

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: P835881

Luminaire Tested: **ARCH3-110-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14516 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 111.9
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

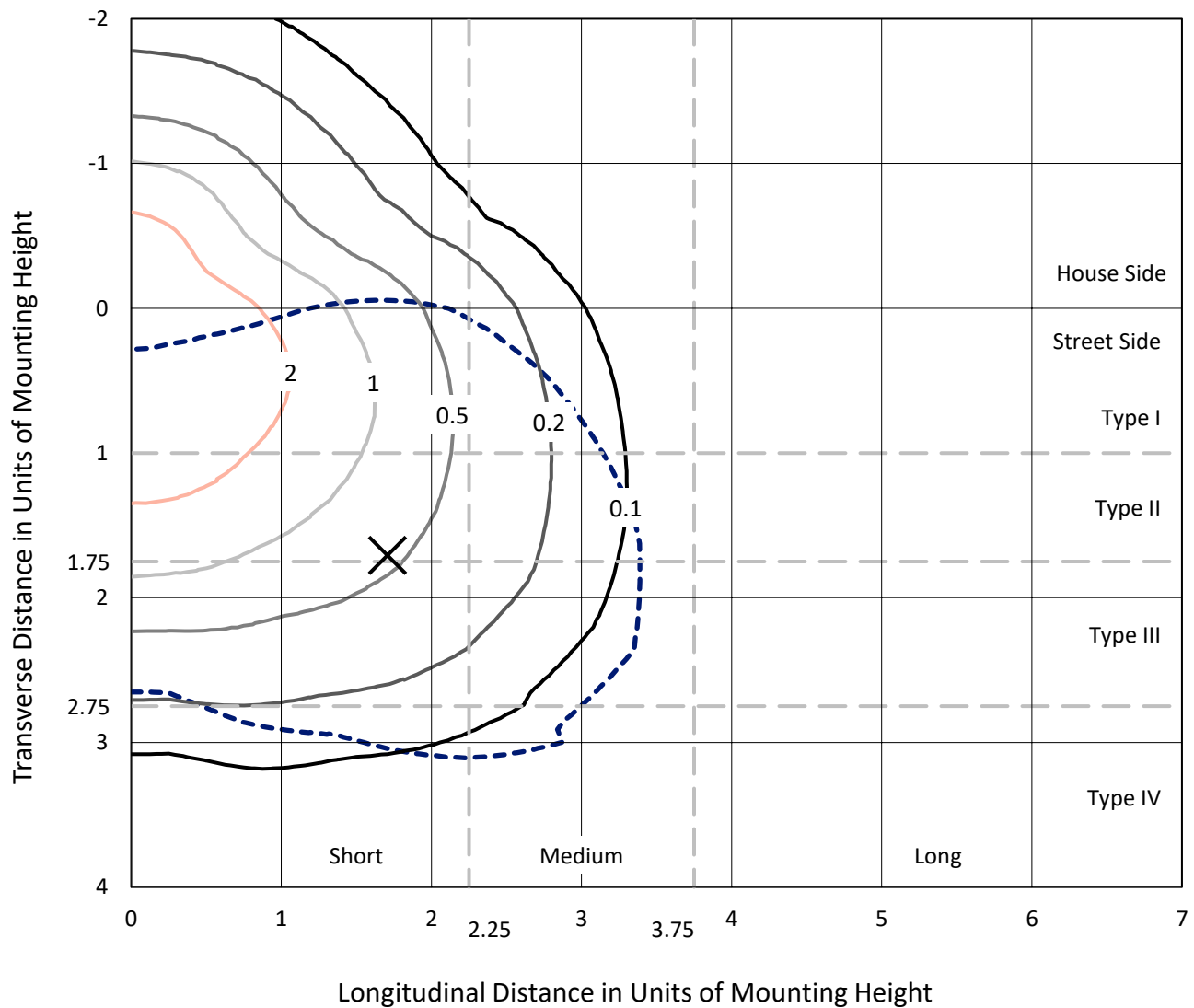


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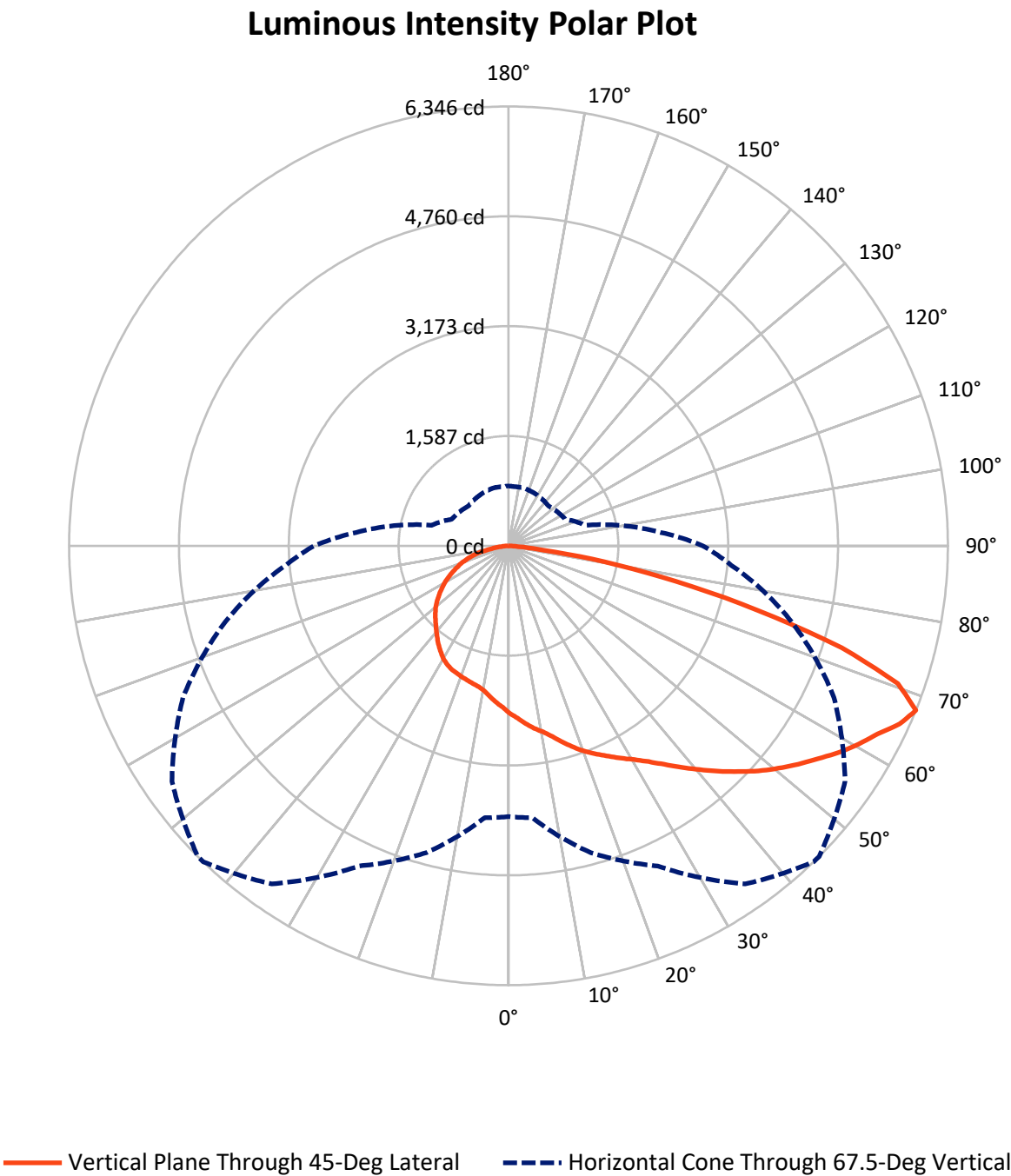
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type IV - Short - N/A

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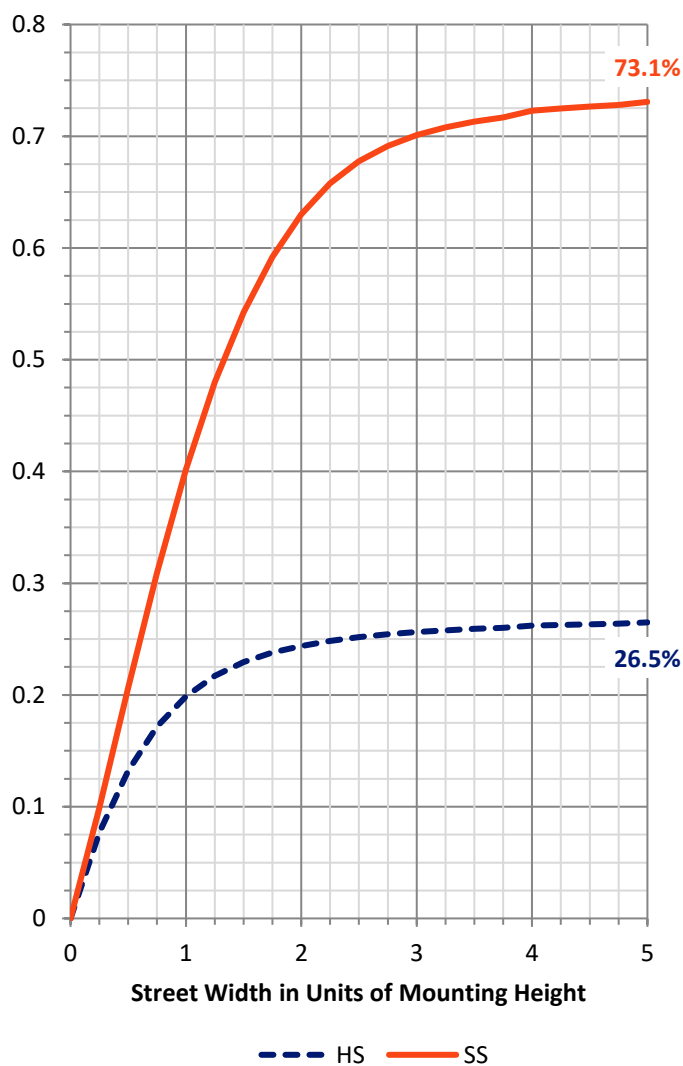
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3878.0	0.0	3878.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	10638.0	0.0	10638.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	14516.0	0.0	14516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	1.6
10°-20°	716.0	4.9
20°-30°	1236.0	8.5
30°-40°	1822.7	12.6
40°-50°	2469.3	17.0
50°-60°	3018.1	20.8
60°-70°	3112.8	21.4
70°-80°	1705.0	11.7
80°-90°	204.3	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°	14516.0	100.0
0°-180°	14516.0	100.0

Coefficient of Utilization



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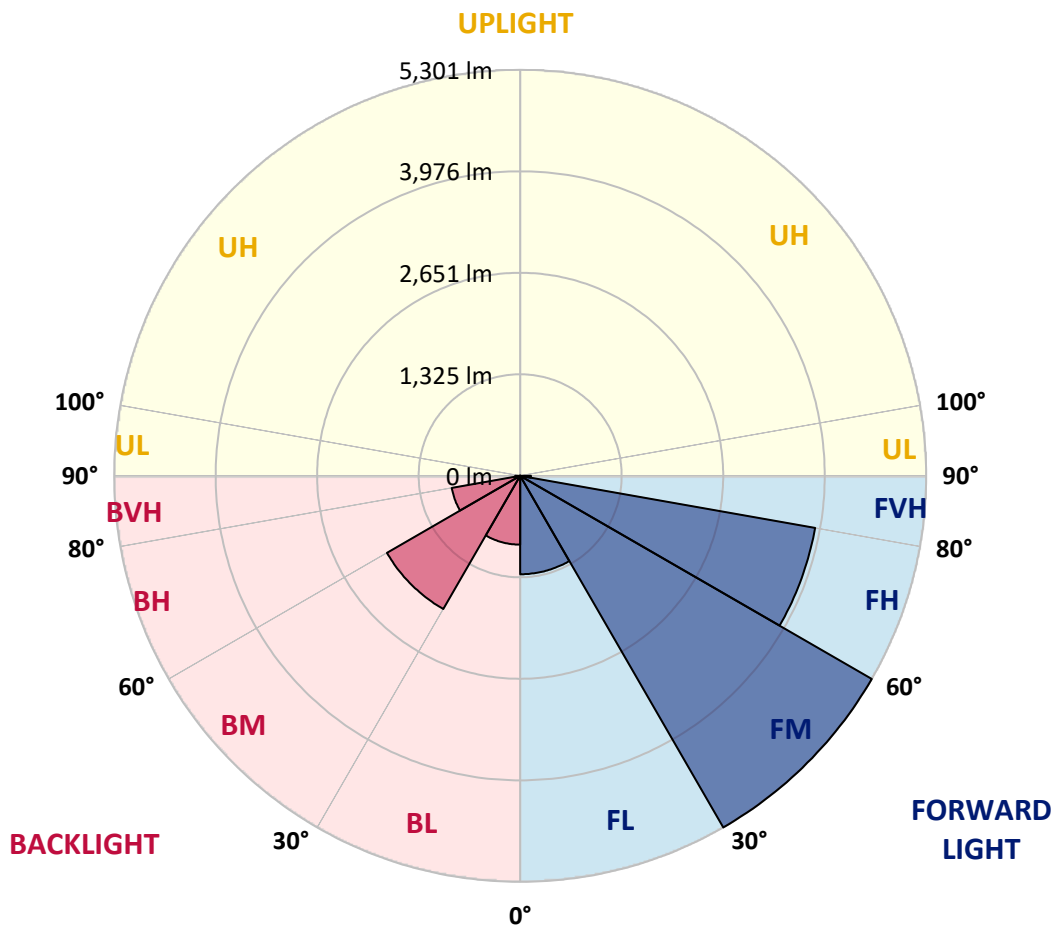
