

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: P1210717

Luminaire Tested: **ARCH3-50-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

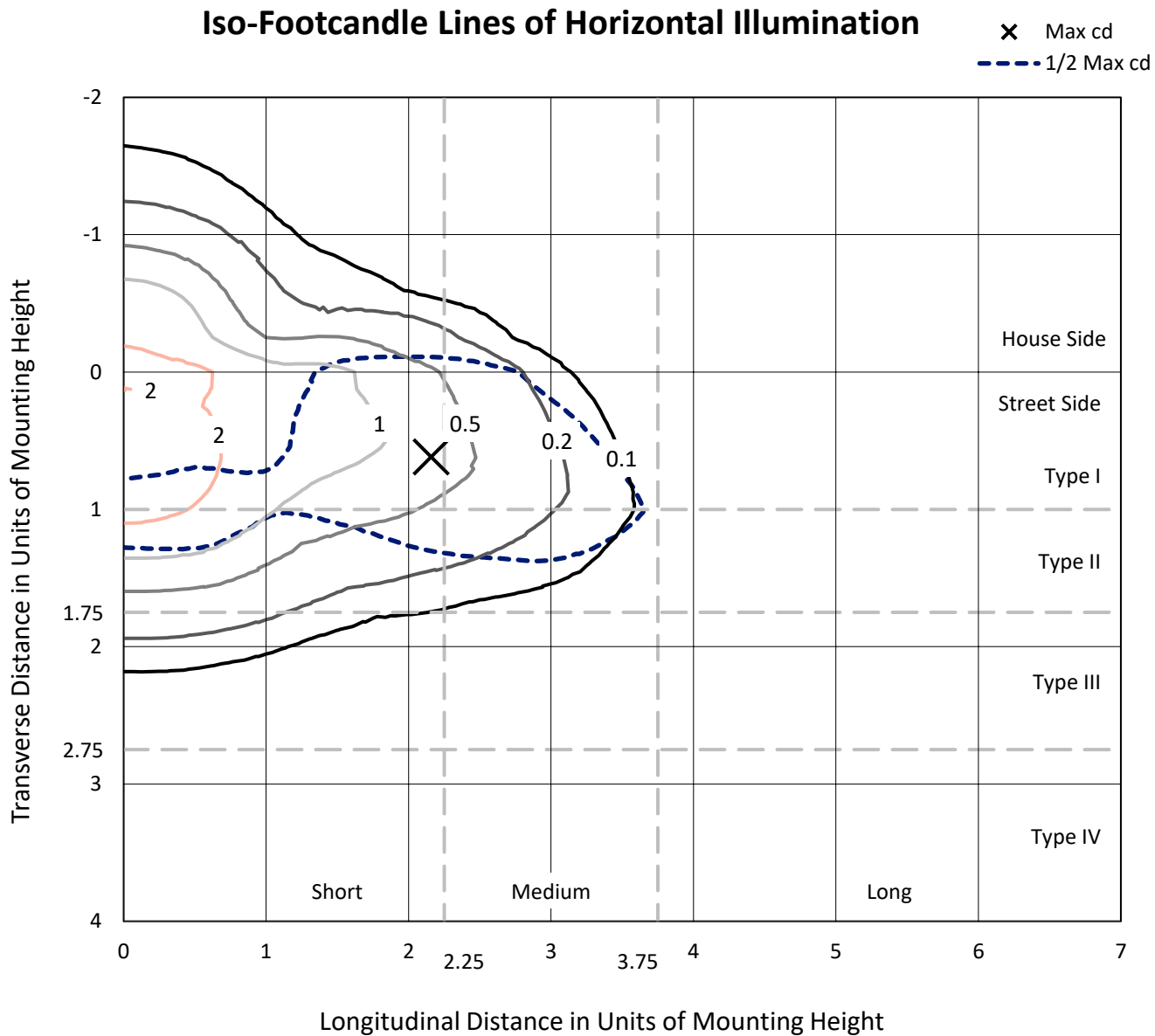
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8622 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.6
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



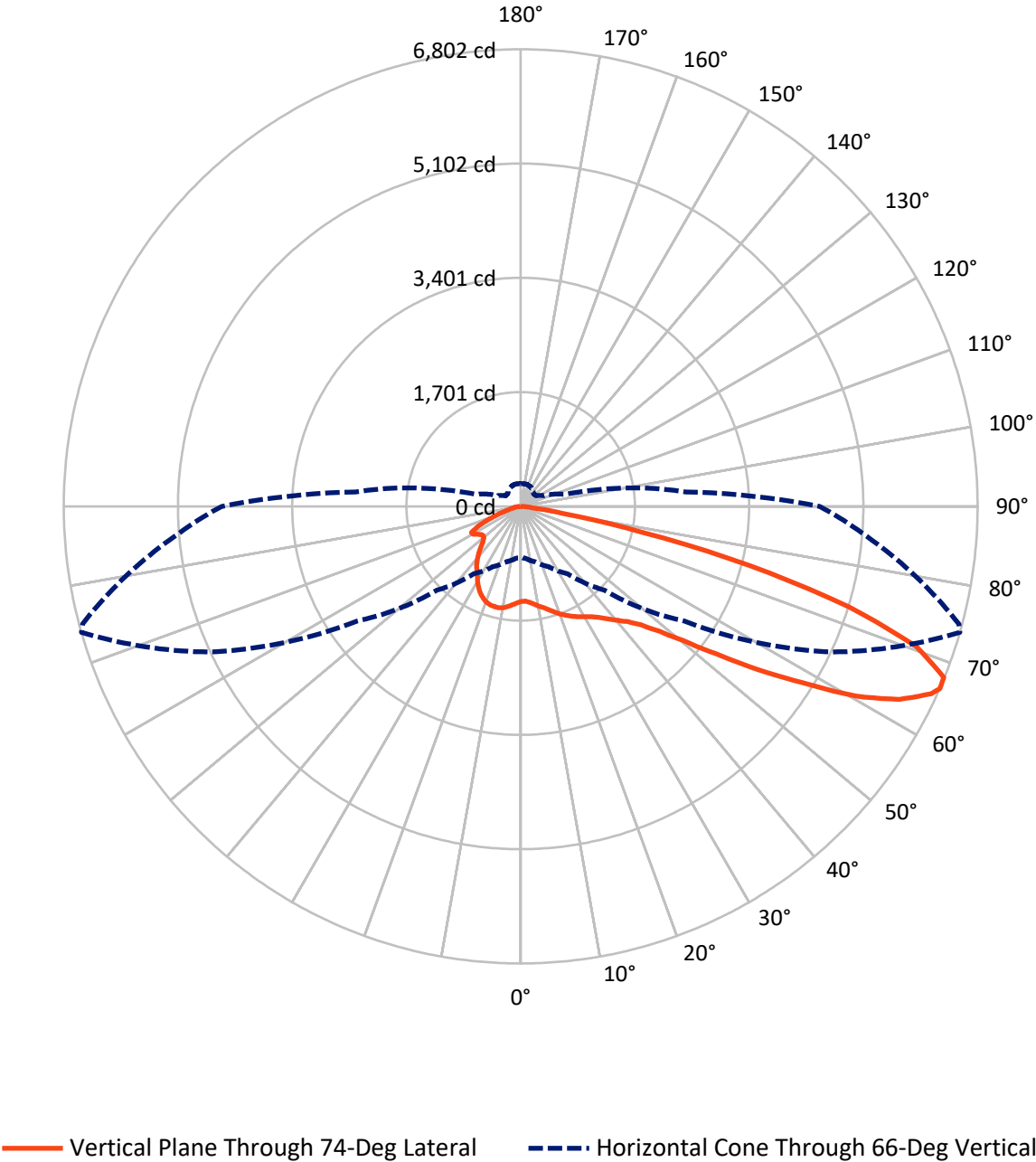
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Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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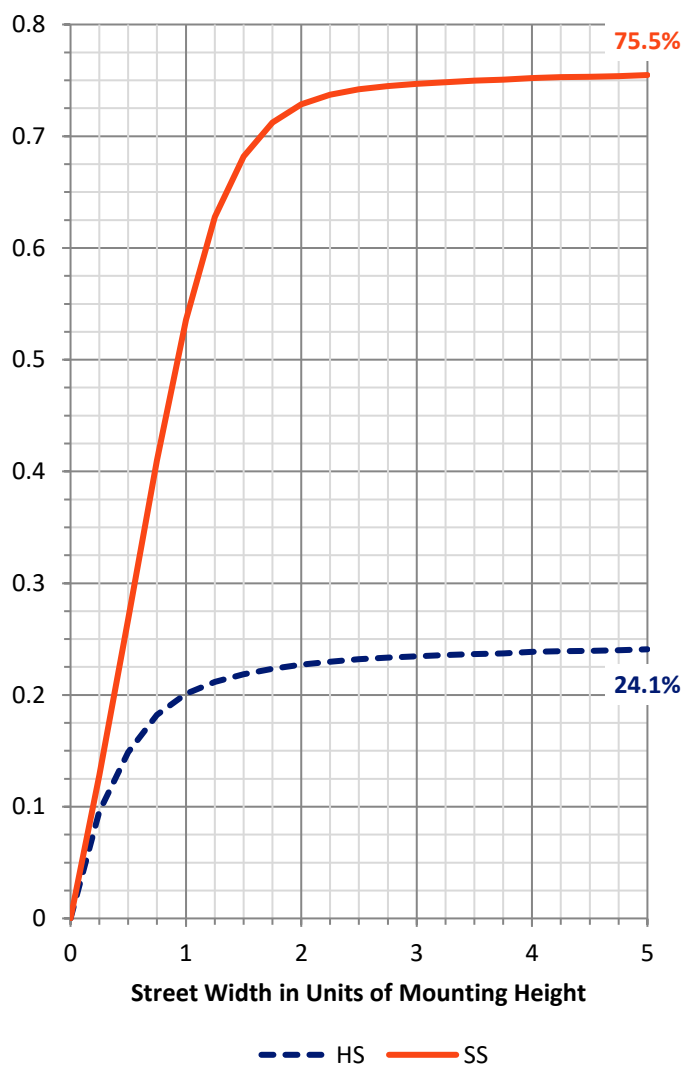
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2099.7	0.0	2099.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	6522.3	0.0	6522.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	8622.0	0.0	8622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	1.6
10°-20°	414.6	4.8
20°-30°	778.0	9.0
30°-40°	1196.8	13.9
40°-50°	1609.8	18.7
50°-60°	1903.8	22.1
60°-70°	1761.1	20.4
70°-80°	740.9	8.6
80°-90°	82.0	1.0
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°	8622.0	100.0
0°-180°	8622.0	100.0

Coefficient of Utilization



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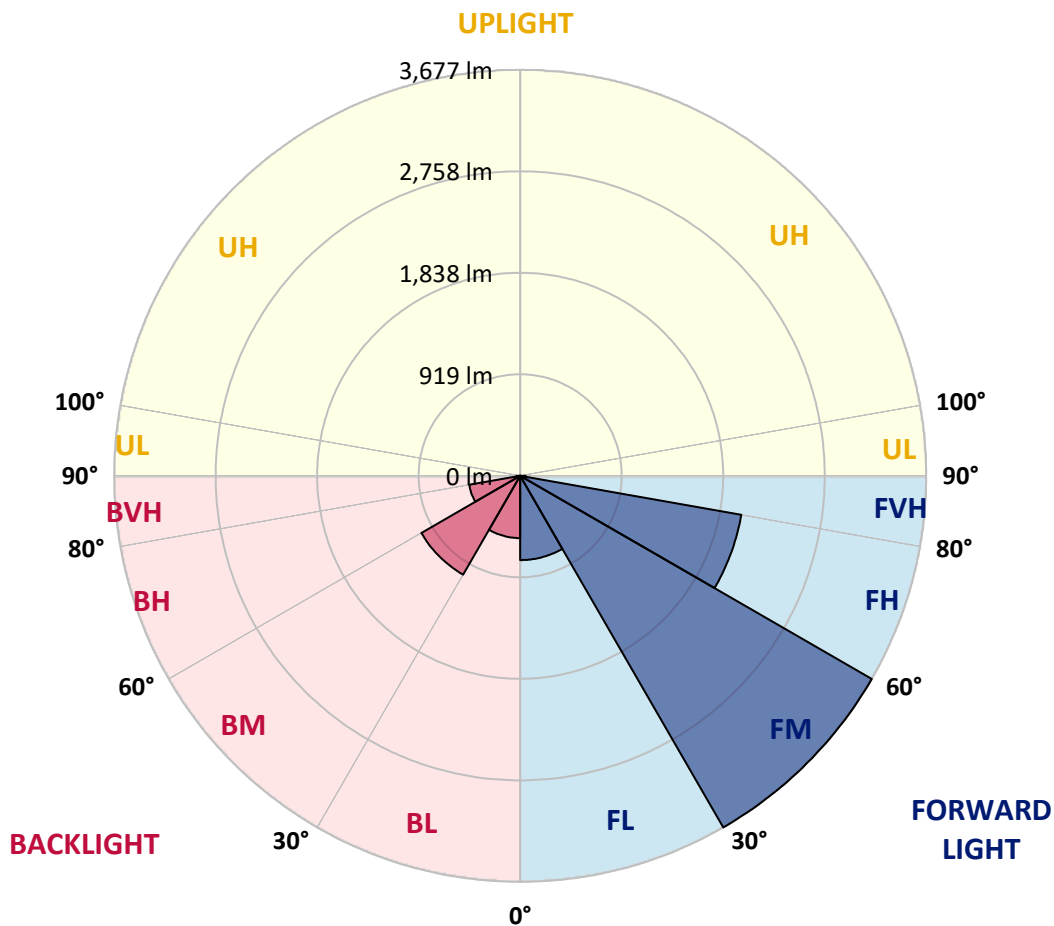
