

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: P800265

Luminaire Tested: **ARCH2-90-727-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800265
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: ARCH2-90-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11040 lumens
Efficiency: N/A
Efficacy: 117.8 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): 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

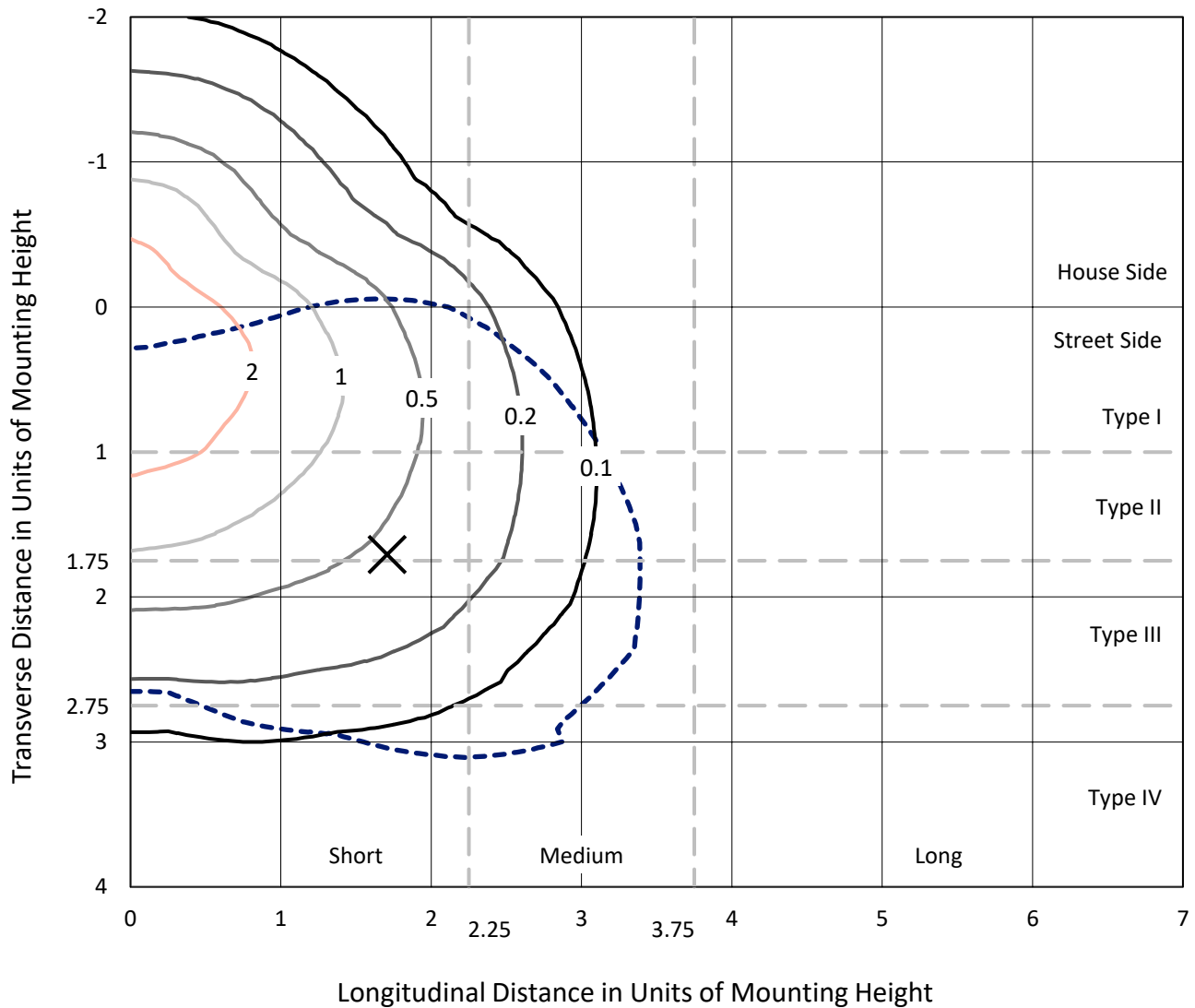


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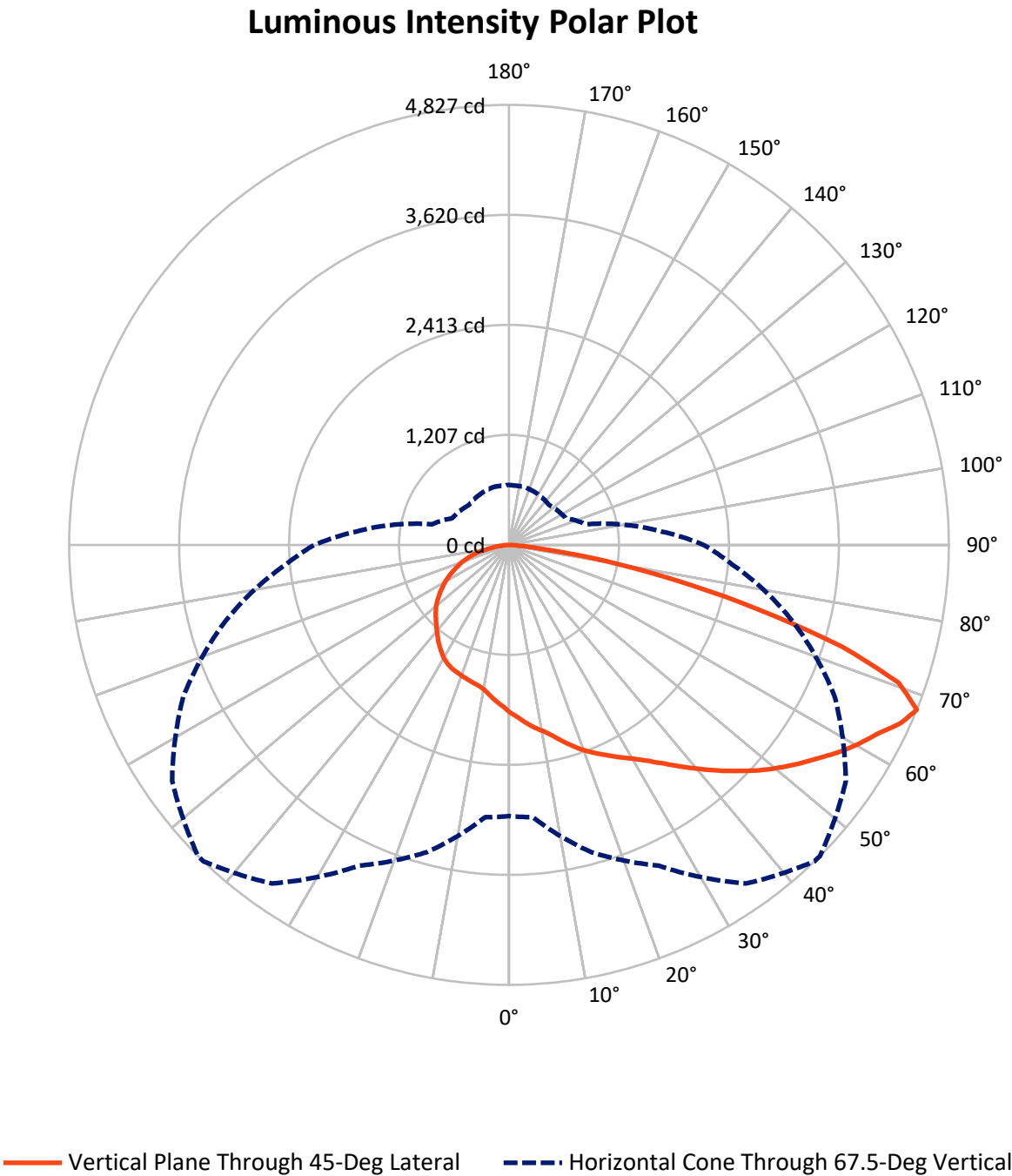
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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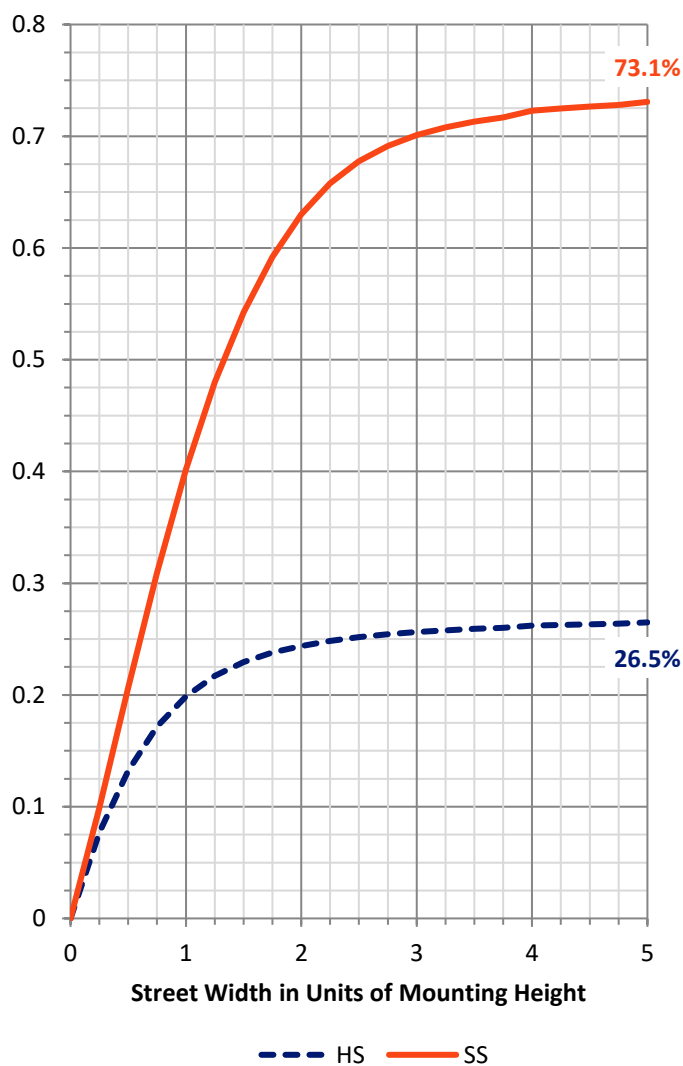
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2949.3	0.0	2949.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8090.7	0.0	8090.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	11040.0	0.0	11040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.6
10°-20°	544.6	4.9
20°-30°	940.0	8.5
30°-40°	1386.2	12.6
40°-50°	1878.0	17.0
50°-60°	2295.4	20.8
60°-70°	2367.4	21.4
70°-80°	1296.7	11.7
80°-90°	155.4	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°	11040.0	100.0
0°-180°	11040.0	100.0

Coefficient of Utilization



