

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: P1210839

Luminaire Tested: **ARCH3-90-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210839
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: ARCH3-90-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12388 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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



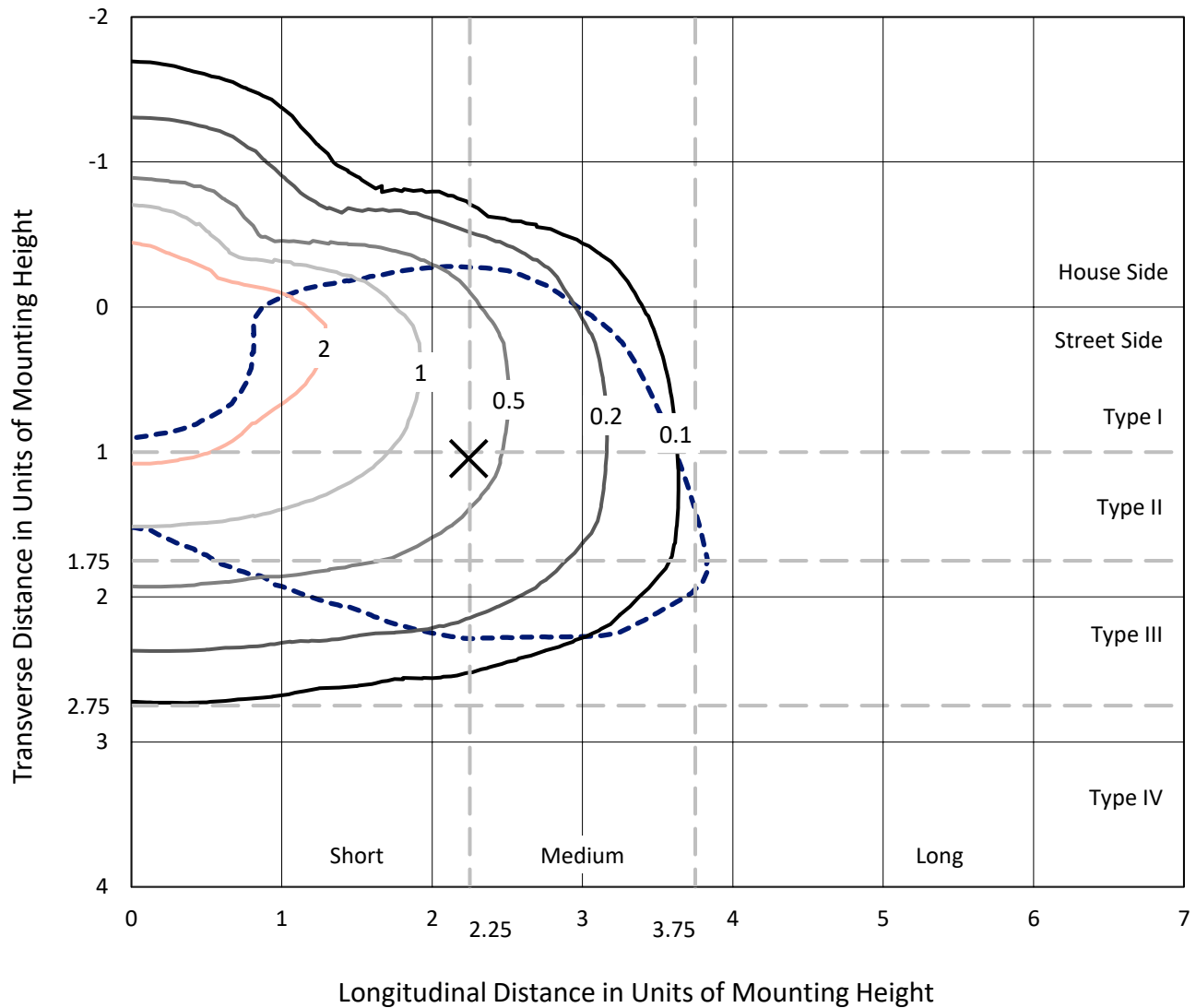
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

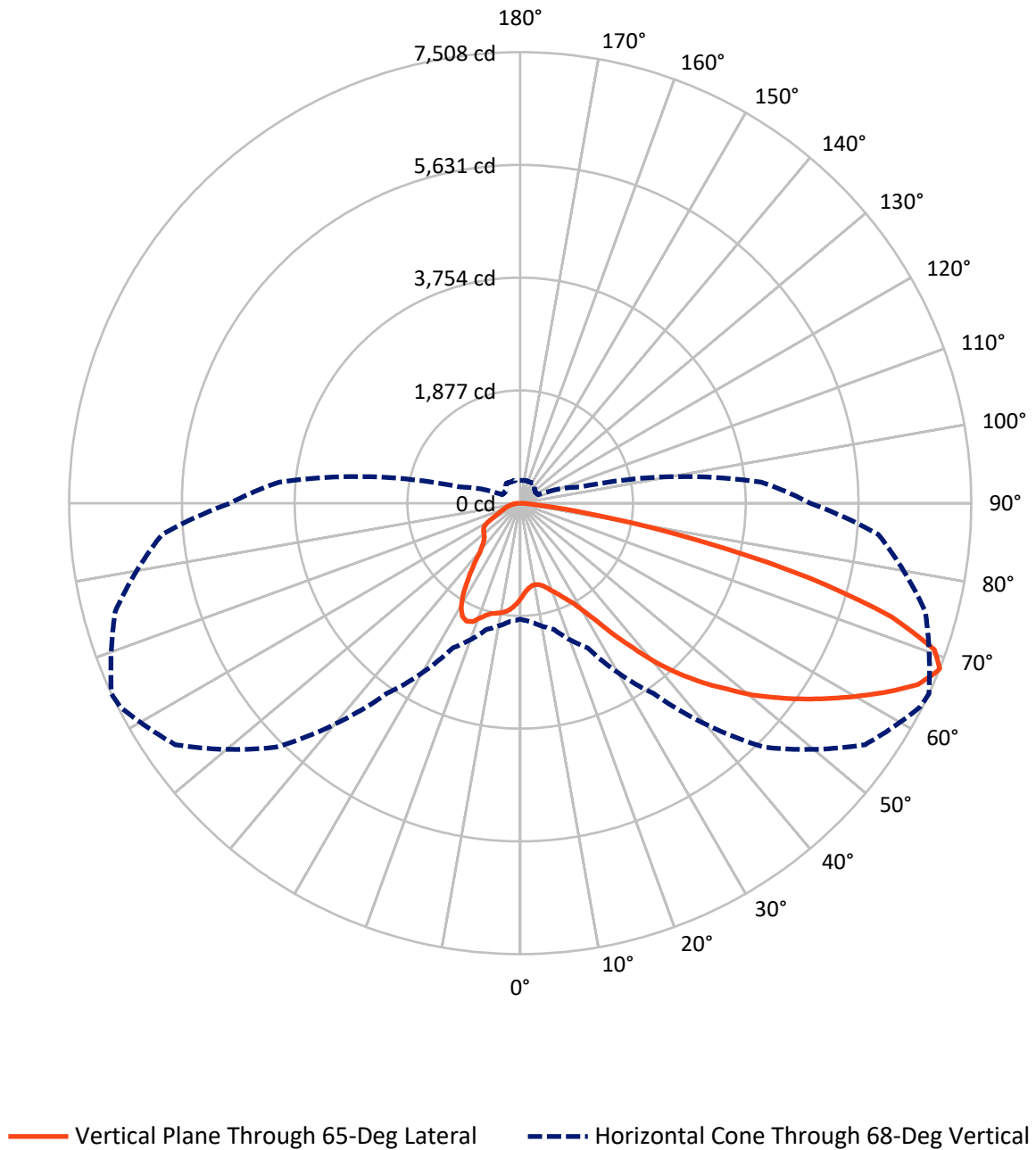
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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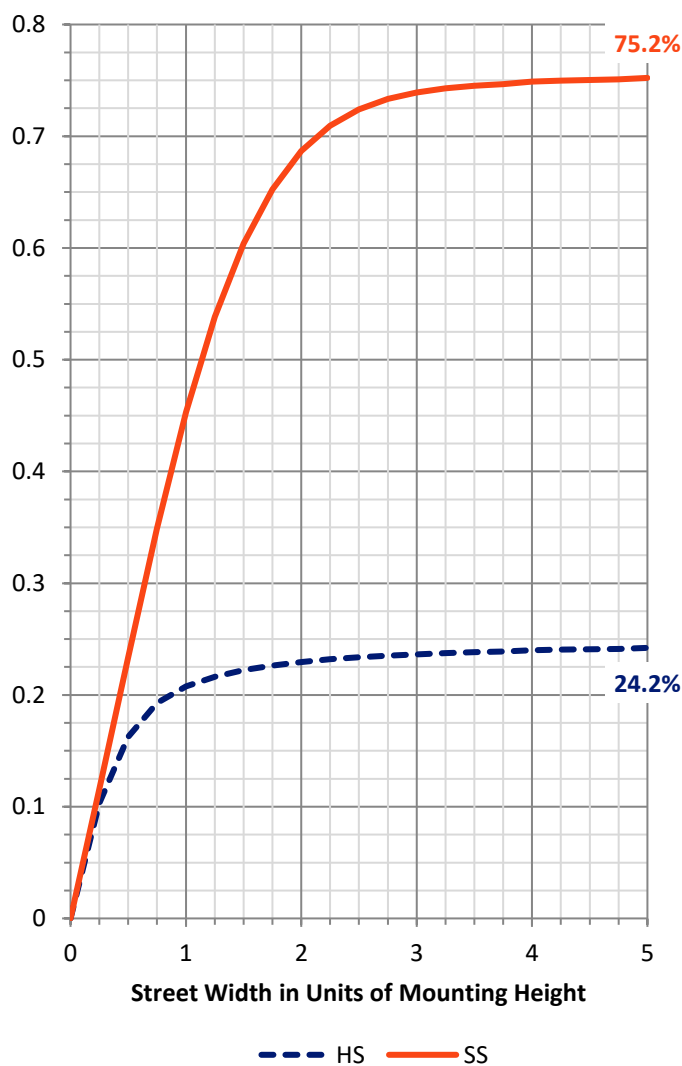
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3037.2	0.0	3037.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9350.8	0.0	9350.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	12388.0	0.0	12388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	1.2
10°-20°	492.6	4.0
20°-30°	891.6	7.2
30°-40°	1402.5	11.3
40°-50°	2088.9	16.9
50°-60°	2740.2	22.1
60°-70°	2996.6	24.2
70°-80°	1482.8	12.0
80°-90°	141.4	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°	12388.0	100.0
0°-180°	12388.0	100.0

Coefficient of Utilization