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1285.1	8.9			
FM	(30°-60°)	5301.4	36.5			
FH	(60°-80°)	3910.8	26.9			G2/5000
FVH	(80°-90°)	140.8	1.0			G2/225
BL	(0°-30°)	898.8	6.2	B2/1000		
BM	(30°-60°)	2008.7	13.8	B2/2500		
BH	(60°-80°)	906.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	63.6	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°	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0
2.5°	2527.0	2524.8	2529.2	2513.8	2493.9	2491.7	2491.7	2478.4	2463.0	2432.0	2407.7
5°	2646.3	2641.9	2644.1	2622.0	2595.5	2582.2	2580.0	2551.3	2516.0	2467.4	2423.2
7.5°	2756.8	2752.3	2750.1	2725.8	2686.1	2664.0	2661.8	2619.8	2577.8	2502.7	2438.7
10°	2860.6	2856.2	2851.7	2818.6	2770.0	2736.9	2732.5	2679.4	2626.4	2533.6	2451.9
12.5°	2993.1	2984.3	2979.9	2940.1	2869.4	2834.1	2827.4	2756.8	2690.5	2577.8	2478.4
15°	3132.3	3125.6	3119.0	3081.5	3001.9	2955.6	2944.5	2856.2	2765.6	2635.3	2518.2
17.5°	3236.1	3229.5	3229.5	3196.3	3123.4	3070.4	3061.6	2955.6	2842.9	2688.3	2549.1
20°	3300.1	3293.5	3300.1	3280.3	3225.0	3180.9	3172.0	3055.0	2920.2	2736.9	2575.6
22.5°	3346.5	3339.9	3351.0	3342.1	3302.4	3275.9	3269.2	3154.4	2999.7	2787.7	2602.1
25°	3428.3	3428.3	3428.3	3412.8	3375.3	3366.4	3366.4	3267.0	3101.3	2853.9	2641.9
