

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: P1210534

Luminaire Tested: **ARCH3-150-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15404 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 150.7
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

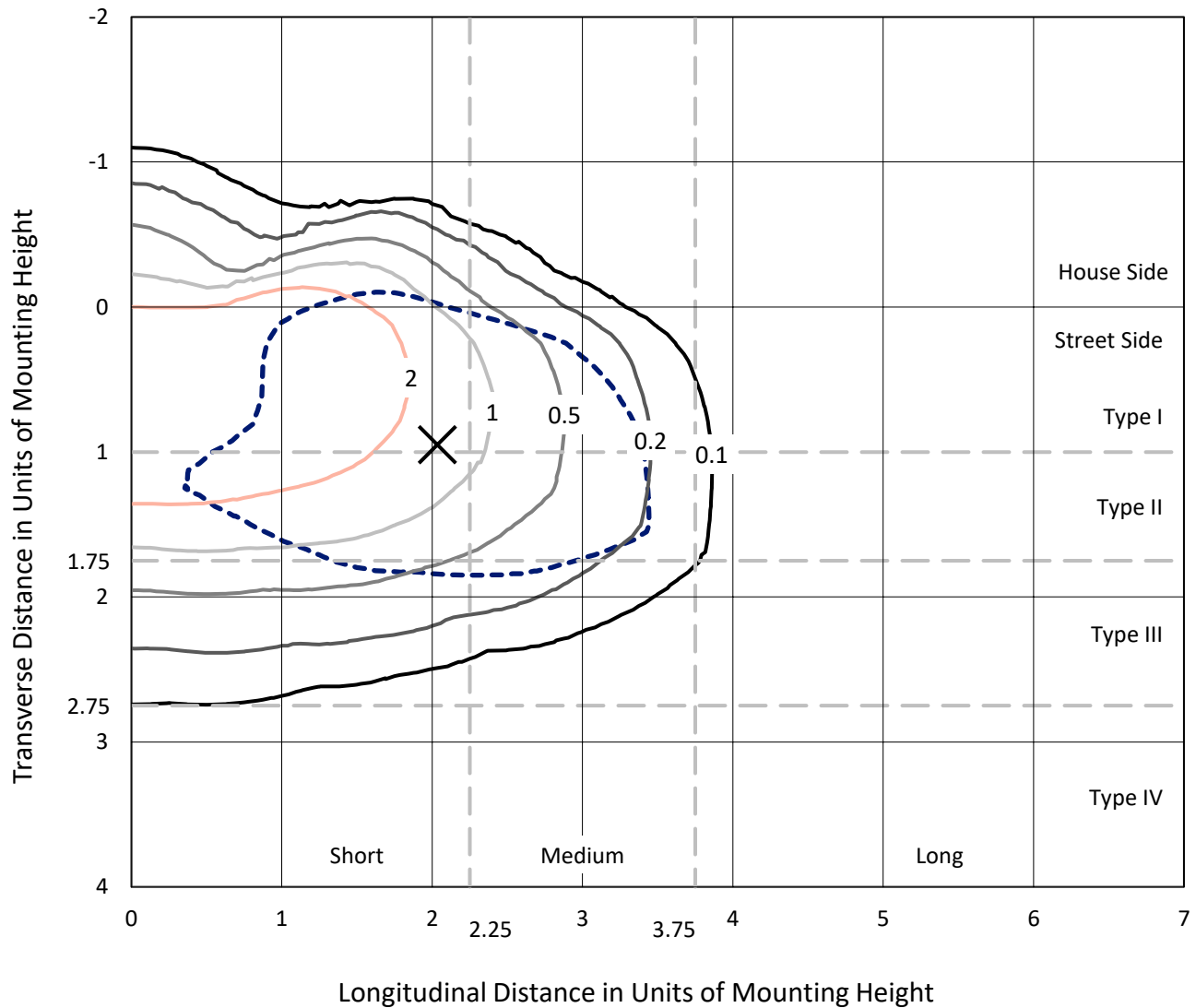


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Iso-Footcandle Lines of Horizontal Illumination

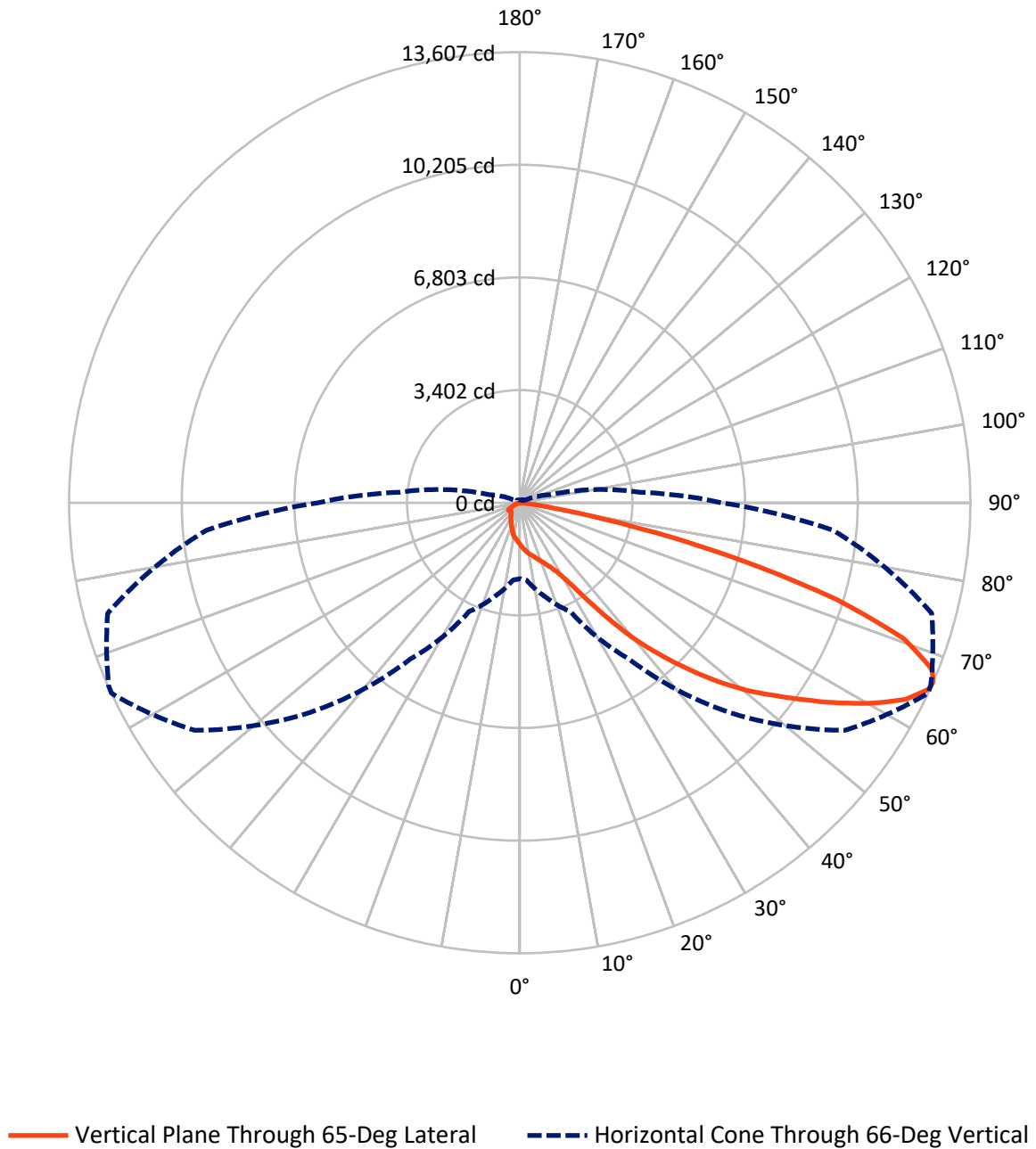
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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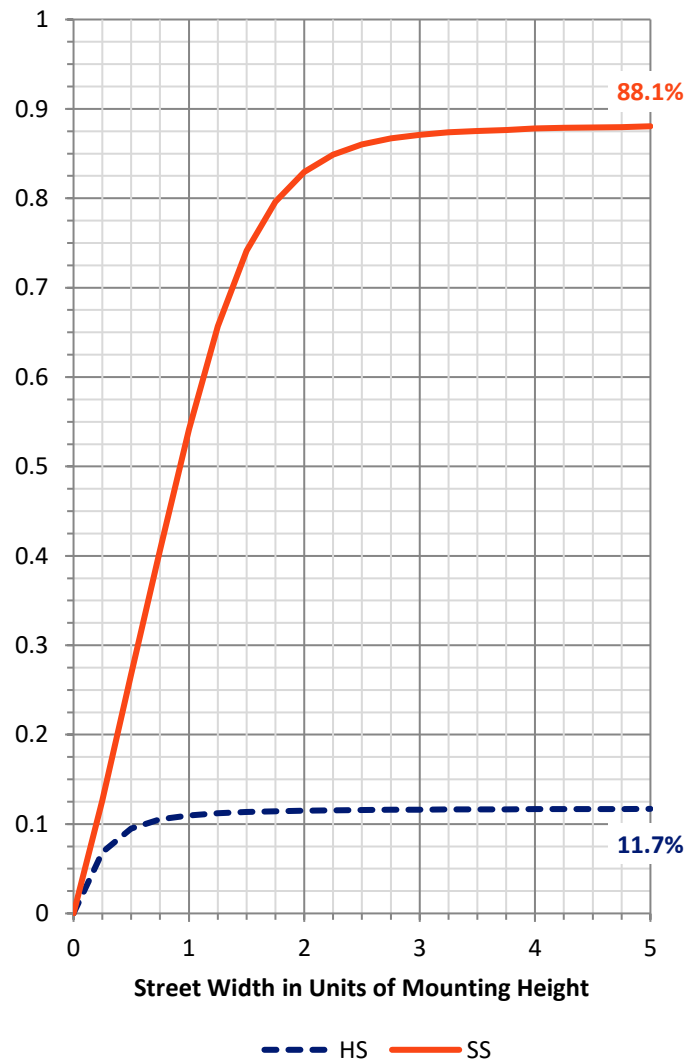
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1818.0	0.0	1818.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13586.0	0.0	13586.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	15404.0	0.0	15404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	0.8
10°-20°	352.2	2.3
20°-30°	644.6	4.2
30°-40°	1309.9	8.5
40°-50°	2766.1	18.0
50°-60°	4252.5	27.6
60°-70°	4280.4	27.8
70°-80°	1599.4	10.4
80°-90°	79.9	0.5
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°	15404.0	100.0
0°-180°	15404.0	100.0

Coefficient of Utilization



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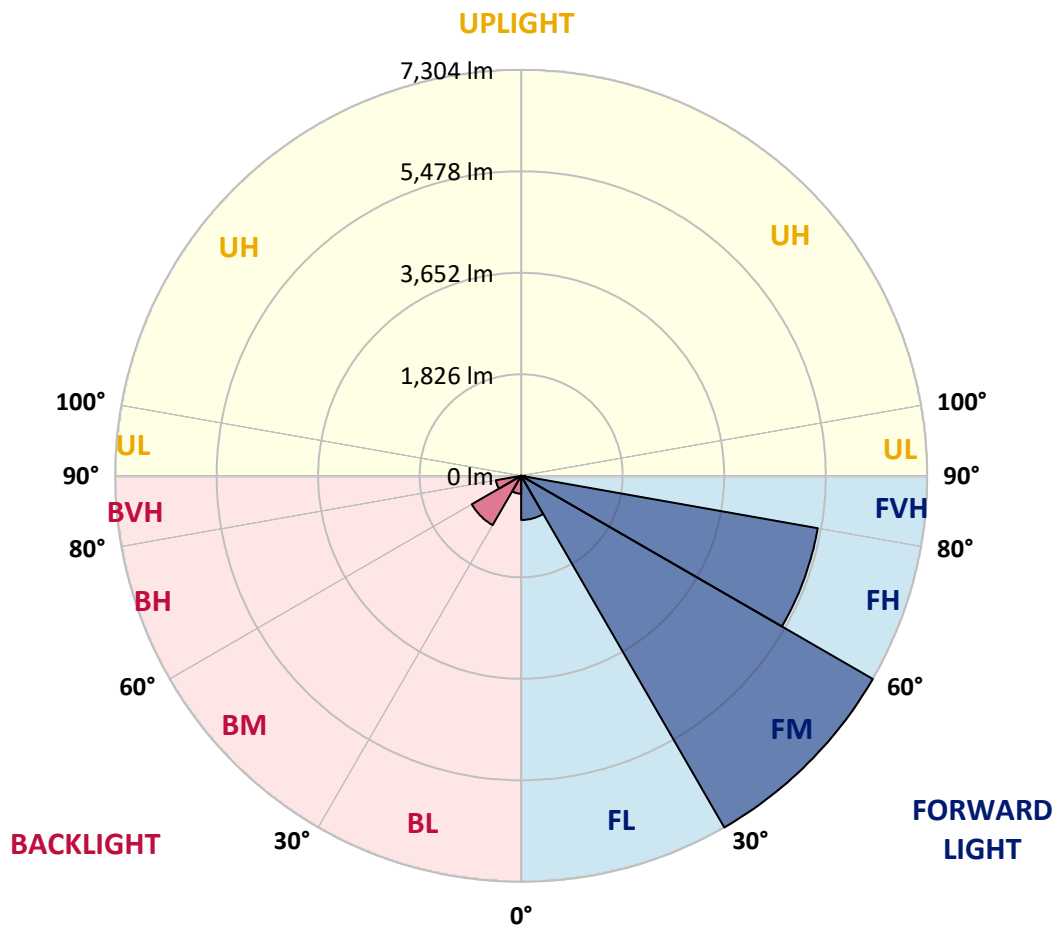