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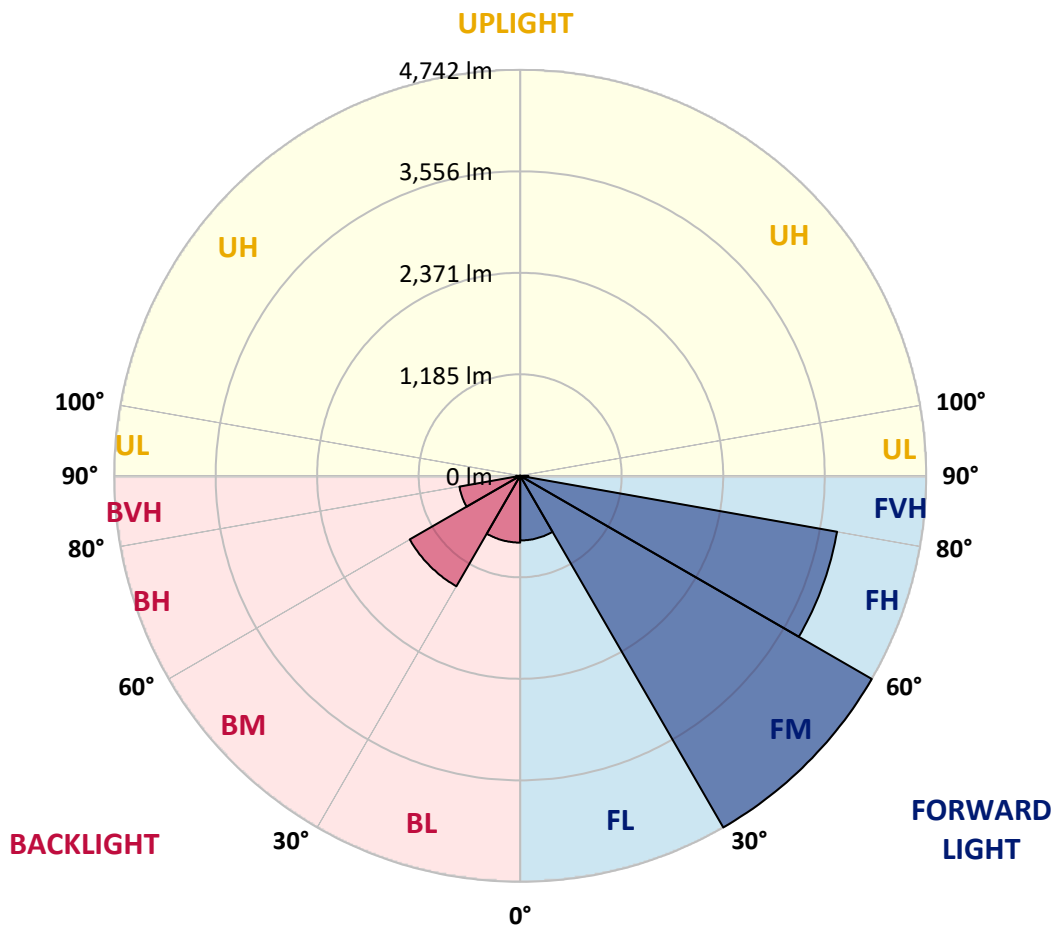
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	755.2	6.1			
FM	(30°-60°)	4742.0	38.3			
FH	(60°-80°)	3758.6	30.3			G2/5000
FVH	(80°-90°)	95.1	0.8			G1/100
BL	(0°-30°)	780.3	6.3	B2/1000		
BM	(30°-60°)	1489.7	12.0	B2/2500		
BH	(60°-80°)	720.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	46.3	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°	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0
2.5°	1381.8	1378.6	1386.6	1394.5	1412.1	1432.9	1461.6	1485.6	1488.8	1533.5	1568.7
5°	1300.3	1295.5	1303.5	1313.1	1321.1	1346.6	1377.0	1412.1	1426.5	1492.0	1567.1
7.5°	1308.3	1306.7	1309.9	1306.7	1306.7	1317.9	1338.6	1373.8	1389.7	1468.0	1575.0
10°	1354.6	1357.8	1359.4	1349.8	1340.2	1335.4	1341.8	1365.8	1377.0	1469.6	1610.2
12.5°	1431.3	1436.1	1437.7	1420.1	1407.3	1386.6	1375.4	1385.0	1392.9	1485.6	1659.7
15°	1535.1	1538.3	1527.1	1515.9	1484.0	1458.4	1431.3	1423.3	1426.5	1519.1	1715.6
17.5°	1656.5	1651.7	1651.7	1624.6	1583.0	1543.1	1498.4	1492.0	1492.0	1573.5	1795.5
20°	1789.1	1793.9	1779.5	1742.8	1701.2	1638.9	1594.2	1565.5	1568.7	1635.8	1892.9
22.5°	1980.8	1988.8	1950.4	1897.7	1833.8	1761.9	1698.0	1651.7	1653.3	1717.2	1993.6
25°	2186.9	2190.1	2166.1	2095.8	2009.5	1907.3	1822.6	1763.5	1761.9	1808.3	2123.0