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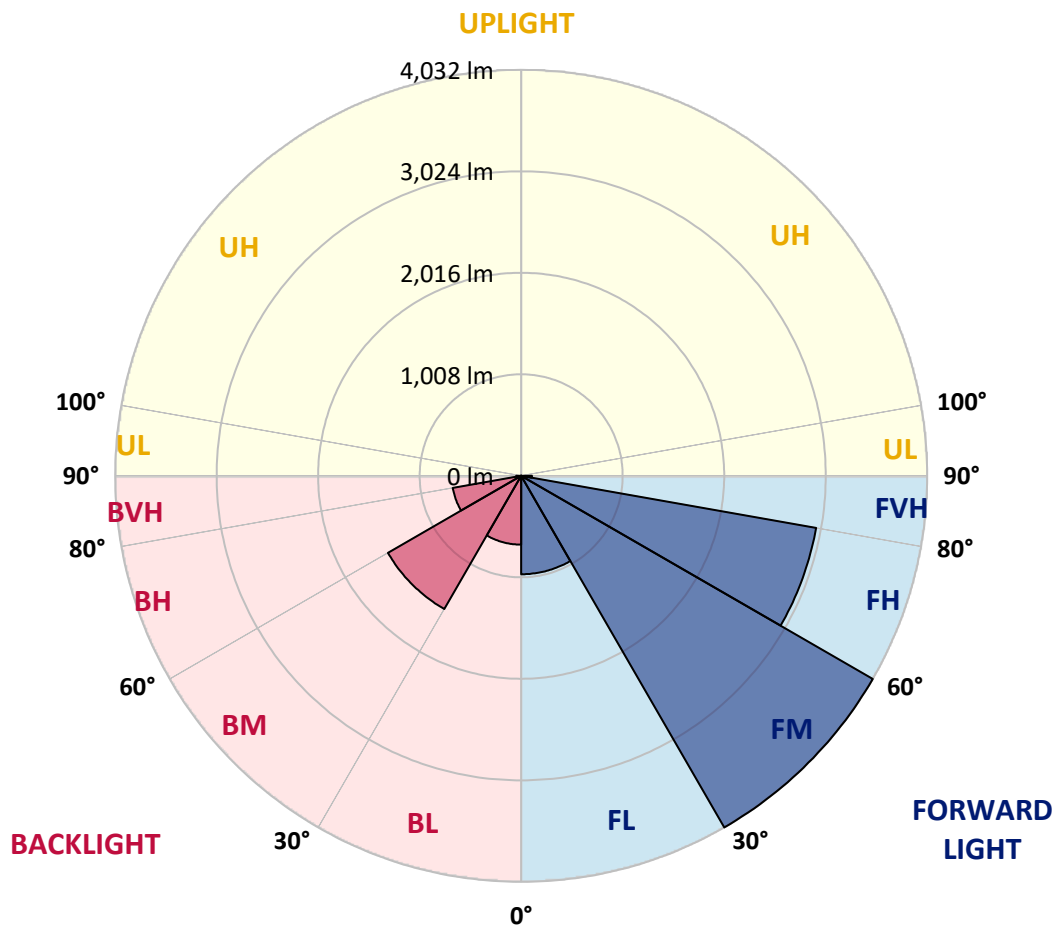
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	977.3	8.9			
FM	(30°-60°)	4031.9	36.5			
FH	(60°-80°)	2974.3	26.9			G2/5000
FVH	(80°-90°)	107.1	1.0			G2/225
BL	(0°-30°)	683.6	6.2	B2/1000		
BM	(30°-60°)	1527.7	13.8	B2/2500		
BH	(60°-80°)	689.7	6.2	B2/1000		G2/1000
BVH	(80°-90°)	48.4	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°	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3
2.5°	1921.9	1920.2	1923.6	1911.8	1896.7	1895.0	1895.0	1884.9	1873.2	1849.7	1831.2
5°	2012.6	2009.3	2010.9	1994.1	1974.0	1963.9	1962.2	1940.4	1913.5	1876.5	1842.9
7.5°	2096.6	2093.3	2091.6	2073.1	2042.9	2026.1	2024.4	1992.5	1960.5	1903.4	1854.7
10°	2175.6	2172.2	2168.9	2143.7	2106.7	2081.5	2078.1	2037.8	1997.5	1926.9	1864.8
12.5°	2276.4	2269.7	2266.3	2236.1	2182.3	2155.4	2150.4	2096.6	2046.2	1960.5	1884.9
15°	2382.2	2377.2	2372.1	2343.6	2283.1	2247.8	2239.4	2172.2	2103.3	2004.2	1915.2
17.5°	2461.2	2456.1	2456.1	2430.9	2375.5	2335.2	2328.5	2247.8	2162.1	2044.5	1938.7
20°	2509.9	2504.9	2509.9	2494.8	2452.8	2419.2	2412.5	2323.4	2220.9	2081.5	1958.9
22.5°	2545.2	2540.1	2548.5	2541.8	2511.6	2491.4	2486.4	2399.0	2281.4	2120.1	1979.0
