

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: P1210335

Luminaire Tested: **ARCH2-90-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12007 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.7
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

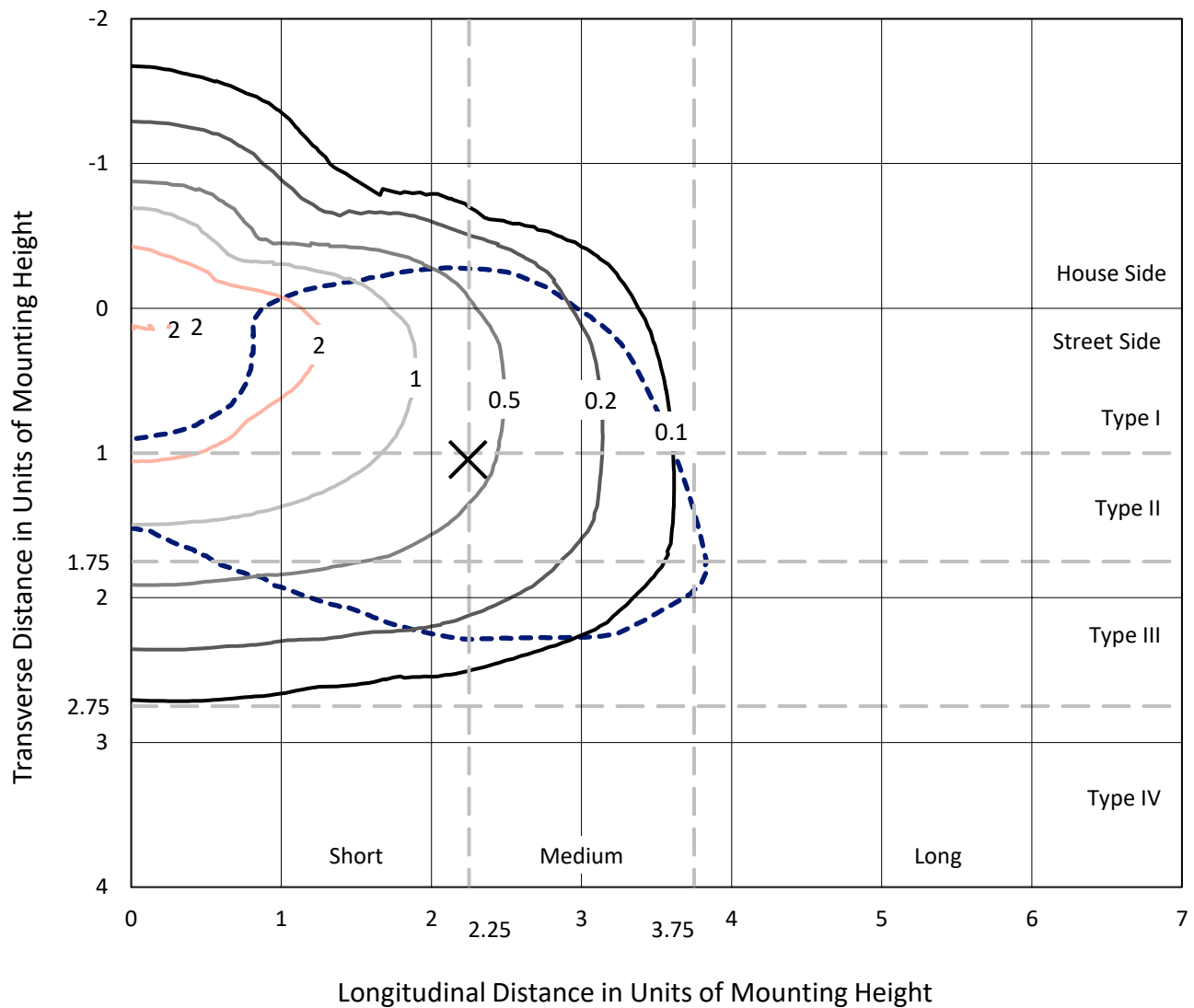


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

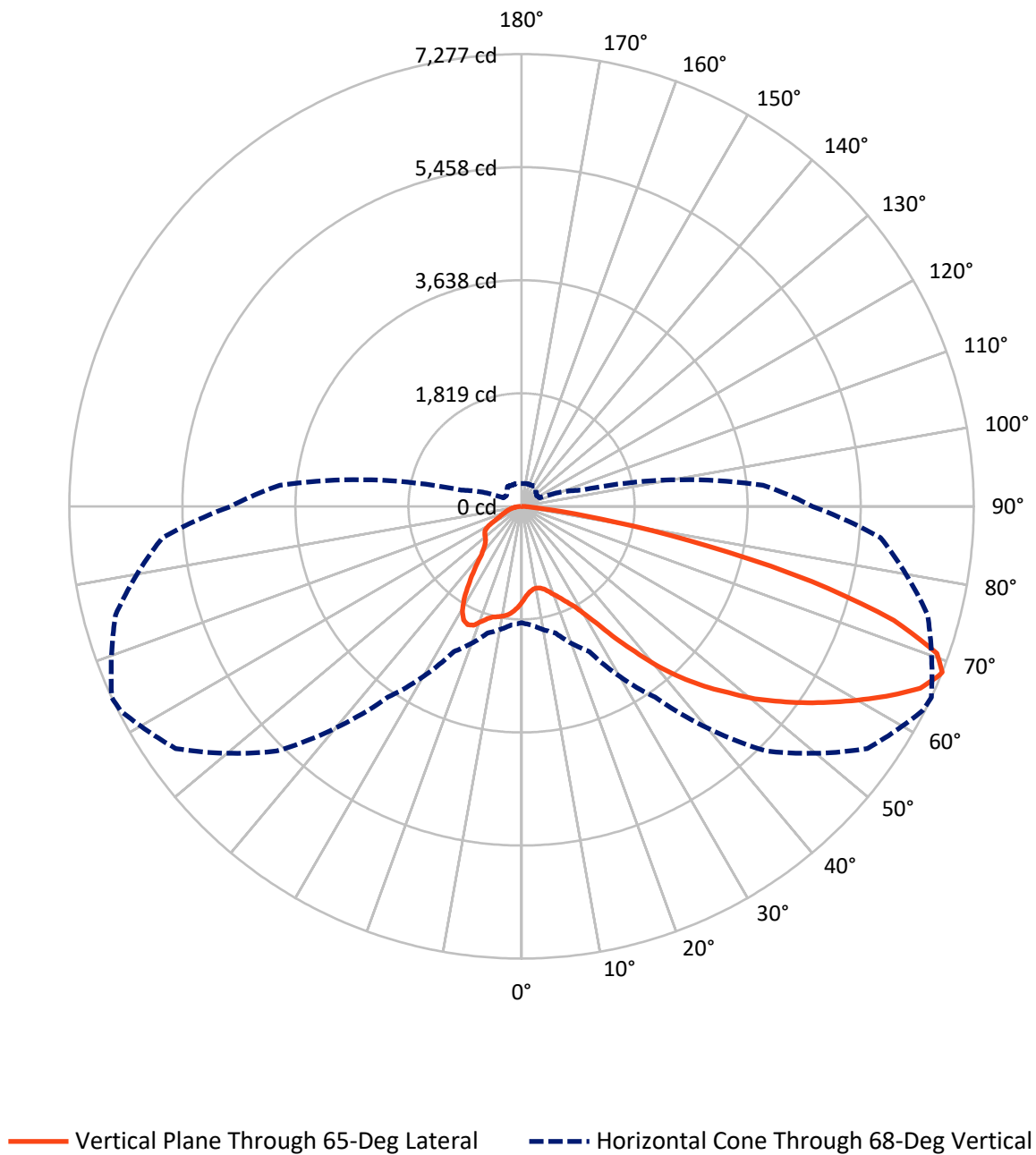


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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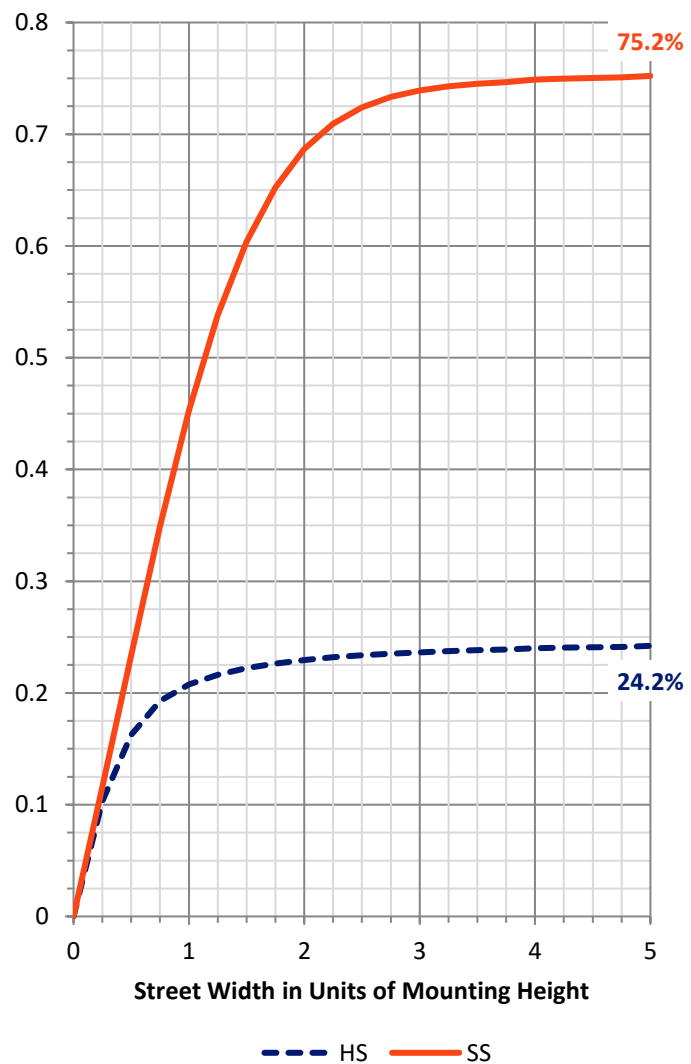
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2943.8	0.0	2943.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9063.2	0.0	9063.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	12007.0	0.0	12007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.2
10°-20°	477.4	4.0
20°-30°	864.1	7.2
30°-40°	1359.4	11.3
40°-50°	2024.7	16.9
50°-60°	2656.0	22.1
60°-70°	2904.5	24.2
70°-80°	1437.2	12.0
80°-90°	137.1	1.1
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°	12007.0	100.0
0°-180°	12007.0	100.0

Coefficient of Utilization



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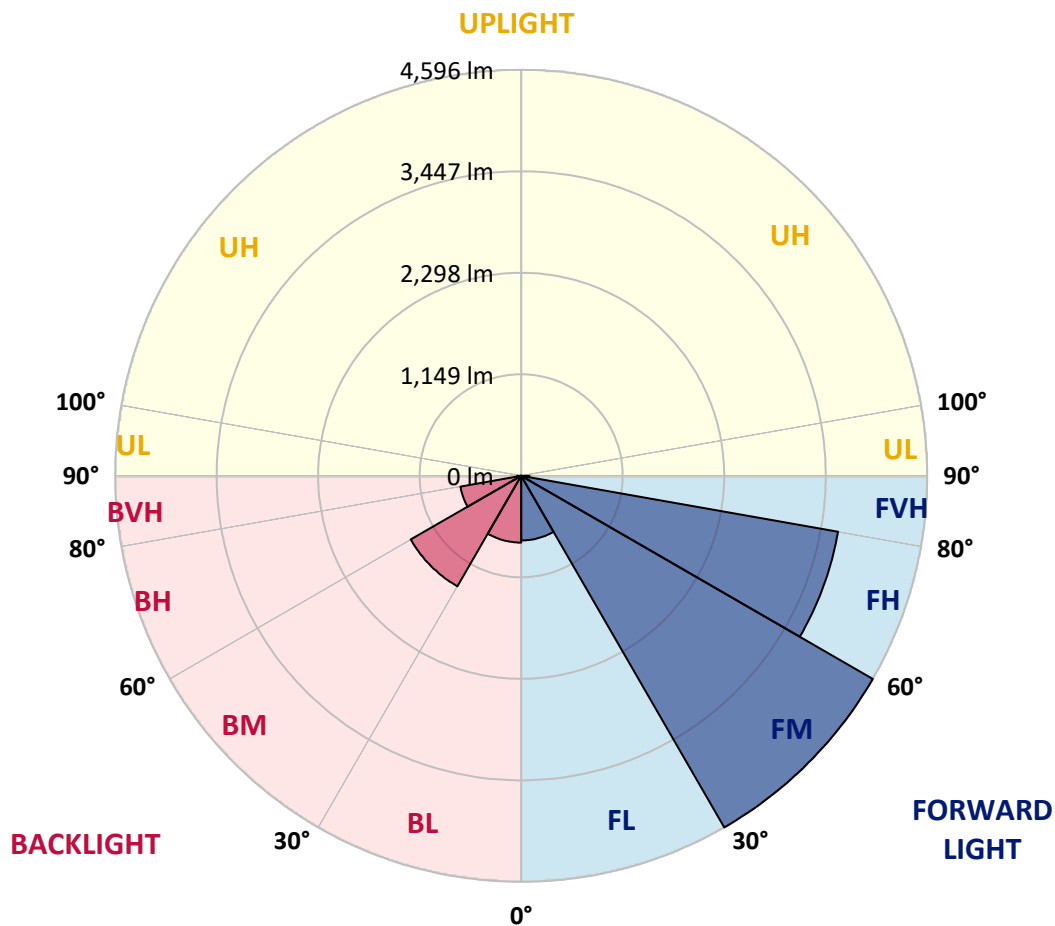