27.5°	2397.7	2412.1	2364.2	2297.1	2217.2	2089.4	1977.6	1897.7	1884.9	1947.2	2284.3
30°	2615.0	2632.5	2586.2	2520.7	2421.7	2313.1	2180.5	2087.8	2079.8	2162.9	2500.0
32.5°	2833.8	2838.6	2801.9	2747.5	2658.1	2555.9	2448.8	2346.6	2338.6	2474.4	2779.5
35°	3012.7	3027.1	3001.5	2988.8	2923.3	2829.0	2725.2	2666.1	2686.8	2861.0	3142.1
37.5°	3228.4	3242.7	3214.0	3210.8	3190.0	3108.6	3036.7	3041.5	3062.2	3298.7	3523.9
40°	3539.9	3555.8	3482.4	3450.4	3450.4	3370.5	3346.6	3460.0	3487.2	3730.0	3921.6
42.5°	3803.4	3829.0	3785.9	3765.1	3702.8	3646.9	3675.6	3835.4	3881.7	4142.1	4268.3
45°	3931.2	3950.4	4001.5	4062.2	4001.5	3904.1	4012.7	4193.2	4258.7	4522.3	4614.9
47.5°	3999.9	4017.5	4076.6	4239.5	4281.1	4199.6	4352.9	4578.2	4622.9	4899.3	4945.6
50°	4009.5	4065.4	4142.1	4305.0	4495.1	4506.3	4694.8	4969.6	5022.3	5269.9	5236.3
52.5°	3931.2	3953.6	4111.7	4386.5	4597.4	4789.0	5067.0	5344.9	5383.3	5618.1	5493.5
55°	3803.4	3835.4	3993.5	4367.3	4696.4	5057.4	5445.6	5713.9	5757.1	5956.8	5731.5
57.5°	3688.4	3704.4	3873.7	4311.4	4795.4	5325.8	5782.6	6098.9	6127.7	6253.9	5907.2
60°	3560.6	3578.2	3747.5	4191.6	4868.9	5528.6	6134.1	6487.1	6512.7	6567.0	6111.7
62.5°	3230.0	3276.3	3488.7	3993.5	4849.7	5760.3	6509.5	6870.5	6902.4	6843.3	6273.0