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	794.1	5.2			
FM	(30°-60°)	7303.5	47.4			
FH	(60°-80°)	5418.0	35.2			G3/7500
FVH	(80°-90°)	70.5	0.5			G1/100
BL	(0°-30°)	321.8	2.1	B1/500		
BM	(30°-60°)	1025.0	6.7	B2/2500		
BH	(60°-80°)	461.8	3.0	B1/500		G1/500
BVH	(80°-90°)	9.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0
2.5°	1431.1	1433.9	1428.3	1417.1	1405.9	1392.0	1369.6	1333.3	1327.7	1302.5	1274.6
5°	1528.9	1534.5	1526.1	1523.3	1517.7	1498.2	1467.4	1414.3	1408.7	1358.4	1294.1
7.5°	1562.5	1570.8	1565.2	1565.2	1565.2	1556.9	1542.9	1495.4	1487.0	1422.7	1324.9
10°	1587.6	1593.2	1590.4	1601.6	1610.0	1604.4	1596.0	1568.0	1559.7	1495.4	1366.8
12.5°	1626.7	1629.5	1632.3	1637.9	1651.9	1657.5	1654.7	1629.5	1623.9	1579.2	1419.9
15°	1663.1	1663.1	1665.9	1691.0	1710.6	1721.8	1724.6	1705.0	1699.4	1663.1	1487.0
17.5°	1696.6	1699.4	1707.8	1735.7	1769.3	1791.6	1805.6	1797.2	1788.9	1760.9	1565.2
20°	1746.9	1752.5	1760.9	1800.0	1833.6	1869.9	1897.9	1895.1	1892.3	1872.7	1657.5
22.5°	1833.6	1839.2	1853.1	1889.5	1923.0	1967.7	2015.3	2012.5	2004.1	1990.1	1766.5
25°	1964.9	1964.9	1973.3	2004.1	2046.0	2099.1	2143.8	2152.2	2143.8	2135.4	1903.5