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.2	8.9			
FM	(30°-60°)	3676.8	42.6			
FH	(60°-80°)	2033.3	23.6			G2/5000
FVH	(80°-90°)	49.1	0.6			G1/100
BL	(0°-30°)	564.4	6.5	B2/1000		
BM	(30°-60°)	1033.7	12.0	B2/2500		
BH	(60°-80°)	468.7	5.4	B1/500		G1/500
BVH	(80°-90°)	32.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4
2.5°	1409.0	1406.8	1411.2	1417.9	1421.2	1415.7	1413.4	1412.3	1412.3	1409.0	1414.5
5°	1342.4	1341.3	1351.3	1363.5	1386.8	1403.4	1425.6	1438.9	1434.5	1427.9	1432.3
7.5°	1255.9	1253.7	1265.9	1289.2	1321.3	1358.0	1412.3	1454.5	1471.1	1468.9	1467.8
10°	1289.2	1287.0	1285.8	1279.2	1290.3	1325.8	1382.4	1456.7	1513.3	1514.4	1515.5
12.5°	1404.6	1410.1	1404.6	1383.5	1359.1	1345.8	1379.0	1462.2	1548.8	1555.4	1583.2
15°	1562.1	1556.6	1545.5	1521.0	1483.3	1443.4	1419.0	1487.8	1599.8	1605.4	1666.4
17.5°	1700.8	1705.2	1698.6	1675.3	1630.9	1578.7	1504.4	1532.1	1654.2	1669.7	1755.1
20°	1851.7	1869.4	1860.5	1831.7	1795.1	1717.4	1624.2	1596.5	1714.1	1725.2	1847.2
22.5°	2025.8	2044.7	2028.1	2000.3	1970.4	1875.0	1755.1	1675.3	1764.0	1787.3	1936.0
25°	2234.4	2252.2	2236.6	2193.4	2155.7	2039.2	1896.0	1764.0	1812.8	1838.3	2008.1
27.5°	2399.7	2413.0	2427.5	2401.9	2344.3	2223.3	2042.5	1856.1	1861.6	1888.3	2074.7
