

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: P799225

Luminaire Tested: **ARCH2-100-722-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799225
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: ARCH2-100-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

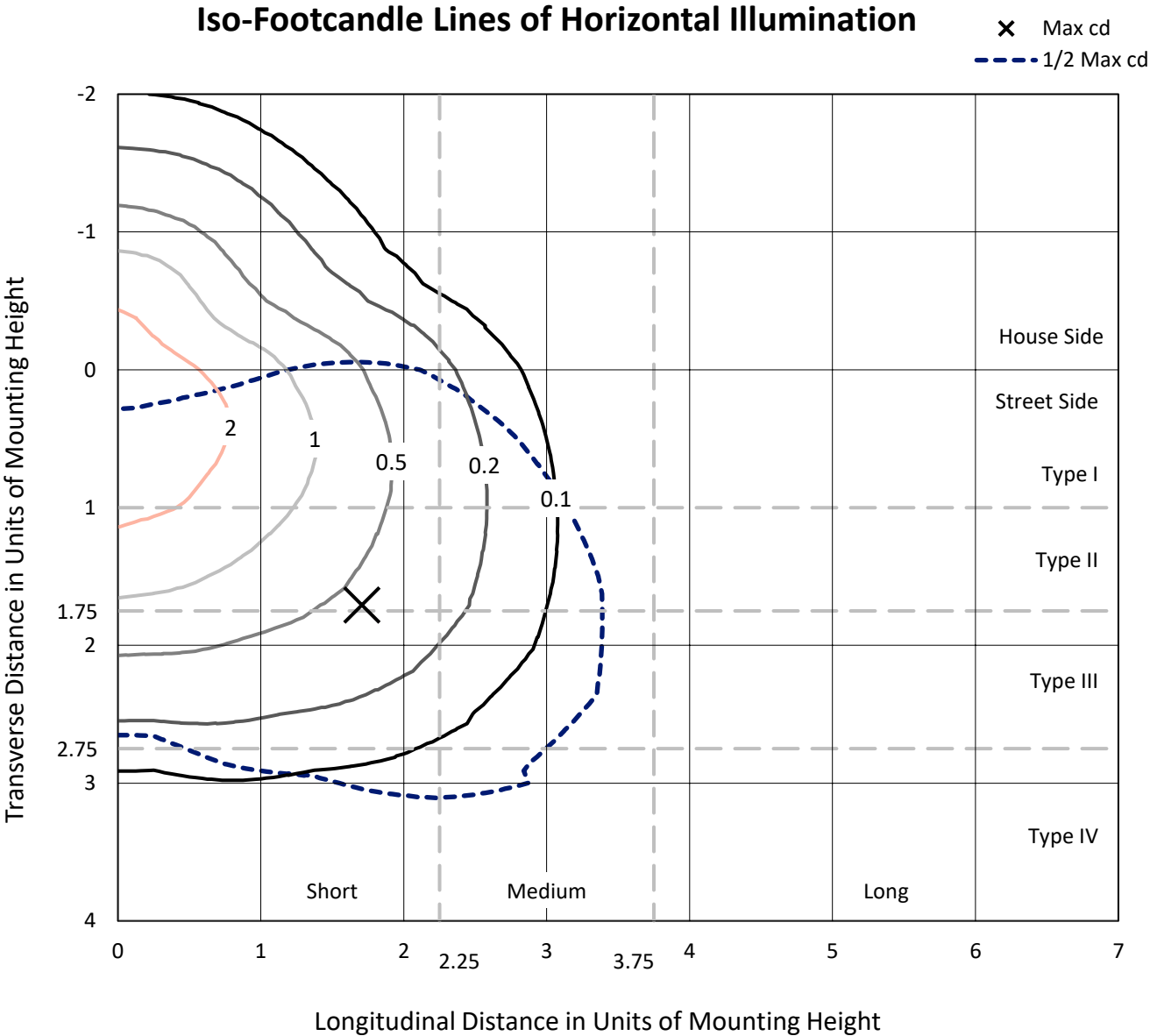
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10665 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 103.3
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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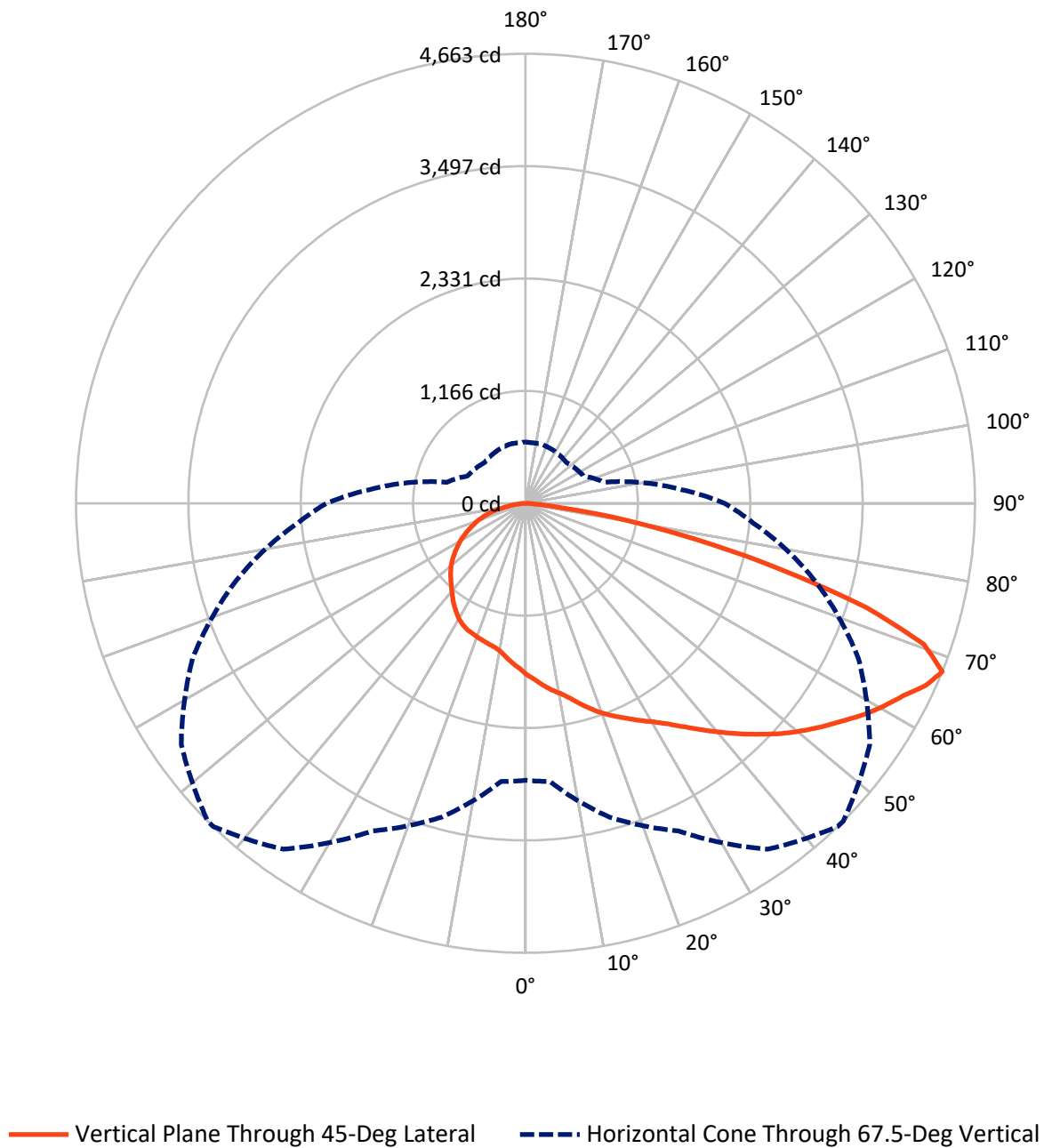


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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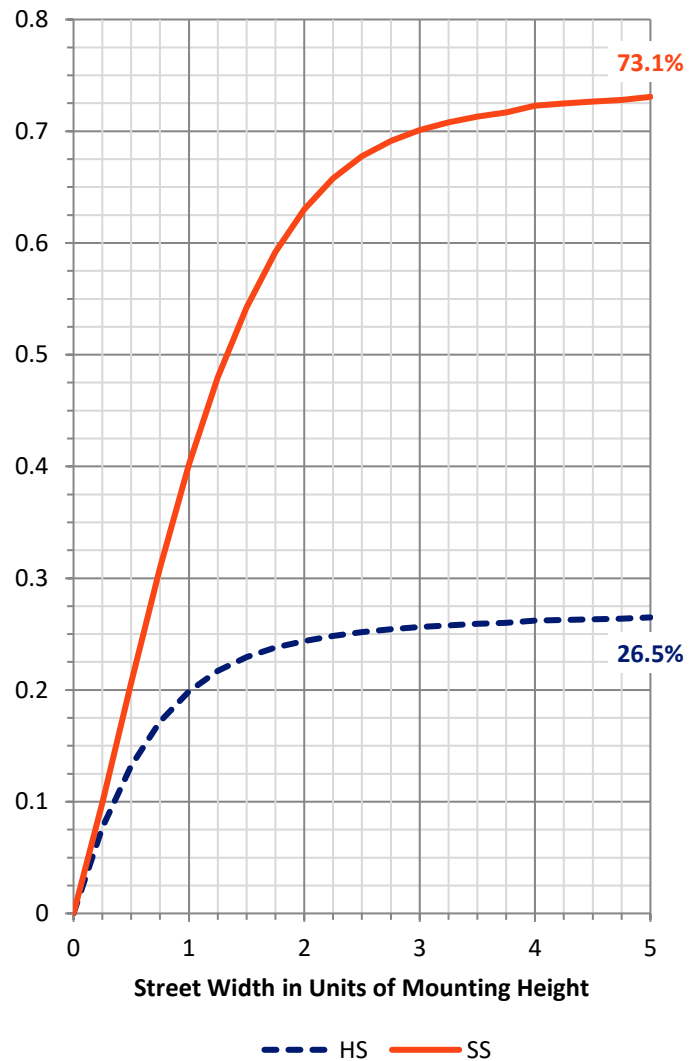
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2849.2	0.0	2849.2
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7815.8	0.0	7815.8
	% Fixture	73.3	0.0	73.3
Total	Lumens	10665.0	0.0	10665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	1.6
10°-20°	526.1	4.9
20°-30°	908.1	8.5
30°-40°	1339.1	12.6
40°-50°	1814.2	17.0
50°-60°	2217.4	20.8
60°-70°	2287.0	21.4
70°-80°	1252.6	11.7
80°-90°	150.1	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°	10665.0	100.0
0°-180°	10665.0	100.0