27.5°	2129.9	2132.6	2132.6	2166.2	2205.3	2272.4	2328.3	2336.7	2336.7	2328.3	2087.9
30°	2359.1	2350.7	2345.1	2373.0	2415.0	2512.8	2610.6	2627.4	2619.0	2633.0	2347.9
32.5°	2753.2	2739.2	2691.7	2697.3	2722.4	2856.6	3021.5	3080.2	3077.4	3102.5	2767.1
35°	3298.2	3270.2	3200.4	3141.7	3138.9	3284.2	3535.8	3756.6	3753.8	3840.4	3404.4
37.5°	3913.1	3949.5	3818.1	3717.5	3686.7	3801.3	4125.5	4603.5	4628.7	4779.6	4240.1
40°	4734.9	4757.2	4589.5	4447.0	4301.6	4343.6	4771.2	5514.7	5559.4	5727.1	5075.9
42.5°	5450.4	5472.8	5374.9	5201.7	5017.2	4938.9	5422.5	6342.0	6378.4	6610.4	5936.8
45°	5936.8	5953.5	5987.1	6003.8	5794.2	5632.1	6219.1	7191.8	7236.5	7504.8	6778.1
47.5°	6316.9	6330.9	6397.9	6565.7	6523.7	6395.2	7029.6	8075.0	8086.2	8385.3	7597.0
50°	6493.0	6526.5	6691.4	6948.6	7133.1	7169.4	7910.1	8910.7	8941.5	9226.6	8371.3
52.5°	6297.3	6308.5	6725.0	7208.5	7580.3	7949.2	8793.3	9685.0	9774.4	9986.8	9067.3
55°	5637.7	5718.7	6350.4	7200.1	7932.4	8689.9	9738.1	10520.7	10601.8	10735.9	9679.4
57.5°	4871.8	4961.3	5729.9	6839.6	8083.4	9374.7	10612.9	11409.5	11465.4	11501.8	10241.2
60°	4209.4	4293.2	5084.3	6149.2	7932.4	9858.3	11426.3	12292.8	12340.3	12242.5	10523.5
62.5°	3396.0	3479.9	4276.5	5235.2	7339.9	9956.1	12030.0	13078.2	13097.8	12832.2	10350.2
