

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: P799257

Luminaire Tested: **ARCH2-100-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799257
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: ARCH2-100-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12188 lumens
Efficiency: N/A
Efficacy: 118.0 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

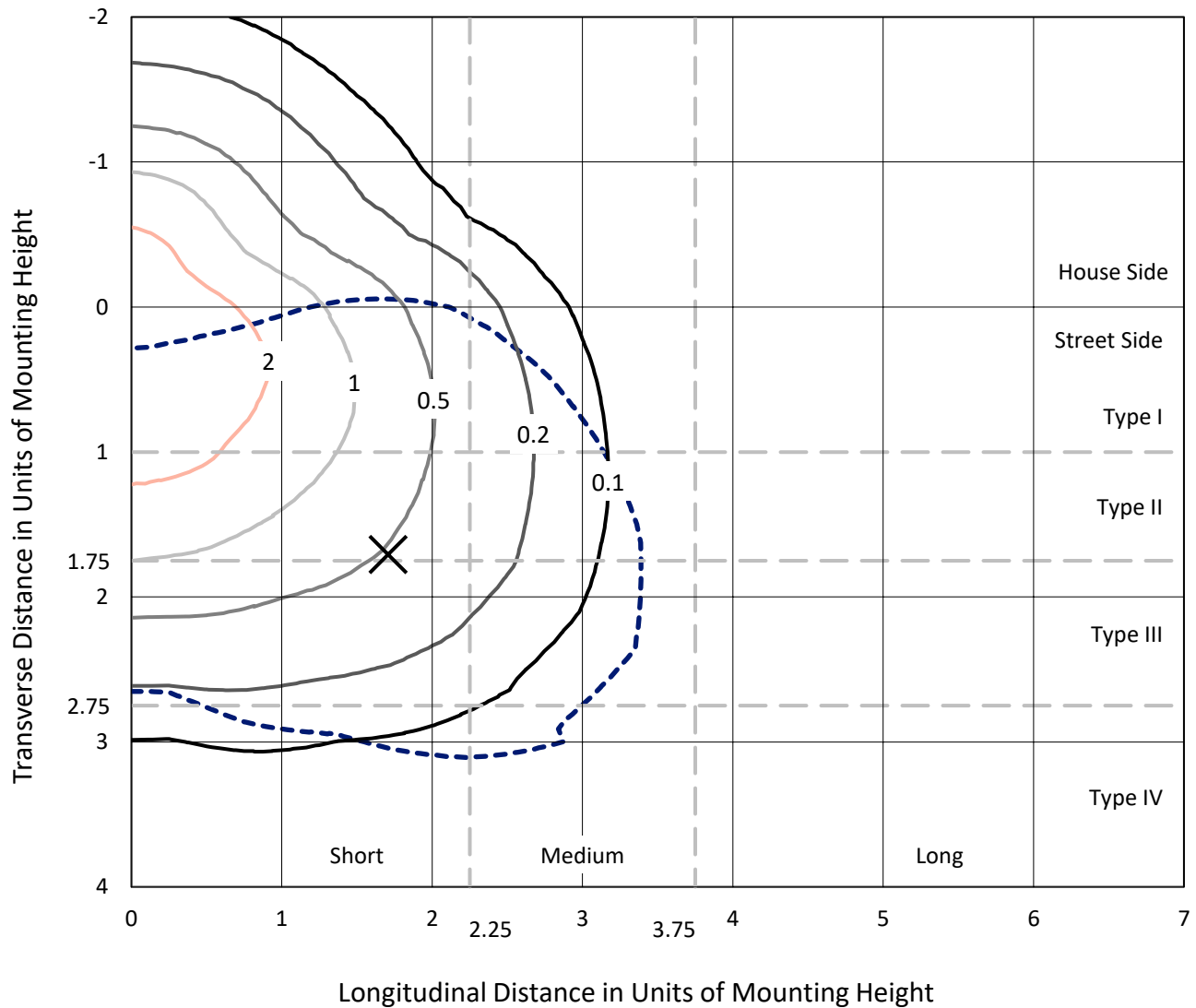


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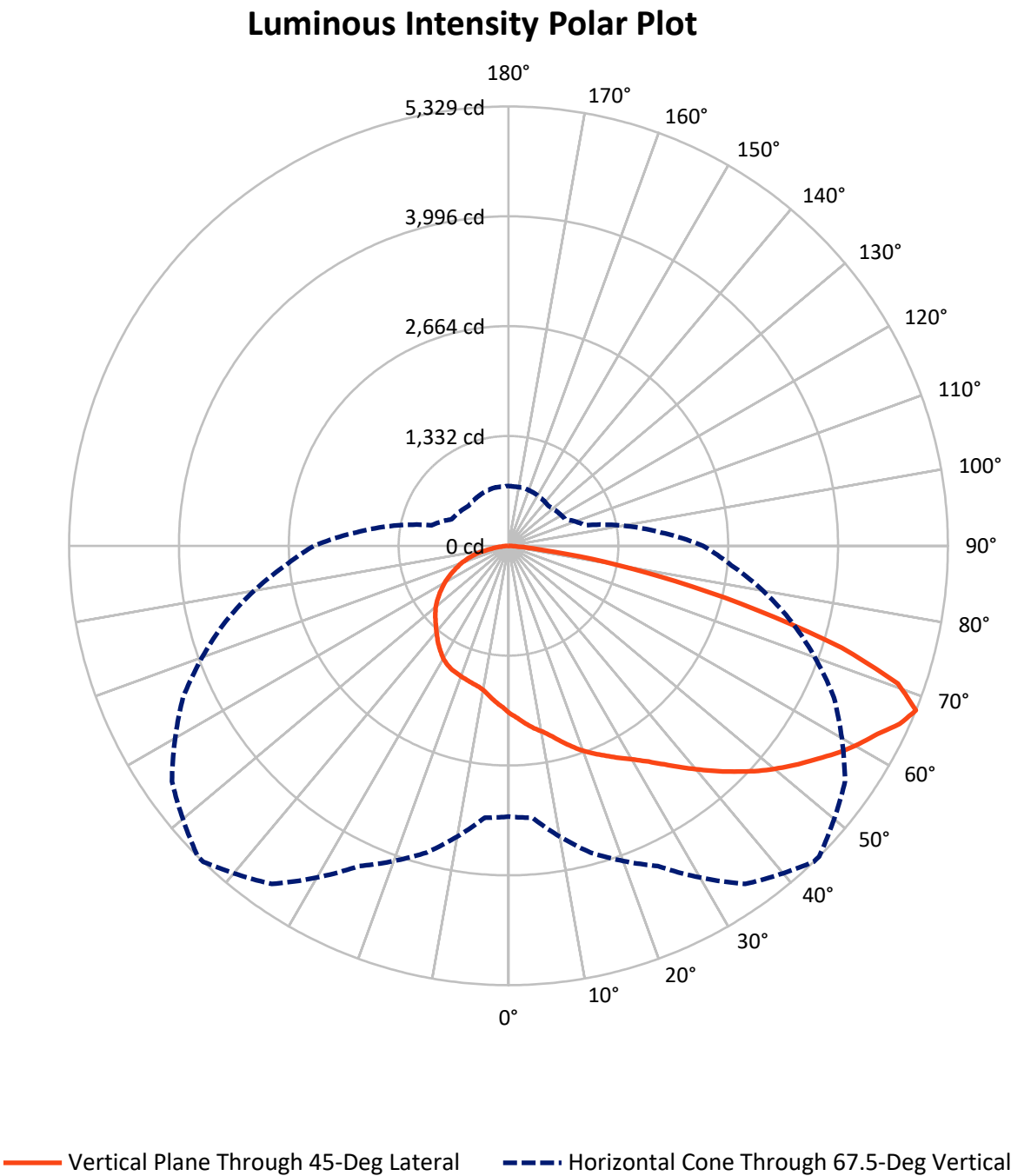
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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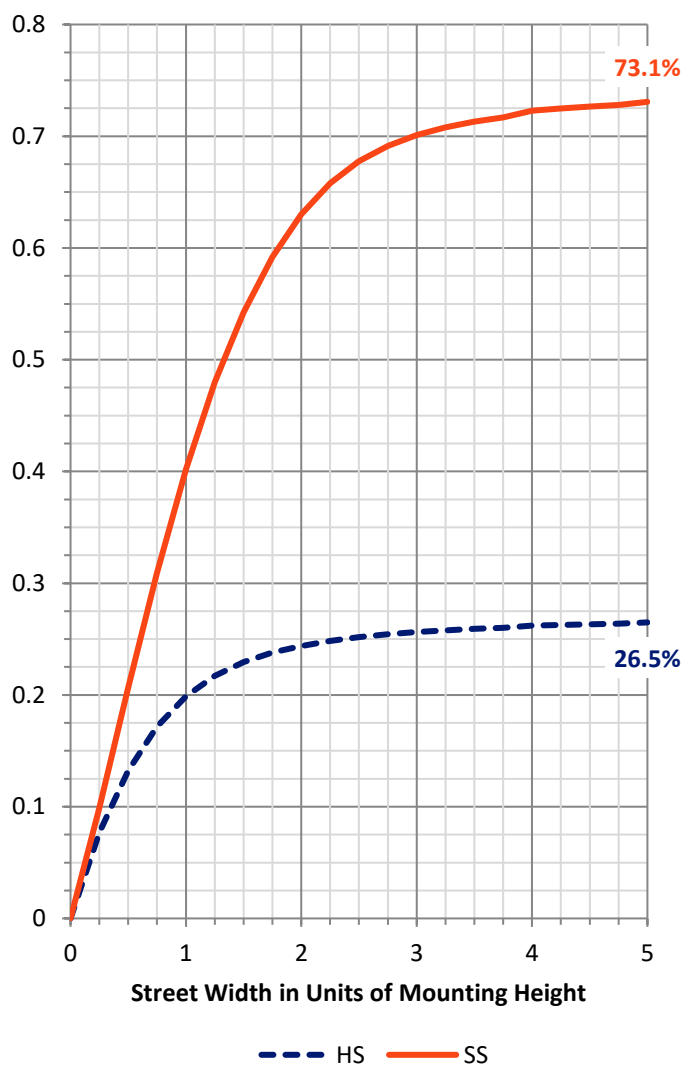
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3256.0	0.0	3256.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8932.0	0.0	8932.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	12188.0	0.0	12188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	1.6
10°-20°	601.2	4.9
20°-30°	1037.8	8.5
30°-40°	1530.3	12.6
40°-50°	2073.3	17.0
50°-60°	2534.1	20.8
60°-70°	2613.6	21.4
70°-80°	1431.5	11.7
80°-90°	171.6	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°	12188.0	100.0
0°-180°	12188.0	100.0

Coefficient of Utilization