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.0	6.1			
FM	(30°-60°)	4596.1	38.3			
FH	(60°-80°)	3643.0	30.3			G2/5000
FVH	(80°-90°)	92.2	0.8			G1/100
BL	(0°-30°)	756.3	6.3	B2/1000		
BM	(30°-60°)	1443.9	12.0	B2/2500		
BH	(60°-80°)	698.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	44.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3
2.5°	1339.3	1336.2	1343.9	1351.7	1368.7	1388.8	1416.7	1439.9	1443.0	1486.4	1520.4
5°	1260.3	1255.7	1263.4	1272.7	1280.4	1305.2	1334.6	1368.7	1382.6	1446.1	1518.9
7.5°	1268.0	1266.5	1269.6	1266.5	1266.5	1277.3	1297.5	1331.5	1347.0	1422.9	1526.6
10°	1312.9	1316.0	1317.6	1308.3	1299.0	1294.4	1300.6	1323.8	1334.6	1424.4	1560.7
12.5°	1387.3	1391.9	1393.5	1376.4	1364.0	1343.9	1333.1	1342.4	1350.1	1439.9	1608.7
15°	1487.9	1491.0	1480.2	1469.3	1438.4	1413.6	1387.3	1379.5	1382.6	1472.4	1662.9
17.5°	1605.6	1600.9	1600.9	1574.6	1534.3	1495.6	1452.3	1446.1	1446.1	1525.1	1740.3
20°	1734.1	1738.7	1724.8	1689.2	1648.9	1588.5	1545.2	1517.3	1520.4	1585.4	1834.7
22.5°	1919.9	1927.6	1890.5	1839.4	1777.4	1707.8	1645.8	1600.9	1602.5	1664.4	1932.3
25°	2119.6	2122.7	2099.5	2031.3	1947.7	1848.7	1766.6	1709.3	1707.8	1752.7	2057.7
27.5°	2324.0	2337.9	2291.5	2226.4	2149.0	2025.2	1916.8	1839.4	1827.0	1887.4	2214.0