65°	2560.3	2616.2	3281.4	4103.2	6302.9	9436.2	12167.0	13567.3	13547.8	13002.7	9830.3
66°	2294.8	2342.3	2929.2	3628.0	5763.5	8961.0	11982.5	13606.5	13586.9	12877.0	9489.3
67.5°	1978.9	1992.9	2476.4	2968.4	4821.5	7952.0	11420.7	13427.6	13444.4	12530.4	8866.0
70°	1545.7	1542.9	1822.4	2065.6	3292.6	5657.2	9525.6	12301.2	12382.2	11222.3	7560.7
72.5°	989.5	955.9	1118.0	1263.4	1917.4	3284.2	6945.8	10026.0	10162.9	8815.7	5632.1
75°	589.8	556.2	595.4	631.7	919.6	1579.2	4083.6	6822.8	6954.2	5651.7	3351.3
77.5°	441.6	427.6	430.4	399.7	408.1	592.6	1864.3	3605.7	3700.7	2314.3	1271.8
80°	338.2	301.9	282.3	296.3	268.3	234.8	693.2	1241.0	1299.7	547.8	265.5
82.5°	226.4	195.7	181.7	198.5	170.5	131.4	167.7	240.4	234.8	148.1	103.4
85°	117.4	100.6	100.6	100.6	86.6	64.3	72.7	97.8	97.8	78.3	61.5
87.5°	33.5	30.7	36.3	33.5	25.2	25.2	28.0	33.5	33.5	30.7	28.0
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°	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0	1255.0
2.5°	1252.2	1241.0	1210.3	1187.9	1165.5	1146.0	1123.6	1118.0	1106.9	1109.6	1104.1
5°	1260.6	1229.8	1176.7	1126.4	1087.3	1053.7	1011.8	995.0	972.7	964.3	958.7
7.5°	1271.8	1227.0	1148.8	1078.9	1011.8	944.7	877.7	838.5	813.4	802.2	793.8