25°	2607.3	2607.3	2607.3	2595.6	2567.0	2560.3	2560.3	2484.7	2358.7	2170.5	2009.3
27.5°	2731.7	2724.9	2716.5	2682.9	2634.2	2632.5	2642.6	2572.1	2447.7	2236.1	2046.2
30°	2914.8	2911.4	2879.5	2808.9	2726.6	2718.2	2724.9	2666.1	2543.5	2304.9	2088.2
32.5°	3151.7	3139.9	3074.4	2968.5	2850.9	2812.3	2825.7	2763.6	2644.3	2375.5	2128.5
35°	3319.6	3323.0	3276.0	3180.2	3040.8	2938.3	2948.4	2872.8	2753.5	2454.5	2178.9
37.5°	3512.8	3524.6	3454.0	3381.8	3252.4	3077.7	3087.8	2985.3	2862.7	2553.6	2232.7
40°	3780.0	3756.4	3637.2	3551.5	3408.7	3223.9	3232.3	3111.3	2988.7	2647.7	2294.9
42.5°	4003.4	3961.4	3816.9	3707.7	3536.4	3378.4	3386.8	3247.4	3116.4	2751.8	2363.7
45°	4324.3	4208.4	4000.0	3946.3	3667.4	3529.6	3538.0	3391.9	3250.8	2862.7	2437.7
47.5°	4510.8	4326.0	4193.2	4164.7	3811.9	3685.9	3696.0	3544.8	3395.2	2988.7	2514.9
50°	4499.0	4379.7	4341.1	4270.5	3939.6	3832.0	3842.1	3702.7	3541.4	3113.0	2588.9
52.5°	4421.7	4443.6	4423.4	4305.8	4067.2	3973.2	3984.9	3858.9	3690.9	3228.9	2657.7
55°	4541.0	4556.1	4517.5	4362.9	4208.4	4114.3	4127.7	4023.6	3838.8	3331.4	2716.5
57.5°	4683.8	4630.0	4591.4	4463.7	4354.5	4267.2	4282.3	4191.6	3966.4	3413.7	2761.9
60°	4677.1	4564.5	4603.2	4470.4	4453.6	4408.3	4421.7	4329.3	4063.9	3474.2	2780.4