27.5°	3591.7	3582.9	3571.8	3527.7	3463.6	3461.4	3474.7	3381.9	3218.4	2940.1	2690.5
30°	3832.5	3828.1	3786.1	3693.3	3585.1	3574.1	3582.9	3505.6	3344.3	3030.7	2745.7
32.5°	4144.0	4128.5	4042.4	3903.2	3748.6	3697.8	3715.4	3633.7	3476.9	3123.4	2798.7
35°	4364.9	4369.3	4307.4	4181.5	3998.2	3863.4	3876.7	3777.3	3620.4	3227.3	2865.0
37.5°	4618.9	4634.3	4541.6	4446.6	4276.5	4046.8	4060.0	3925.3	3764.0	3357.6	2935.7
40°	4970.1	4939.2	4782.3	4669.7	4481.9	4238.9	4250.0	4090.9	3929.7	3481.3	3017.4
42.5°	5263.9	5208.7	5018.7	4875.1	4649.8	4442.2	4453.2	4269.9	4097.6	3618.2	3108.0
45°	5685.8	5533.4	5259.5	5188.8	4822.1	4641.0	4652.0	4459.8	4274.3	3764.0	3205.2
47.5°	5931.0	5688.0	5513.5	5476.0	5012.1	4846.4	4859.7	4660.9	4464.3	3929.7	3306.8
50°	5915.5	5758.7	5707.9	5615.1	5180.0	5038.6	5051.8	4868.5	4656.4	4093.2	3404.0
52.5°	5813.9	5842.6	5816.1	5661.5	5347.8	5224.1	5239.6	5073.9	4853.0	4245.6	3494.5
55°	5970.8	5990.6	5939.8	5736.6	5533.4	5409.7	5427.4	5290.4	5047.4	4380.3	3571.8
57.5°	6158.5	6087.8	6037.0	5869.1	5725.6	5610.7	5630.6	5511.3	5215.3	4488.6	3631.5
60°	6149.7	6001.7	6052.5	5878.0	5855.9	5796.2	5813.9	5692.4	5343.4	4568.1	3655.8
62.5°	5696.8	5617.3	5873.6	5813.9	5961.9	5961.9	5984.0	5802.9	5420.7	4601.2	3642.5