10°	1296.9	1238.2	1134.8	1025.8	911.2	816.2	749.1	721.1	704.4	701.6	698.8
12.5°	1330.5	1255.0	1120.8	958.7	807.8	718.3	676.4	668.0	665.2	665.2	662.4
15°	1380.8	1282.9	1098.5	880.5	726.7	665.2	645.7	631.7	626.1	626.1	626.1
17.5°	1431.1	1316.5	1064.9	799.4	670.8	631.7	612.1	603.7	598.1	600.9	598.1
20°	1495.4	1355.6	1020.2	729.5	634.5	603.7	584.2	575.8	573.0	573.0	573.0
22.5°	1568.0	1400.3	964.3	676.4	603.7	575.8	556.2	547.8	542.2	545.0	545.0
25°	1665.9	1456.2	905.6	623.3	573.0	547.8	525.5	514.3	514.3	517.1	519.9
27.5°	1791.6	1523.3	846.9	589.8	545.0	519.9	494.7	483.5	486.3	491.9	491.9
30°	1976.1	1615.6	788.2	553.4	514.3	486.3	464.0	452.8	458.4	469.6	469.6
32.5°	2238.9	1766.5	737.9	511.5	469.6	438.8	416.5	408.1	422.1	444.4	444.4
35°	2708.4	2043.2	707.2	469.6	422.1	385.7	357.8	349.4	369.0	396.9	396.9
37.5°	3337.3	2487.6	718.3	433.2	382.9	341.0	310.3	299.1	313.0	338.2	346.6
40°	4038.9	3024.3	816.2	402.5	346.6	304.7	273.9	262.7	271.1	282.3	285.1
42.5°	4740.5	3594.5	1000.6	380.1	318.6	273.9	246.0	237.6	243.2	246.0	248.8
45°	5439.2	4159.1	1232.6	366.2	293.5	248.8	220.8	220.8	223.6	223.6	223.6
47.5°	6101.7	4709.7	1475.8	363.4	271.1	223.6	201.2	204.0	204.0	206.8	206.8