30°	2534.5	2551.6	2506.7	2443.2	2347.2	2241.9	2113.4	2023.6	2015.9	2096.4	2423.1
32.5°	2746.7	2751.3	2715.7	2663.0	2576.3	2477.3	2373.5	2274.4	2266.7	2398.3	2694.0
35°	2920.1	2934.0	2909.2	2896.8	2833.4	2742.0	2641.4	2584.1	2604.2	2773.0	3045.5
37.5°	3129.1	3143.0	3115.1	3112.0	3091.9	3013.0	2943.3	2947.9	2968.1	3197.2	3415.5
40°	3431.0	3446.5	3375.3	3344.3	3344.3	3266.9	3243.7	3353.6	3379.9	3615.2	3801.0
42.5°	3686.5	3711.2	3669.4	3649.3	3588.9	3534.7	3562.6	3717.4	3762.3	4014.7	4137.0
45°	3810.3	3828.9	3878.4	3937.3	3878.4	3784.0	3889.3	4064.2	4127.7	4383.2	4473.0
47.5°	3876.9	3893.9	3951.2	4109.1	4149.4	4070.4	4219.1	4437.4	4480.7	4748.6	4793.5
50°	3886.2	3940.4	4014.7	4172.6	4356.9	4367.7	4550.4	4816.7	4867.8	5107.8	5075.3
52.5°	3810.3	3832.0	3985.3	4251.6	4456.0	4641.8	4911.2	5180.6	5217.7	5445.3	5324.5
55°	3686.5	3717.4	3870.7	4233.0	4552.0	4901.9	5278.1	5538.2	5580.0	5773.5	5555.2
57.5°	3575.0	3590.5	3754.6	4178.8	4647.9	5162.0	5604.8	5911.3	5939.2	6061.5	5725.6
60°	3451.1	3468.2	3632.3	4062.7	4719.2	5358.6	5945.4	6287.6	6312.4	6365.0	5923.7
62.5°	3130.6	3175.5	3381.5	3870.7	4700.6	5583.1	6309.3	6659.2	6690.1	6632.8	6080.1
65°	2542.3	2605.8	2858.1	3435.6	4527.2	5728.6	6606.5	7001.3	7054.0	6834.1	6121.9