62.5°	4332.7	4272.2	4467.1	4421.7	4534.3	4534.3	4551.1	4413.3	4122.7	3499.4	2770.3
65°	3734.6	3738.0	4080.7	4268.8	4630.0	4707.3	4720.8	4465.4	4089.1	3425.5	2676.2
67.5°	2975.3	2997.1	3489.3	3880.8	4534.3	4824.9	4826.6	4512.4	3944.6	3217.2	2457.8
70°	2177.3	2194.1	2775.3	3250.8	4082.4	4564.5	4537.6	4379.7	3630.4	2854.3	2116.8
72.5°	1471.7	1486.8	2084.9	2496.5	3349.9	3887.5	3828.7	3870.7	3094.5	2345.3	1701.8
75°	989.5	1008.0	1483.4	1785.8	2464.5	2951.7	2820.7	2931.6	2394.0	1775.7	1241.5
77.5°	623.3	635.0	942.5	1170.9	1683.3	2009.3	1878.2	1879.9	1379.3	955.9	667.0
80°	396.5	399.8	571.2	675.4	974.4	1207.9	1068.5	868.6	621.6	507.4	398.2
82.5°	230.2	225.1	341.0	381.4	463.7	458.6	379.7	359.5	272.2	253.7	203.3
85°	92.4	85.7	149.5	139.4	141.1	149.5	110.9	110.9	89.0	68.9	50.4
87.5°	18.5	18.5	20.2	18.5	18.5	20.2	15.1	15.1	13.4	13.4	13.4
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°	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3	1841.3
2.5°	1827.8	1824.5	1816.1	1794.2	1782.5	1775.7	1765.7	1762.3	1760.6	1762.3	1767.3
5°	1832.9	1821.1	1797.6	1762.3	1738.8	1723.7	1706.9	1700.1	1695.1	1695.1	1700.1
7.5°	1836.2	1817.7	1777.4	1725.3	1691.7	1668.2	1648.1	1639.7	1638.0	1643.0	1644.7
10°	1837.9	1811.0	1753.9	1688.4	1644.7	1614.5	1594.3	1589.3	1594.3	1604.4	1606.1