30°	2547.3	2580.6	2592.8	2596.1	2547.3	2411.9	2192.3	1951.5	1903.8	1931.5	2141.2
32.5°	2749.2	2799.1	2779.2	2799.1	2770.3	2589.4	2347.6	2050.3	1958.2	1983.7	2204.5
35°	3044.3	3084.3	3032.1	3016.6	2970.0	2769.2	2497.4	2152.3	2030.3	2058.0	2264.4
37.5°	3361.6	3407.1	3331.7	3269.5	3180.8	2946.7	2626.1	2286.6	2130.1	2152.3	2319.8
40°	3639.0	3676.7	3611.2	3529.1	3380.5	3103.1	2737.0	2380.9	2230.0	2257.7	2384.2
42.5°	3895.3	3919.7	3846.4	3767.7	3569.1	3244.0	2856.8	2480.7	2346.5	2373.1	2436.3
45°	4154.9	4173.7	4071.7	3959.6	3726.6	3372.7	2988.8	2620.5	2517.3	2552.8	2520.7
47.5°	4201.5	4207.0	4189.3	4113.8	3850.9	3495.9	3151.9	2808.0	2778.0	2816.9	2666.0
50°	3878.6	3928.5	4038.4	4112.7	3900.8	3599.0	3315.0	3076.5	3137.5	3187.4	2967.8
52.5°	3251.8	3299.5	3553.6	3835.4	3781.0	3622.3	3490.3	3417.1	3644.5	3704.4	3378.3
55°	2590.6	2632.7	2901.2	3307.3	3393.8	3515.8	3677.8	3852.0	4291.3	4331.3	3828.7
57.5°	2133.5	2156.8	2348.7	2739.2	2877.9	3175.2	3778.8	4369.0	4949.2	5010.3	4220.3
60°	1749.6	1775.1	1918.2	2240.0	2424.1	2688.2	3698.9	4879.3	5734.7	5734.7	4722.9
62.5°	1316.9	1339.1	1472.2	1724.1	2033.6	2275.5	3443.7	5217.7	6327.2	6300.5	5086.8