65°	2623.0	2688.4	2948.8	3544.7	4670.8	5910.4	6816.2	7223.5	7277.8	7051.0	6316.2
67.5°	2036.7	2083.0	2292.3	2813.0	4043.1	5835.3	7014.2	7466.3	7482.3	7017.4	6076.6
68°	1931.3	1977.6	2177.3	2659.7	3868.9	5745.9	7009.4	7472.7	7507.8	6980.7	5983.9
70°	1477.6	1530.3	1720.4	2107.0	3118.1	5177.2	6717.1	7319.3	7314.6	6536.6	5408.8
72.5°	923.3	953.7	1084.6	1329.0	2062.3	3939.2	5701.2	6455.1	6467.9	5329.0	4148.5
75°	586.3	586.3	579.9	643.8	1057.5	2244.4	4237.9	4969.6	4979.1	3731.6	2615.0
77.5°	509.6	495.2	426.5	361.0	421.7	872.2	2507.9	3209.2	3156.5	2009.5	1241.2
80°	429.7	405.7	349.8	290.7	271.6	273.2	963.2	1629.4	1559.1	723.6	412.1
82.5°	309.9	289.1	263.6	228.4	209.3	162.9	201.3	471.2	460.1	209.3	134.2
85°	167.7	151.8	148.6	150.2	126.2	100.6	84.7	103.8	103.8	91.1	76.7
87.5°	59.1	43.1	51.1	57.5	49.5	41.5	33.5	39.9	41.5	39.9	36.7
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°	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0	1583.0
2.5°	1589.4	1605.4	1643.7	1677.3	1701.2	1722.0	1733.2	1738.0	1749.2	1750.8	1747.6
5°	1602.2	1643.7	1701.2	1750.8	1777.9	1789.1	1792.3	1793.9	1789.1	1792.3	1789.1
7.5°	1635.8	1688.5	1769.9	1813.1	1817.9	1800.3	1801.9	1795.5	1801.9	1808.3	1808.3
10°	1686.9	1754.0	1830.6	1846.6	1825.8	1816.3	1835.4	1873.8	1886.5	1904.1	1904.1