65°	4910.5	4914.9	5365.5	5612.9	6087.8	6189.4	6207.1	5871.4	5376.5	4504.0	3518.8
67.5°	3912.0	3940.7	4588.0	5102.6	5961.9	6344.1	6346.3	5933.2	5186.6	4230.1	3231.7
70°	2862.8	2884.9	3649.2	4274.3	5367.7	6001.7	5966.3	5758.7	4773.5	3753.0	2783.3
72.5°	1935.0	1954.9	2741.3	3282.5	4404.6	5111.5	5034.2	5089.4	4068.9	3083.7	2237.7
75°	1301.1	1325.4	1950.5	2348.1	3240.5	3881.1	3708.8	3854.6	3147.7	2334.8	1632.4
77.5°	819.5	835.0	1239.2	1539.6	2213.4	2641.9	2469.6	2471.8	1813.5	1256.9	876.9
80°	521.3	525.7	751.0	888.0	1281.2	1588.2	1404.9	1142.0	817.3	667.1	523.5
82.5°	302.6	296.0	448.4	501.4	609.7	603.0	499.2	472.7	357.8	333.5	267.3
85°	121.5	112.7	196.6	183.3	185.6	196.6	145.8	145.8	117.1	90.6	66.3
87.5°	24.3	24.3	26.5	24.3	24.3	26.5	19.9	19.9	17.7	17.7	17.7
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°	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0
2.5°	2403.3	2398.9	2387.9	2359.1	2343.7	2334.8	2321.6	2317.2	2315.0	2317.2	2323.8
5°	2409.9	2394.5	2363.6	2317.2	2286.2	2266.4	2244.3	2235.4	2228.8	2228.8	2235.4
7.5°	2414.4	2390.1	2337.1	2268.6	2224.4	2193.5	2167.0	2155.9	2153.7	2160.3	2162.5
10°	2416.6	2381.2	2306.1	2220.0	2162.5	2122.8	2096.3	2089.7	2096.3	2109.5	2111.7