12.5°	1849.7	1812.7	1740.5	1663.2	1611.1	1580.9	1565.7	1565.7	1579.2	1597.7	1599.3
15°	1869.8	1824.5	1733.7	1643.0	1589.3	1562.4	1557.3	1565.7	1585.9	1614.5	1617.8
17.5°	1884.9	1831.2	1718.6	1616.1	1560.7	1543.9	1552.3	1572.5	1601.0	1639.7	1643.0
20°	1895.0	1831.2	1696.8	1584.2	1532.1	1528.8	1552.3	1584.2	1614.5	1659.8	1664.9
22.5°	1905.1	1827.8	1671.6	1545.6	1500.2	1510.3	1554.0	1594.3	1624.5	1673.3	1681.7
25°	1923.6	1832.9	1646.4	1506.9	1466.6	1495.2	1552.3	1601.0	1632.9	1683.3	1696.8
27.5°	1948.8	1844.6	1627.9	1471.7	1433.0	1471.7	1540.5	1599.3	1632.9	1681.7	1696.8
30°	1975.7	1858.1	1606.1	1433.0	1394.4	1438.1	1515.3	1580.9	1619.5	1664.9	1683.3
32.5°	2004.2	1873.2	1587.6	1391.0	1347.3	1392.7	1478.4	1552.3	1594.3	1636.3	1656.5
35°	2042.9	1900.1	1577.5	1357.4	1305.3	1345.7	1431.3	1515.3	1560.7	1599.3	1622.9
37.5°	2089.9	1933.7	1572.5	1323.8	1260.0	1293.6	1380.9	1470.0	1518.7	1550.6	1572.5
40°	2143.7	1975.7	1570.8	1291.9	1214.6	1239.8	1328.9	1417.9	1464.9	1490.1	1508.6
42.5°	2204.1	2022.7	1567.4	1260.0	1169.3	1189.4	1278.5	1365.8	1406.1	1428.0	1444.8
45°	2268.0	2069.7	1560.7	1221.3	1120.5	1144.1	1226.4	1303.7	1345.7	1364.1	1382.6
47.5°	2331.8	2116.8	1547.3	1177.7	1076.9	1098.7	1170.9	1238.1	1271.7	1288.5	1307.0