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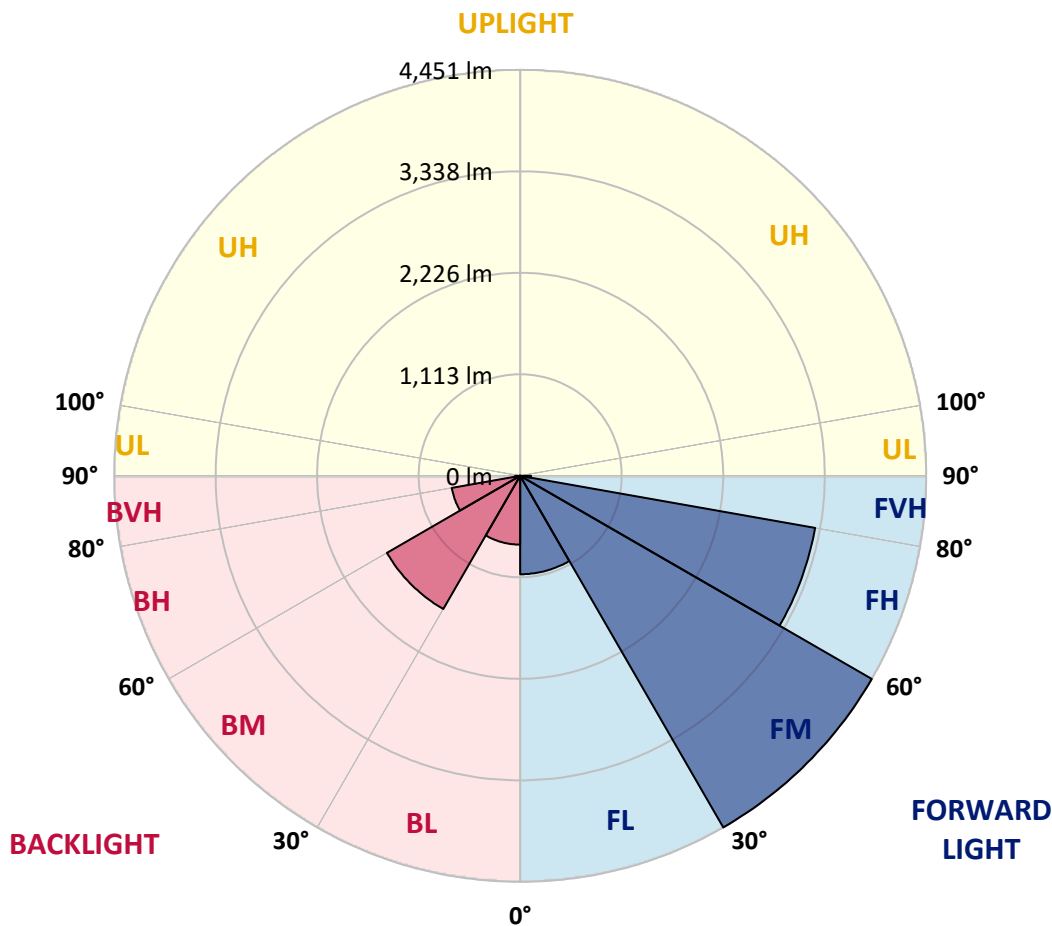
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.0	8.9			
FM	(30°-60°)	4451.2	36.5			
FH	(60°-80°)	3283.6	26.9			G2/5000
FVH	(80°-90°)	118.2	1.0			G2/225
BL	(0°-30°)	754.6	6.2	B2/1000		
BM	(30°-60°)	1686.6	13.8	B2/2500		
BH	(60°-80°)	761.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	53.4	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°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7
2.5°	2121.8	2119.9	2123.6	2110.6	2093.9	2092.1	2092.1	2080.9	2068.0	2042.0	2021.6
5°	2221.9	2218.2	2220.0	2201.5	2179.2	2168.1	2166.3	2142.2	2112.5	2071.7	2034.6
7.5°	2314.6	2310.9	2309.1	2288.7	2255.3	2236.7	2234.9	2199.6	2164.4	2101.4	2047.6
10°	2401.8	2398.1	2394.4	2366.6	2325.8	2297.9	2294.2	2249.7	2205.2	2127.3	2058.7
12.5°	2513.1	2505.7	2502.0	2468.6	2409.2	2379.6	2374.0	2314.6	2259.0	2164.4	2080.9
15°	2629.9	2624.4	2618.8	2587.3	2520.5	2481.6	2472.3	2398.1	2322.1	2212.6	2114.3
17.5°	2717.1	2711.5	2711.5	2683.7	2622.5	2578.0	2570.6	2481.6	2387.0	2257.1	2140.3
20°	2770.9	2765.3	2770.9	2754.2	2707.8	2670.7	2663.3	2565.0	2451.9	2297.9	2162.6
22.5°	2809.8	2804.3	2813.5	2806.1	2772.7	2750.5	2744.9	2648.5	2518.7	2340.6	2184.8