67.5°	1974.1	2019.0	2221.8	2726.5	3918.7	5655.9	6798.5	7236.7	7252.2	6801.6	5889.7
68°	1871.9	1916.8	2110.3	2577.9	3749.9	5569.2	6793.9	7242.9	7276.9	6766.0	5799.9
70°	1432.2	1483.3	1667.5	2042.2	3022.2	5018.0	6510.5	7094.2	7089.6	6335.6	5242.5
72.5°	894.9	924.3	1051.3	1288.2	1998.8	3818.1	5525.8	6256.6	6269.0	5165.1	4020.9
75°	568.2	568.2	562.0	624.0	1025.0	2175.3	4107.6	4816.7	4826.0	3616.8	2534.5
77.5°	493.9	480.0	413.4	349.9	408.7	845.4	2430.8	3110.5	3059.4	1947.7	1203.0
80°	416.5	393.3	339.1	281.8	263.2	264.8	933.6	1579.2	1511.1	701.4	399.5
82.5°	300.4	280.2	255.5	221.4	202.8	157.9	195.1	456.7	445.9	202.8	130.1
85°	162.6	147.1	144.0	145.5	122.3	97.5	82.1	100.6	100.6	88.3	74.3
87.5°	57.3	41.8	49.5	55.7	48.0	40.3	32.5	38.7	40.3	38.7	35.6
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°	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3
2.5°	1540.5	1556.0	1593.2	1625.7	1648.9	1669.0	1679.9	1684.5	1695.4	1696.9	1693.8
5°	1552.9	1593.2	1648.9	1696.9	1723.2	1734.1	1737.2	1738.7	1734.1	1737.2	1734.1
7.5°	1585.4	1636.5	1715.5	1757.3	1761.9	1744.9	1746.5	1740.3	1746.5	1752.7	1752.7
10°	1635.0	1700.0	1774.3	1789.8	1769.7	1760.4	1779.0	1816.1	1828.5	1845.6	1845.6