50°	2394.0	2158.8	1515.3	1127.3	1031.5	1051.7	1107.1	1152.5	1177.7	1191.1	1209.6
52.5°	2449.4	2187.3	1470.0	1068.5	986.2	996.2	1033.2	1071.8	1092.0	1093.7	1110.5
55°	2496.5	2202.5	1404.5	1008.0	937.4	939.1	959.3	989.5	997.9	991.2	1003.0
57.5°	2523.3	2194.1	1332.2	945.8	887.0	880.3	895.4	910.6	912.2	895.4	907.2
60°	2530.1	2155.4	1238.1	883.7	836.6	818.2	823.2	819.8	816.5	809.8	819.8
62.5°	2496.5	2073.1	1134.0	823.2	782.9	754.3	752.6	751.0	756.0	757.7	759.4
65°	2373.8	1918.5	1009.7	761.0	725.8	687.1	685.4	705.6	712.3	702.2	705.6
67.5°	2136.9	1681.7	873.6	688.8	653.5	619.9	633.4	645.1	656.9	653.5	656.9
70°	1800.9	1380.9	749.3	608.2	574.6	556.1	571.2	581.3	583.0	579.6	583.0
72.5°	1416.2	1078.5	633.4	525.8	495.6	487.2	505.7	514.1	529.2	535.9	537.6
75°	1023.1	796.3	519.1	436.8	411.6	411.6	428.4	443.5	457.0	448.6	443.5
77.5°	571.2	475.4	373.0	300.7	305.8	329.3	336.0	352.8	366.2	364.6	361.2
80°	346.1	297.4	252.0	194.9	193.2	211.7	255.4	283.9	290.6	275.5	273.8
82.5°	179.8	156.2	134.4	109.2	121.0	141.1	147.8	178.1	196.6	189.8	198.2
85°	45.4	43.7	48.7	50.4	62.2	68.9	75.6	89.0	58.8	28.6	28.6
87.5°	13.4	13.4	16.8	16.8	21.8	26.9	25.2	25.2	13.4	1.7	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)