12.5°	2432.0	2383.4	2288.5	2186.8	2118.4	2078.6	2058.7	2058.7	2076.4	2100.7	2102.9
15°	2458.5	2398.9	2279.6	2160.3	2089.7	2054.3	2047.7	2058.7	2085.2	2122.8	2127.2
17.5°	2478.4	2407.7	2259.7	2125.0	2052.1	2030.0	2041.1	2067.6	2105.1	2155.9	2160.3
20°	2491.7	2407.7	2231.0	2083.0	2014.5	2010.1	2041.1	2083.0	2122.8	2182.4	2189.1
22.5°	2504.9	2403.3	2197.9	2032.2	1972.6	1985.8	2043.3	2096.3	2136.0	2200.1	2211.1
25°	2529.2	2409.9	2164.8	1981.4	1928.4	1966.0	2041.1	2105.1	2147.1	2213.4	2231.0
27.5°	2562.4	2425.4	2140.5	1935.0	1884.2	1935.0	2025.6	2102.9	2147.1	2211.1	2231.0
30°	2597.7	2443.1	2111.7	1884.2	1833.4	1890.8	1992.5	2078.6	2129.4	2189.1	2213.4
32.5°	2635.3	2463.0	2087.4	1829.0	1771.6	1831.2	1943.9	2041.1	2096.3	2151.5	2178.0
35°	2686.1	2498.3	2074.2	1784.8	1716.3	1769.4	1882.0	1992.5	2052.1	2102.9	2133.8
37.5°	2747.9	2542.5	2067.6	1740.6	1656.7	1700.9	1815.7	1932.8	1996.9	2038.8	2067.6
40°	2818.6	2597.7	2065.4	1698.7	1597.1	1630.2	1747.3	1864.3	1926.2	1959.3	1983.6
42.5°	2898.1	2659.6	2060.9	1656.7	1537.4	1563.9	1681.0	1795.9	1848.9	1877.6	1899.7
45°	2982.1	2721.4	2052.1	1605.9	1473.4	1504.3	1612.5	1714.1	1769.4	1793.7	1818.0
47.5°	3066.0	2783.3	2034.4	1548.5	1415.9	1444.6	1539.6	1628.0	1672.2	1694.3	1718.6