Coefficient of Utilization



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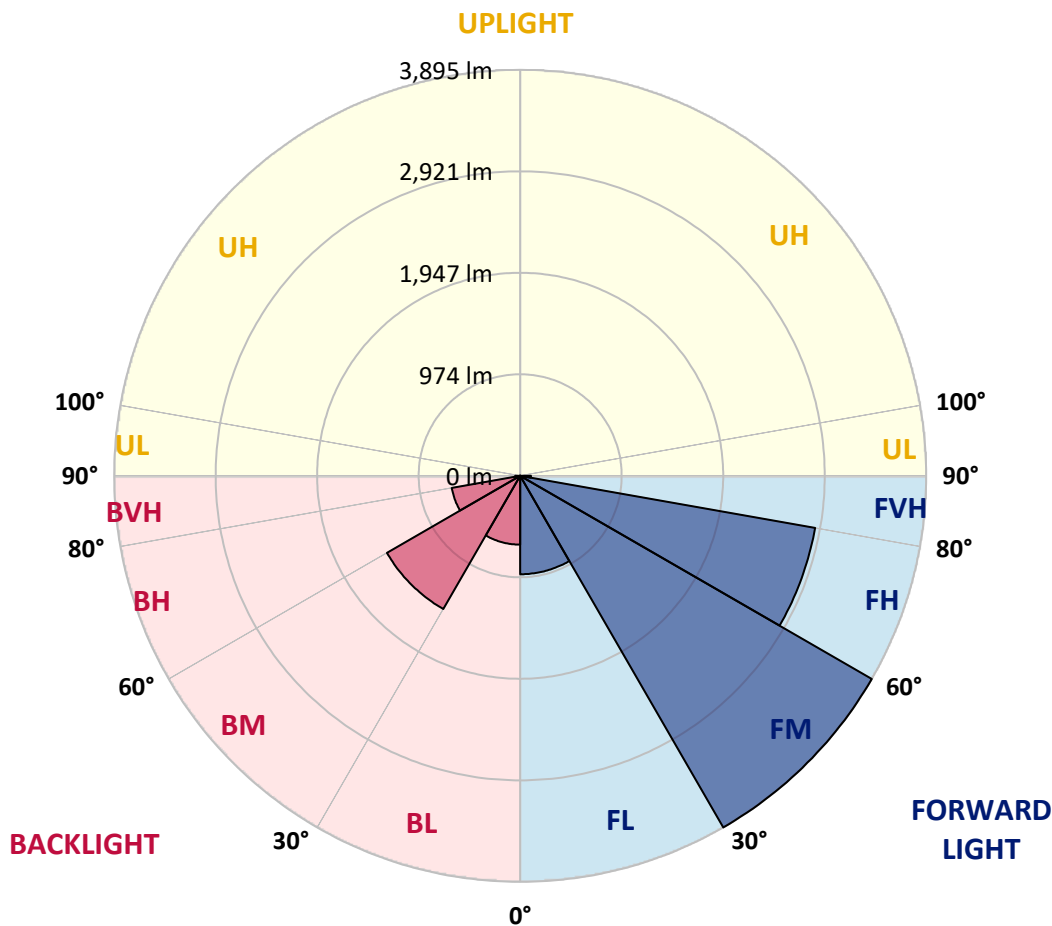
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	944.1	8.9			
FM	(30°-60°)	3895.0	36.5			
FH	(60°-80°)	2873.3	26.9			G2/5000
FVH	(80°-90°)	103.4	1.0			G2/225
BL	(0°-30°)	660.3	6.2	B2/1000		
BM	(30°-60°)	1475.8	13.8	B2/2500		
BH	(60°-80°)	666.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	46.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7
2.5°	1856.6	1855.0	1858.2	1846.9	1832.3	1830.7	1830.7	1820.9	1809.6	1786.8	1769.0
5°	1944.3	1941.0	1942.6	1926.4	1906.9	1897.2	1895.6	1874.5	1848.5	1812.8	1780.3
7.5°	2025.4	2022.2	2020.5	2002.7	1973.5	1957.2	1955.6	1924.8	1893.9	1838.8	1791.7
10°	2101.7	2098.4	2095.2	2070.8	2035.1	2010.8	2007.6	1968.6	1929.7	1861.5	1801.4
12.5°	2199.1	2192.6	2189.3	2160.1	2108.2	2082.2	2077.3	2025.4	1976.7	1893.9	1820.9
15°	2301.3	2296.4	2291.6	2264.0	2205.5	2171.5	2163.4	2098.4	2031.9	1936.1	1850.1
17.5°	2377.6	2372.7	2372.7	2348.4	2294.8	2255.9	2249.4	2171.5	2088.7	1975.1	1872.8
20°	2424.6	2419.8	2424.6	2410.0	2369.5	2337.0	2330.5	2244.5	2145.5	2010.8	1892.3
22.5°	2458.7	2453.9	2462.0	2455.5	2426.3	2406.8	2401.9	2317.5	2203.9	2048.1	1911.8
