1503.9	1373.8	1257.2
30°	1790.8	1788.8	1769.2	1725.8	1675.2	1670.1	1674.2	1638.1	1562.7	1416.2	1283.0
32.5°	1936.4	1929.2	1888.9	1823.9	1751.6	1727.9	1736.1	1697.9	1624.7	1459.5	1307.8
35°	2039.6	2041.7	2012.8	1953.9	1868.3	1805.3	1811.5	1765.0	1691.8	1508.0	1338.7
37.5°	2158.3	2165.5	2122.2	2077.8	1998.3	1891.0	1897.2	1834.2	1758.8	1568.9	1371.8
40°	2322.4	2308.0	2234.7	2182.0	2094.3	1980.8	1985.9	1911.6	1836.3	1626.7	1410.0
42.5°	2459.7	2433.9	2345.1	2278.0	2172.8	2075.7	2080.9	1995.2	1914.7	1690.7	1452.3
45°	2656.8	2585.6	2457.6	2424.6	2253.3	2168.6	2173.8	2084.0	1997.3	1758.8	1497.7
47.5°	2771.4	2657.9	2576.3	2558.8	2342.0	2264.6	2270.8	2177.9	2086.0	1836.3	1545.2
50°	2764.2	2690.9	2667.2	2623.8	2420.5	2354.4	2360.6	2274.9	2175.8	1912.6	1590.6
52.5°	2716.7	2730.1	2717.7	2645.5	2498.9	2441.1	2448.3	2370.9	2267.7	1983.9	1632.9
55°	2790.0	2799.3	2775.5	2680.6	2585.6	2527.8	2536.1	2472.1	2358.5	2046.8	1669.0
57.5°	2877.7	2844.7	2821.0	2742.5	2675.4	2621.8	2631.0	2575.3	2437.0	2097.4	1696.9
60°	2873.6	2804.4	2828.2	2746.6	2736.3	2708.5	2716.7	2659.9	2496.9	2134.6	1708.3
62.5°	2662.0	2624.8	2744.6	2716.7	2785.9	2785.9	2796.2	2711.6	2533.0	2150.0	1702.1
65°	2294.5	2296.6	2507.2	2622.8	2844.7	2892.2	2900.4	2743.6	2512.3	2104.6	1644.3
67.5°	1828.0	1841.4	2143.9	2384.3	2785.9	2964.4	2965.5	2772.5	2423.6	1976.6	1510.1
70°	1337.7	1348.0	1705.2	1997.3	2508.2	2804.4	2787.9	2690.9	2230.6	1753.7	1300.6
72.5°	904.2	913.5	1280.9	1533.8	2058.2	2388.5	2352.4	2378.2	1901.3	1440.9	1045.6
75°	608.0	619.3	911.4	1097.2	1514.2	1813.6	1733.0	1801.2	1470.9	1091.0	762.8
77.5°	382.9	390.2	579.1	719.4	1034.3	1234.5	1154.0	1155.0	847.4	587.3	409.8
80°	243.6	245.7	350.9	414.9	598.7	742.1	656.5	533.6	381.9	311.7	244.6
82.5°	141.4	138.3	209.5	234.3	284.9	281.8	233.3	220.9	167.2	155.9	124.9
85°	56.8	52.6	91.9	85.7	86.7	91.9	68.1	68.1	54.7	42.3	31.0
87.5°	11.4	11.4	12.4	11.4	11.4	12.4	9.3	9.3	8.3	8.3	8.3
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°	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1123.0	1121.0	1115.8	1102.4	1095.1	1091.0	1084.8	1082.8	1081.7	1082.8	1085.9
5°	1126.1	1118.9	1104.4	1082.8	1068.3	1059.0	1048.7	1044.6	1041.5	1041.5	1044.6
7.5°	1128.2	1116.8	1092.1	1060.1	1039.4	1025.0	1012.6	1007.4	1006.4	1009.5	1010.5
10°	1129.2	1112.7	1077.6	1037.3	1010.5	991.9	979.5	976.4	979.5	985.7	986.8