25°	2878.5	2878.5	2878.5	2865.5	2833.9	2826.5	2826.5	2743.1	2604.0	2396.2	2218.2
27.5°	3015.7	3008.3	2999.0	2961.9	2908.1	2906.3	2917.4	2839.5	2702.3	2468.6	2259.0
30°	3217.9	3214.2	3178.9	3101.0	3010.1	3000.9	3008.3	2943.4	2808.0	2544.6	2305.4
32.5°	3479.4	3466.4	3394.1	3277.2	3147.4	3104.7	3119.6	3050.9	2919.3	2622.5	2349.9
35°	3664.8	3668.6	3616.6	3510.9	3357.0	3243.8	3255.0	3171.5	3039.8	2709.7	2405.5
37.5°	3878.1	3891.1	3813.2	3733.5	3590.7	3397.8	3408.9	3295.8	3160.4	2819.1	2464.9
40°	4173.0	4147.1	4015.4	3920.8	3763.1	3559.1	3568.4	3434.9	3299.5	2923.0	2533.5
42.5°	4419.7	4373.3	4213.8	4093.3	3904.1	3729.8	3739.0	3585.1	3440.4	3038.0	2609.5
45°	4773.9	4646.0	4416.0	4356.6	4048.8	3896.7	3906.0	3744.6	3588.8	3160.4	2691.1
47.5°	4979.8	4775.8	4629.3	4597.7	4208.3	4069.2	4080.3	3913.4	3748.3	3299.5	2776.5
50°	4966.8	4835.1	4792.5	4714.6	4349.2	4230.5	4241.6	4087.7	3909.7	3436.7	2858.1
52.5°	4881.5	4905.6	4883.4	4753.5	4490.2	4386.3	4399.3	4260.2	4074.7	3564.7	2934.1
55°	5013.2	5029.9	4987.2	4816.6	4646.0	4542.1	4556.9	4442.0	4237.9	3677.8	2999.0
57.5°	5170.8	5111.5	5068.8	4927.9	4807.3	4710.9	4727.6	4627.4	4378.9	3768.7	3049.1
60°	5163.4	5039.2	5081.8	4935.3	4916.8	4866.7	4881.5	4779.5	4486.5	3835.5	3069.5