25°	2518.8	2518.8	2518.8	2507.4	2479.8	2473.3	2473.3	2400.3	2278.6	2096.8	1941.0
27.5°	2638.9	2632.4	2624.3	2591.8	2544.7	2543.1	2552.9	2484.7	2364.6	2160.1	1976.7
30°	2815.8	2812.5	2781.7	2713.5	2634.0	2625.9	2632.4	2575.6	2457.1	2226.6	2017.3
32.5°	3044.6	3033.2	2969.9	2867.7	2754.1	2716.8	2729.8	2669.7	2554.5	2294.8	2056.2
35°	3206.9	3210.1	3164.7	3072.2	2937.5	2838.5	2848.2	2775.2	2660.0	2371.1	2104.9
37.5°	3393.5	3404.9	3336.7	3266.9	3142.0	2973.2	2982.9	2883.9	2765.5	2466.8	2156.9
40°	3651.6	3628.8	3513.6	3430.9	3292.9	3114.4	3122.5	3005.6	2887.2	2557.7	2216.9
42.5°	3867.4	3826.8	3687.3	3581.8	3416.2	3263.7	3271.8	3137.1	3010.5	2658.3	2283.4
45°	4177.4	4065.4	3864.2	3812.2	3542.8	3409.8	3417.9	3276.7	3140.3	2765.5	2354.9
47.5°	4357.5	4179.0	4050.8	4023.2	3682.4	3560.7	3570.4	3424.4	3279.9	2887.2	2429.5
50°	4346.2	4231.0	4193.6	4125.5	3805.7	3701.9	3711.6	3576.9	3421.1	3007.3	2500.9
52.5°	4271.5	4292.6	4273.1	4159.5	3929.1	3838.2	3849.6	3727.8	3565.6	3119.3	2567.5
55°	4386.8	4401.4	4364.0	4214.7	4065.4	3974.5	3987.5	3886.9	3708.4	3218.2	2624.3
57.5°	4524.7	4472.8	4435.4	4312.1	4206.6	4122.2	4136.8	4049.2	3831.7	3297.8	2668.1
60°	4518.2	4409.5	4446.8	4318.6	4302.4	4258.5	4271.5	4182.3	3925.8	3356.2	2685.9