65°	904.2	921.9	1018.5	1186.0	1464.5	1939.3	3095.4	5222.2	6719.9	6684.4	5242.1
66°	758.9	774.4	856.5	991.8	1225.9	1759.6	2972.2	5127.9	6802.0	6752.1	5176.7
67.5°	599.1	610.2	664.6	744.4	898.7	1424.5	2778.0	4860.5	6794.2	6764.3	5010.3
70°	428.2	436.0	476.0	492.6	531.4	824.3	2206.7	4256.9	6249.5	6258.4	4355.7
72.5°	331.7	343.9	368.3	371.7	362.8	438.2	1339.1	3551.3	5112.3	5109.0	3232.9
75°	267.4	274.0	286.2	292.9	290.7	282.9	566.9	2649.4	3519.2	3560.2	1810.6
77.5°	210.8	209.7	220.8	229.7	236.3	221.9	259.6	1553.2	1845.0	1792.9	680.1
80°	155.3	155.3	170.9	174.2	184.2	186.4	173.1	599.1	633.5	575.8	176.4
82.5°	102.1	102.1	118.7	120.9	130.9	145.3	125.4	179.7	175.3	166.4	79.9
85°	55.5	53.3	58.8	66.6	72.1	85.4	75.4	89.9	92.1	91.0	53.3
87.5°	11.1	10.0	15.5	17.8	20.0	26.6	24.4	36.6	51.0	49.9	23.3
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°	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4	1413.4
2.5°	1422.3	1421.2	1433.4	1447.8	1464.5	1474.5	1478.9	1486.7	1481.1	1483.3	1490.0
5°	1443.4	1446.7	1464.5	1483.3	1491.1	1485.5	1473.3	1468.9	1458.9	1456.7	1454.5
7.5°	1474.5	1480.0	1497.8	1502.2	1478.9	1440.1	1412.3	1396.8	1380.1	1375.7	1373.5
10°	1525.5	1528.8	1533.3	1487.8	1430.1	1377.9	1343.5	1329.1	1318.0	1309.1	1311.4