50°	6727.8	5201.7	1721.8	371.7	251.6	201.2	184.5	184.5	184.5	187.3	184.5
52.5°	7250.4	5632.1	1978.9	385.7	232.0	184.5	167.7	167.7	167.7	170.5	167.7
55°	7745.2	6023.4	2241.7	405.3	215.2	170.5	153.7	148.1	148.1	150.9	148.1
57.5°	8147.7	6283.3	2490.4	408.1	201.2	156.5	142.5	134.2	134.2	134.2	134.2
60°	8164.4	6132.4	2563.1	357.8	184.5	142.5	128.6	117.4	120.2	120.2	120.2
62.5°	7630.6	5338.6	2060.0	268.3	164.9	128.6	117.4	106.2	106.2	106.2	106.2
65°	6582.4	4153.5	1207.5	212.4	142.5	114.6	103.4	95.0	95.0	95.0	92.2
66°	6090.5	3642.0	925.2	192.9	134.2	111.8	100.6	92.2	89.4	86.6	86.6
67.5°	5288.3	2878.9	578.6	170.5	123.0	103.4	92.2	83.9	81.1	78.3	78.3
70°	3983.0	1828.0	282.3	131.4	106.2	89.4	81.1	72.7	69.9	67.1	64.3
72.5°	2795.1	1070.5	148.1	100.6	86.6	78.3	69.9	61.5	58.7	55.9	55.9
75°	1579.2	517.1	97.8	72.7	69.9	64.3	58.7	50.3	47.5	47.5	47.5
77.5°	598.1	178.9	67.1	53.1	55.9	50.3	41.9	41.9	39.1	41.9	39.1
80°	156.5	78.3	41.9	39.1	41.9	36.3	30.7	33.5	33.5	33.5	33.5
82.5°	83.9	44.7	25.2	28.0	25.2	25.2	19.6	22.4	25.2	22.4	25.2
85°	58.7	22.4	14.0	14.0	11.2	11.2	8.4	11.2	14.0	11.2	11.2
87.5°	30.7	8.4	8.4	8.4	8.4	5.6	2.8	0.0	2.8	2.8	2.8
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)