62.5°	4185.5	4127.1	4315.3	4271.5	4380.3	4380.3	4396.5	4263.4	3982.6	3380.5	2676.2
65°	3607.7	3611.0	3942.1	4123.8	4472.8	4547.4	4560.4	4313.7	3950.2	3309.1	2585.3
67.5°	2874.2	2895.3	3370.8	3748.9	4380.3	4661.0	4662.6	4359.2	3810.6	3107.9	2374.3
70°	2103.3	2119.5	2681.1	3140.3	3943.7	4409.5	4383.5	4231.0	3507.1	2757.3	2044.9
72.5°	1421.7	1436.3	2014.0	2411.7	3236.1	3755.4	3698.6	3739.2	2989.4	2265.6	1644.0
75°	955.9	973.8	1433.0	1725.2	2380.8	2851.5	2724.9	2832.0	2312.7	1715.4	1199.3
77.5°	602.1	613.5	910.5	1131.2	1626.2	1941.0	1814.4	1816.0	1332.4	923.4	644.3
80°	383.0	386.3	551.8	652.4	941.3	1166.9	1032.2	839.0	600.5	490.1	384.6
82.5°	222.3	217.5	329.5	368.4	447.9	443.1	366.8	347.3	262.9	245.1	196.4
85°	89.3	82.8	144.4	134.7	136.3	144.4	107.1	107.1	86.0	66.5	48.7
87.5°	17.9	17.9	19.5	17.9	17.9	19.5	14.6	14.6	13.0	13.0	13.0
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°	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7	1778.7
2.5°	1765.7	1762.5	1754.4	1733.3	1721.9	1715.4	1705.7	1702.4	1700.8	1702.4	1707.3
5°	1770.6	1759.2	1736.5	1702.4	1679.7	1665.1	1648.9	1642.4	1637.5	1637.5	1642.4
7.5°	1773.9	1756.0	1717.0	1666.7	1634.3	1611.6	1592.1	1584.0	1582.3	1587.2	1588.8
10°	1775.5	1749.5	1694.3	1631.0	1588.8	1559.6	1540.2	1535.3	1540.2	1549.9	1551.5