12.5°	1700.0	1777.4	1830.1	1816.1	1797.6	1828.5	1882.7	1919.9	1932.3	1938.5	1933.8
15°	1774.3	1857.9	1884.3	1837.8	1871.9	1938.5	1957.0	1935.4	1904.4	1890.5	1898.2
17.5°	1868.8	1938.5	1923.0	1892.0	1969.4	1978.7	1918.3	1848.7	1799.1	1780.5	1792.9
20°	1967.9	2028.3	1957.0	1971.0	2019.0	1919.9	1805.3	1715.5	1672.1	1664.4	1676.8
22.5°	2073.2	2111.9	1991.1	2062.3	1991.1	1789.8	1652.0	1605.6	1594.7	1607.1	1618.0
25°	2192.4	2187.7	2049.9	2090.2	1887.4	1630.3	1548.3	1545.2	1545.2	1552.9	1568.4
27.5°	2327.1	2254.3	2108.8	2053.0	1707.8	1498.7	1483.3	1484.8	1480.2	1481.7	1489.4
30°	2483.4	2344.1	2173.8	1930.7	1506.5	1399.6	1393.5	1388.8	1378.0	1374.9	1378.0
32.5°	2680.1	2438.5	2240.4	1729.4	1330.0	1297.5	1294.4	1269.6	1243.3	1240.2	1251.0
35°	2929.4	2610.4	2274.4	1477.1	1184.4	1182.9	1172.1	1133.3	1099.3	1099.3	1091.5
37.5°	3214.2	2831.8	2288.4	1230.9	1063.7	1071.4	1040.4	990.9	964.6	949.1	953.7
40°	3505.3	3084.2	2286.8	1015.7	958.4	959.9	936.7	876.3	811.3	772.6	781.9
42.5°	3785.6	3313.3	2246.6	901.1	873.2	868.6	850.0	767.9	713.8	682.8	684.3
45°	4010.1	3550.2	2184.6	833.0	795.8	803.6	761.8	712.2	662.7	634.8	633.2
47.5°	4234.6	3729.8	2085.5	791.2	738.5	724.6	707.6	673.5	636.3	605.4	606.9
50°	4438.9	3883.1	1992.6	763.3	685.9	650.3	653.4	633.2	600.7	572.9	571.3