12.5°	1589.8	1587.6	1553.2	1458.9	1376.8	1323.6	1300.3	1291.4	1283.6	1278.1	1277.0
15°	1670.8	1655.3	1556.6	1419.0	1326.9	1282.5	1265.9	1262.5	1253.7	1253.7	1252.6
17.5°	1752.9	1713.0	1554.3	1376.8	1279.2	1254.8	1244.8	1242.6	1240.4	1239.2	1242.6
20°	1835.0	1764.0	1536.6	1324.7	1245.9	1231.5	1229.3	1230.4	1228.2	1231.5	1229.3
22.5°	1907.1	1797.3	1503.3	1269.2	1222.6	1221.5	1216.0	1218.2	1225.9	1227.0	1230.4
25°	1962.6	1809.5	1454.5	1218.2	1206.0	1203.7	1210.4	1219.3	1225.9	1227.0	1232.6
27.5°	2008.1	1802.8	1393.5	1178.2	1177.1	1189.3	1209.3	1212.6	1213.7	1213.7	1209.3
30°	2042.5	1788.4	1315.8	1133.9	1139.4	1169.4	1188.2	1188.2	1179.3	1177.1	1183.8
32.5°	2050.3	1769.6	1231.5	1088.4	1097.2	1132.7	1156.0	1148.3	1138.3	1138.3	1142.7
35°	2056.9	1744.0	1163.8	1026.2	1039.5	1081.7	1103.9	1088.4	1077.3	1073.9	1072.8
37.5°	2054.7	1734.1	1102.8	947.5	965.2	1006.3	1020.7	1006.3	989.6	981.9	991.8
40°	2056.9	1727.4	1026.2	860.9	878.7	903.1	921.9	910.9	895.3	875.4	885.3
42.5°	2070.2	1736.3	941.9	776.6	776.6	789.9	822.1	814.3	776.6	768.8	777.7
45°	2141.2	1784.0	857.6	692.3	680.1	689.0	722.2	689.0	665.7	665.7	673.4
47.5°	2313.2	1872.7	783.3	618.0	589.1	606.9	615.7	584.7	566.9	562.5	570.3