12.5°	1786.8	1751.1	1681.3	1606.7	1556.4	1527.2	1512.6	1512.6	1525.5	1543.4	1545.0
15°	1806.3	1762.5	1674.9	1587.2	1535.3	1509.3	1504.4	1512.6	1532.0	1559.6	1562.9
17.5°	1820.9	1769.0	1660.2	1561.2	1507.7	1491.5	1499.6	1519.1	1546.6	1584.0	1587.2
20°	1830.7	1769.0	1639.1	1530.4	1480.1	1476.9	1499.6	1530.4	1559.6	1603.4	1608.3
22.5°	1840.4	1765.7	1614.8	1493.1	1449.3	1459.0	1501.2	1540.2	1569.4	1616.4	1624.5
25°	1858.2	1770.6	1590.5	1455.8	1416.8	1444.4	1499.6	1546.6	1577.5	1626.2	1639.1
27.5°	1882.6	1782.0	1572.6	1421.7	1384.4	1421.7	1488.2	1545.0	1577.5	1624.5	1639.1
30°	1908.6	1794.9	1551.5	1384.4	1347.0	1389.2	1463.9	1527.2	1564.5	1608.3	1626.2
32.5°	1936.1	1809.6	1533.7	1343.8	1301.6	1345.4	1428.2	1499.6	1540.2	1580.7	1600.2
35°	1973.5	1835.5	1523.9	1311.3	1261.0	1300.0	1382.7	1463.9	1507.7	1545.0	1567.7
37.5°	2018.9	1868.0	1519.1	1278.9	1217.2	1249.6	1334.0	1420.1	1467.1	1498.0	1519.1
40°	2070.8	1908.6	1517.4	1248.0	1173.4	1197.7	1283.7	1369.7	1415.2	1439.5	1457.4
42.5°	2129.3	1954.0	1514.2	1217.2	1129.6	1149.0	1235.0	1319.4	1358.4	1379.5	1395.7
45°	2190.9	1999.4	1507.7	1179.9	1082.5	1105.2	1184.7	1259.4	1300.0	1317.8	1335.7
47.5°	2252.6	2044.9	1494.7	1137.7	1040.3	1061.4	1131.2	1196.1	1228.6	1244.8	1262.6