12.5°	1136.4	1113.7	1069.3	1021.9	989.9	971.3	962.0	962.0	970.3	981.6	982.6
15°	1148.8	1121.0	1065.2	1009.5	976.4	959.9	956.8	962.0	974.4	991.9	994.0
17.5°	1158.1	1125.1	1055.9	993.0	958.9	948.6	953.7	966.1	983.7	1007.4	1009.5
20°	1164.3	1125.1	1042.5	973.4	941.4	939.3	953.7	973.4	991.9	1019.8	1022.9
22.5°	1170.5	1123.0	1027.0	949.6	921.7	927.9	954.8	979.5	998.1	1028.1	1033.2
25°	1181.9	1126.1	1011.5	925.9	901.1	918.6	953.7	983.7	1003.3	1034.3	1042.5
27.5°	1197.3	1133.3	1000.2	904.2	880.5	904.2	946.5	982.6	1003.3	1033.2	1042.5
30°	1213.9	1141.6	986.8	880.5	856.7	883.6	931.0	971.3	995.0	1022.9	1034.3
32.5°	1231.4	1150.9	975.4	854.6	827.8	855.7	908.3	953.7	979.5	1005.3	1017.7
35°	1255.1	1167.4	969.2	834.0	802.0	826.8	879.4	931.0	958.9	982.6	997.1
37.5°	1284.0	1188.0	966.1	813.4	774.1	794.8	848.5	903.2	933.1	952.7	966.1
40°	1317.1	1213.9	965.1	793.8	746.3	761.8	816.5	871.2	900.1	915.5	926.9
42.5°	1354.2	1242.8	963.0	774.1	718.4	730.8	785.5	839.2	863.9	877.4	887.7
45°	1393.5	1271.7	958.9	750.4	688.5	702.9	753.5	801.0	826.8	838.1	849.5
47.5°	1432.7	1300.6	950.6	723.6	661.6	675.0	719.4	760.7	781.4	791.7	803.0
50°	1470.9	1326.4	931.0	692.6	633.8	646.1	680.2	708.1	723.6	731.8	743.2
52.5°	1504.9	1343.9	903.2	656.5	605.9	612.1	634.8	658.5	670.9	672.0	682.3
55°	1533.8	1353.2	862.9	619.3	576.0	577.0	589.4	608.0	613.1	609.0	616.2
57.5°	1550.3	1348.0	818.5	581.1	545.0	540.9	550.2	559.4	560.5	550.2	557.4
60°	1554.5	1324.3	760.7	542.9	514.0	502.7	505.8	503.7	501.6	497.5	503.7
62.5°	1533.8	1273.7	696.7	505.8	481.0	463.5	462.4	461.4	464.5	465.5	466.5
65°	1458.5	1178.8	620.3	467.6	445.9	422.2	421.1	433.5	437.6	431.5	433.5
67.5°	1312.9	1033.2	536.7	423.2	401.5	380.9	389.1	396.4	403.6	401.5	403.6
70°	1106.5	848.5	460.4	373.7	353.0	341.7	350.9	357.1	358.2	356.1	358.2
72.5°	870.1	662.7	389.1	323.1	304.5	299.3	310.7	315.8	325.1	329.3	330.3
75°	628.6	489.3	318.9	268.4	252.9	252.9	263.2	272.5	280.8	275.6	272.5
77.5°	350.9	292.1	229.1	184.8	187.9	202.3	206.4	216.8	225.0	224.0	221.9
80°	212.6	182.7	154.8	119.7	118.7	130.1	156.9	174.4	178.6	169.3	168.2
82.5°	110.4	96.0	82.6	67.1	74.3	86.7	90.8	109.4	120.8	116.6	121.8
85°	27.9	26.8	29.9	31.0	38.2	42.3	46.4	54.7	36.1	17.5	17.5
87.5°	8.3	8.3	10.3	10.3	13.4	16.5	15.5	15.5	8.3	1.0	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)