50°	2663.8	2050.3	738.9	556.9	521.4	534.8	529.2	528.1	510.3	512.6	517.0
52.5°	3196.3	2396.4	725.6	527.0	482.6	485.9	480.4	482.6	479.3	490.4	493.7
55°	3776.5	2761.4	742.2	531.4	456.0	432.7	434.9	446.0	459.3	477.1	480.4
57.5°	4210.3	2944.5	785.5	561.4	422.7	387.2	392.7	413.8	439.3	453.8	461.5
60°	4533.2	2922.3	848.7	569.1	382.8	346.1	356.1	387.2	409.4	421.6	429.4
62.5°	4638.6	2783.6	864.3	512.6	330.6	307.3	331.7	363.9	373.9	387.2	392.7
65°	4552.1	2587.2	751.1	416.0	290.7	278.5	314.0	338.4	351.7	358.4	359.5
66°	4450.0	2469.6	690.1	378.3	276.3	269.6	307.3	327.3	340.6	339.5	340.6
67.5°	4225.9	2223.3	591.3	325.1	255.2	256.3	296.2	309.5	314.0	310.6	310.6
70°	3463.7	1565.4	423.8	246.3	224.1	239.6	266.3	269.6	279.6	275.1	275.1
72.5°	2135.7	768.8	284.0	188.6	199.7	224.1	223.0	234.1	257.4	264.0	268.5
75°	1049.5	311.8	187.5	159.8	178.6	187.5	185.3	213.0	246.3	275.1	285.1
77.5°	398.3	155.3	130.9	139.8	144.2	140.9	147.6	193.0	246.3	298.4	308.4
80°	123.1	107.6	103.2	115.4	108.7	103.2	110.9	159.8	208.6	226.3	226.3
82.5°	74.3	84.3	79.9	78.8	73.2	74.3	79.9	114.3	160.9	168.6	168.6
85°	52.1	55.5	45.5	43.3	42.2	41.0	41.0	66.6	95.4	94.3	97.6
87.5°	20.0	22.2	16.6	16.6	15.5	11.1	8.9	11.1	11.1	7.8	5.5
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)