50°	2312.7	2085.5	1463.9	1089.0	996.5	1015.9	1069.5	1113.3	1137.7	1150.6	1168.5
52.5°	2366.2	2113.0	1420.1	1032.2	952.7	962.4	998.1	1035.4	1054.9	1056.5	1072.7
55°	2411.7	2127.6	1356.8	973.8	905.6	907.2	926.7	955.9	964.0	957.5	968.9
57.5°	2437.6	2119.5	1287.0	913.7	856.9	850.4	865.0	879.6	881.2	865.0	876.4
60°	2444.1	2082.2	1196.1	853.7	808.2	790.4	795.2	792.0	788.7	782.2	792.0
62.5°	2411.7	2002.7	1095.5	795.2	756.3	728.7	727.1	725.4	730.3	731.9	733.6
65°	2293.2	1853.4	975.4	735.2	701.1	663.8	662.2	681.6	688.1	678.4	681.6
67.5°	2064.4	1624.5	843.9	665.4	631.3	598.9	611.8	623.2	634.6	631.3	634.6
70°	1739.8	1334.0	723.8	587.5	555.0	537.2	551.8	561.5	563.2	559.9	563.2
72.5°	1368.1	1041.9	611.8	508.0	478.8	470.6	488.5	496.6	511.2	517.7	519.3
75°	988.4	769.3	501.5	422.0	397.6	397.6	413.8	428.5	441.4	433.3	428.5
77.5°	551.8	459.3	360.3	290.5	295.4	318.1	324.6	340.8	353.8	352.2	348.9
80°	334.3	287.3	243.4	188.3	186.6	204.5	246.7	274.3	280.8	266.2	264.5
82.5°	173.7	150.9	129.8	105.5	116.9	136.3	142.8	172.0	189.9	183.4	191.5
85°	43.8	42.2	47.1	48.7	60.0	66.5	73.0	86.0	56.8	27.6	27.6
87.5°	13.0	13.0	16.2	16.2	21.1	26.0	24.3	24.3	13.0	1.6	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)