12.5°	1754.0	1833.8	1888.1	1873.8	1854.6	1886.5	1942.5	1980.8	1993.6	2000.0	1995.2
15°	1830.6	1916.9	1944.1	1896.1	1931.3	2000.0	2019.1	1996.8	1964.8	1950.4	1958.4
17.5°	1928.1	2000.0	1984.0	1952.0	2031.9	2041.5	1979.2	1907.3	1856.2	1837.0	1849.8
20°	2030.3	2092.6	2019.1	2033.5	2083.0	1980.8	1862.6	1769.9	1725.2	1717.2	1730.0
22.5°	2138.9	2178.9	2054.3	2127.8	2054.3	1846.6	1704.4	1656.5	1645.3	1658.1	1669.3
25°	2261.9	2257.1	2115.0	2156.5	1947.2	1682.1	1597.4	1594.2	1594.2	1602.2	1618.2
27.5°	2400.9	2325.8	2175.7	2118.2	1761.9	1546.3	1530.3	1531.9	1527.1	1528.7	1536.7
30°	2562.2	2418.5	2242.8	1992.0	1554.3	1444.1	1437.7	1432.9	1421.7	1418.5	1421.7
32.5°	2765.1	2515.9	2311.5	1784.3	1372.2	1338.6	1335.4	1309.9	1282.7	1279.5	1290.7
35°	3022.3	2693.2	2346.6	1523.9	1222.0	1220.4	1209.2	1169.3	1134.2	1134.2	1126.2
37.5°	3316.2	2921.7	2361.0	1269.9	1097.4	1105.4	1073.5	1022.3	995.2	979.2	984.0
40°	3616.5	3182.0	2359.4	1047.9	988.8	990.4	966.4	904.1	837.0	797.1	806.7
42.5°	3905.7	3418.5	2317.8	929.7	900.9	896.1	877.0	792.3	736.4	704.5	706.1
45°	4137.3	3662.9	2253.9	859.4	821.1	829.1	785.9	734.8	683.7	654.9	653.3
47.5°	4368.9	3848.2	2151.7	816.3	762.0	747.6	730.0	694.9	656.5	624.6	626.2