62.5°	4783.2	4716.4	4931.6	4881.5	5005.8	5005.8	5024.3	4872.2	4551.4	3863.3	3058.4
65°	4122.9	4126.7	4505.0	4712.7	5111.5	5196.8	5211.6	4929.7	4514.3	3781.7	2954.5
67.5°	3284.6	3308.7	3852.2	4284.3	5005.8	5326.6	5328.5	4981.7	4354.8	3551.7	2713.4
70°	2403.7	2422.2	3063.9	3588.8	4506.9	5039.2	5009.5	4835.1	4008.0	3151.1	2336.9
72.5°	1624.7	1641.4	2301.7	2756.1	3698.2	4291.7	4226.8	4273.2	3416.3	2589.1	1878.8
75°	1092.4	1112.8	1637.7	1971.5	2720.8	3258.7	3114.0	3236.4	2642.9	1960.4	1370.6
77.5°	688.1	701.1	1040.5	1292.7	1858.4	2218.2	2073.5	2075.4	1522.7	1055.3	736.3
80°	437.7	441.4	630.6	745.6	1075.7	1333.5	1179.6	958.9	686.2	560.1	439.6
82.5°	254.1	248.5	376.5	421.0	511.9	506.3	419.2	396.9	300.5	280.1	224.4
85°	102.0	94.6	165.1	153.9	155.8	165.1	122.4	122.4	98.3	76.0	55.6
87.5°	20.4	20.4	22.3	20.4	20.4	22.3	16.7	16.7	14.8	14.8	14.8
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°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7
2.5°	2017.9	2014.2	2004.9	1980.8	1967.8	1960.4	1949.3	1945.6	1943.7	1945.6	1951.1
5°	2023.5	2010.5	1984.5	1945.6	1919.6	1902.9	1884.4	1876.9	1871.4	1871.4	1876.9
7.5°	2027.2	2006.8	1962.2	1904.8	1867.7	1841.7	1819.4	1810.2	1808.3	1813.9	1815.7
10°	2029.0	1999.3	1936.3	1864.0	1815.7	1782.3	1760.1	1754.5	1760.1	1771.2	1773.1