50°	3147.7	2838.5	1992.5	1482.2	1356.3	1382.8	1455.7	1515.3	1548.5	1566.1	1590.4
52.5°	3220.6	2876.0	1932.8	1404.9	1296.6	1309.9	1358.5	1409.3	1435.8	1438.0	1460.1
55°	3282.5	2895.9	1846.7	1325.4	1232.6	1234.8	1261.3	1301.1	1312.1	1303.3	1318.7
57.5°	3317.8	2884.9	1751.7	1243.6	1166.3	1157.5	1177.4	1197.2	1199.5	1177.4	1192.8
60°	3326.7	2834.1	1628.0	1161.9	1100.0	1075.8	1082.4	1078.0	1073.5	1064.7	1078.0
62.5°	3282.5	2725.8	1491.0	1082.4	1029.4	991.8	989.6	987.4	994.0	996.2	998.4
65°	3121.2	2522.6	1327.6	1000.6	954.3	903.5	901.2	927.8	936.6	923.3	927.8
67.5°	2809.8	2211.1	1148.6	905.7	859.3	815.1	832.8	848.2	863.7	859.3	863.7
70°	2368.0	1815.7	985.2	799.6	755.5	731.2	751.0	764.3	766.5	762.1	766.5
72.5°	1862.1	1418.1	832.8	691.4	651.6	640.6	664.9	675.9	695.8	704.7	706.9
75°	1345.2	1047.0	682.6	574.3	541.2	541.2	563.3	583.2	600.8	589.8	583.2
77.5°	751.0	625.1	490.4	395.4	402.0	433.0	441.8	463.9	481.5	479.3	474.9
80°	455.0	391.0	331.3	256.2	254.0	278.3	335.8	373.3	382.1	362.3	360.1
82.5°	236.4	205.4	176.7	143.6	159.0	185.6	194.4	234.1	258.4	249.6	260.7
85°	59.6	57.4	64.1	66.3	81.7	90.6	99.4	117.1	77.3	37.6	37.6
87.5°	17.7	17.7	22.1	22.1	28.7	35.3	33.1	33.1	17.7	2.2	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)