50°	4579.8	4006.3	2055.9	787.5	707.7	670.9	674.1	653.3	619.8	591.0	589.4
52.5°	4728.3	4110.1	2003.2	771.6	642.2	602.2	613.4	602.2	570.3	549.5	547.9
55°	4876.9	4190.0	2020.7	750.8	570.3	538.3	557.5	554.3	536.7	530.3	531.9
57.5°	4996.7	4250.7	2083.0	712.4	501.6	482.4	514.4	504.8	492.0	493.6	493.6
60°	5113.3	4329.0	2156.5	624.6	442.5	444.1	474.4	456.9	448.9	463.2	464.8
62.5°	5234.7	4413.7	2095.8	496.8	391.4	402.5	437.7	423.3	426.5	447.3	453.7
65°	5220.3	4405.7	1707.6	407.3	346.6	369.0	421.7	416.9	418.5	426.5	429.7
67.5°	4926.4	4124.5	1174.1	346.6	314.7	341.8	408.9	389.8	391.4	386.6	388.2
68°	4827.4	4025.5	1035.1	337.1	308.3	335.5	402.5	385.0	386.6	381.8	380.2
70°	4287.5	3447.2	654.9	297.1	285.9	317.9	370.6	364.2	362.6	359.4	359.4
72.5°	3268.3	2544.7	345.0	257.2	260.4	290.7	330.7	343.4	335.5	337.1	346.6
75°	2164.5	1530.3	239.6	220.4	228.4	249.2	293.9	319.5	311.5	316.3	311.5
77.5°	1145.3	824.3	191.7	186.9	186.9	201.3	242.8	282.7	282.7	279.5	274.8
80°	375.4	290.7	153.4	147.0	150.2	158.1	194.9	231.6	236.4	230.0	226.8
82.5°	126.2	134.2	115.0	107.0	110.2	116.6	147.0	177.3	178.9	166.1	162.9
85°	78.3	89.5	71.9	70.3	70.3	71.9	89.5	97.4	89.5	79.9	83.1
87.5°	36.7	44.7	33.5	28.8	24.0	20.8	16.0	6.4	6.4	3.2	3.2
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)