12.5°	2042.0	2001.2	1921.4	1836.1	1778.6	1745.3	1728.6	1728.6	1743.4	1763.8	1765.7
15°	2064.3	2014.2	1914.0	1813.9	1754.5	1724.9	1719.3	1728.6	1750.8	1782.3	1786.1
17.5°	2080.9	2021.6	1897.3	1784.2	1723.0	1704.4	1713.7	1736.0	1767.5	1810.2	1813.9
20°	2092.1	2021.6	1873.2	1749.0	1691.5	1687.8	1713.7	1749.0	1782.3	1832.4	1838.0
22.5°	2103.2	2017.9	1845.4	1706.3	1656.2	1667.4	1715.6	1760.1	1793.5	1847.3	1856.5
25°	2123.6	2023.5	1817.6	1663.6	1619.1	1650.7	1713.7	1767.5	1802.7	1858.4	1873.2
27.5°	2151.4	2036.4	1797.2	1624.7	1582.0	1624.7	1700.7	1765.7	1802.7	1856.5	1873.2
30°	2181.1	2051.3	1773.1	1582.0	1539.4	1587.6	1672.9	1745.3	1787.9	1838.0	1858.4
32.5°	2212.6	2068.0	1752.7	1535.7	1487.5	1537.5	1632.1	1713.7	1760.1	1806.5	1828.7
35°	2255.3	2097.6	1741.5	1498.6	1441.1	1485.6	1580.2	1672.9	1723.0	1765.7	1791.6
37.5°	2307.2	2134.7	1736.0	1461.5	1391.0	1428.1	1524.5	1622.8	1676.6	1711.9	1736.0
40°	2366.6	2181.1	1734.1	1426.2	1340.9	1368.8	1467.1	1565.3	1617.3	1645.1	1665.5
42.5°	2433.3	2233.0	1730.4	1391.0	1290.9	1313.1	1411.4	1507.9	1552.4	1576.5	1595.0
45°	2503.8	2285.0	1723.0	1348.4	1237.1	1263.0	1353.9	1439.2	1485.6	1506.0	1526.4
47.5°	2574.3	2336.9	1708.2	1300.1	1188.8	1213.0	1292.7	1366.9	1404.0	1422.5	1442.9