52.5°	4582.9	3983.7	1941.5	747.8	622.4	583.7	594.5	583.7	552.7	532.6	531.1
55°	4726.9	4061.1	1958.6	727.7	552.7	521.8	540.4	537.3	520.2	514.0	515.6
57.5°	4843.0	4120.0	2019.0	690.5	486.2	467.6	498.5	489.3	476.9	478.4	478.4
60°	4956.1	4195.8	2090.2	605.4	428.9	430.4	459.8	442.8	435.1	449.0	450.6
62.5°	5073.7	4277.9	2031.3	481.5	379.3	390.2	424.2	410.3	413.4	433.5	439.7
65°	5059.8	4270.2	1655.1	394.8	336.0	357.7	408.7	404.1	405.7	413.4	416.5
67.5°	4774.9	3997.7	1138.0	336.0	305.0	331.3	396.4	377.8	379.3	374.7	376.2
68°	4678.9	3901.7	1003.3	326.7	298.8	325.1	390.2	373.1	374.7	370.0	368.5
70°	4155.6	3341.2	634.8	288.0	277.1	308.1	359.2	353.0	351.5	348.4	348.4
72.5°	3167.8	2466.4	334.4	249.3	252.4	281.8	320.5	332.9	325.1	326.7	336.0
75°	2097.9	1483.3	232.2	213.7	221.4	241.5	284.9	309.7	301.9	306.6	301.9
77.5°	1110.1	798.9	185.8	181.1	181.1	195.1	235.3	274.0	274.0	270.9	266.3
80°	363.8	281.8	148.6	142.4	145.5	153.3	188.9	224.5	229.1	223.0	219.9
82.5°	122.3	130.1	111.5	103.7	106.8	113.0	142.4	171.9	173.4	161.0	157.9
85°	75.9	86.7	69.7	68.1	68.1	69.7	86.7	94.4	86.7	77.4	80.5
87.5°	35.6	43.4	32.5	27.9	23.2	20.1	15.5	6.2	6.2	3.1	3.1
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)