50°	2642.9	2383.3	1672.9	1244.5	1138.8	1161.0	1222.2	1272.3	1300.1	1315.0	1335.4
52.5°	2704.1	2414.8	1622.8	1179.6	1088.7	1099.8	1140.6	1183.3	1205.5	1207.4	1225.9
55°	2756.1	2431.5	1550.5	1112.8	1034.9	1036.8	1059.0	1092.4	1101.7	1094.3	1107.2
57.5°	2785.7	2422.2	1470.8	1044.2	979.3	971.9	988.5	1005.2	1007.1	988.5	1001.5
60°	2793.1	2379.6	1366.9	975.6	923.6	903.2	908.8	905.1	901.4	894.0	905.1
62.5°	2756.1	2288.7	1251.9	908.8	864.3	832.8	830.9	829.0	834.6	836.5	838.3
65°	2620.7	2118.0	1114.7	840.2	801.2	758.6	756.7	779.0	786.4	775.3	779.0
67.5°	2359.2	1856.5	964.4	760.4	721.5	684.4	699.2	712.2	725.2	721.5	725.2
70°	1988.2	1524.5	827.2	671.4	634.3	613.9	630.6	641.7	643.6	639.9	643.6
72.5°	1563.5	1190.7	699.2	580.5	547.1	537.9	558.3	567.5	584.2	591.6	593.5
75°	1129.5	879.1	573.1	482.2	454.4	454.4	472.9	489.6	504.5	495.2	489.6
77.5°	630.6	524.9	411.7	332.0	337.6	363.5	370.9	389.5	404.3	402.5	398.8
80°	382.1	328.3	278.2	215.1	213.3	233.7	281.9	313.4	320.9	304.2	302.3
82.5°	198.5	172.5	148.4	120.6	133.5	155.8	163.2	196.6	217.0	209.6	218.9
85°	50.1	48.2	53.8	55.6	68.6	76.0	83.5	98.3	64.9	31.5	31.5
87.5°	14.8	14.8	18.5	18.5	24.1	29.7	27.8	27.8	14.8	1.9	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)