

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: P842525

Luminaire Tested: **ARCH4-60-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10730 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 63
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



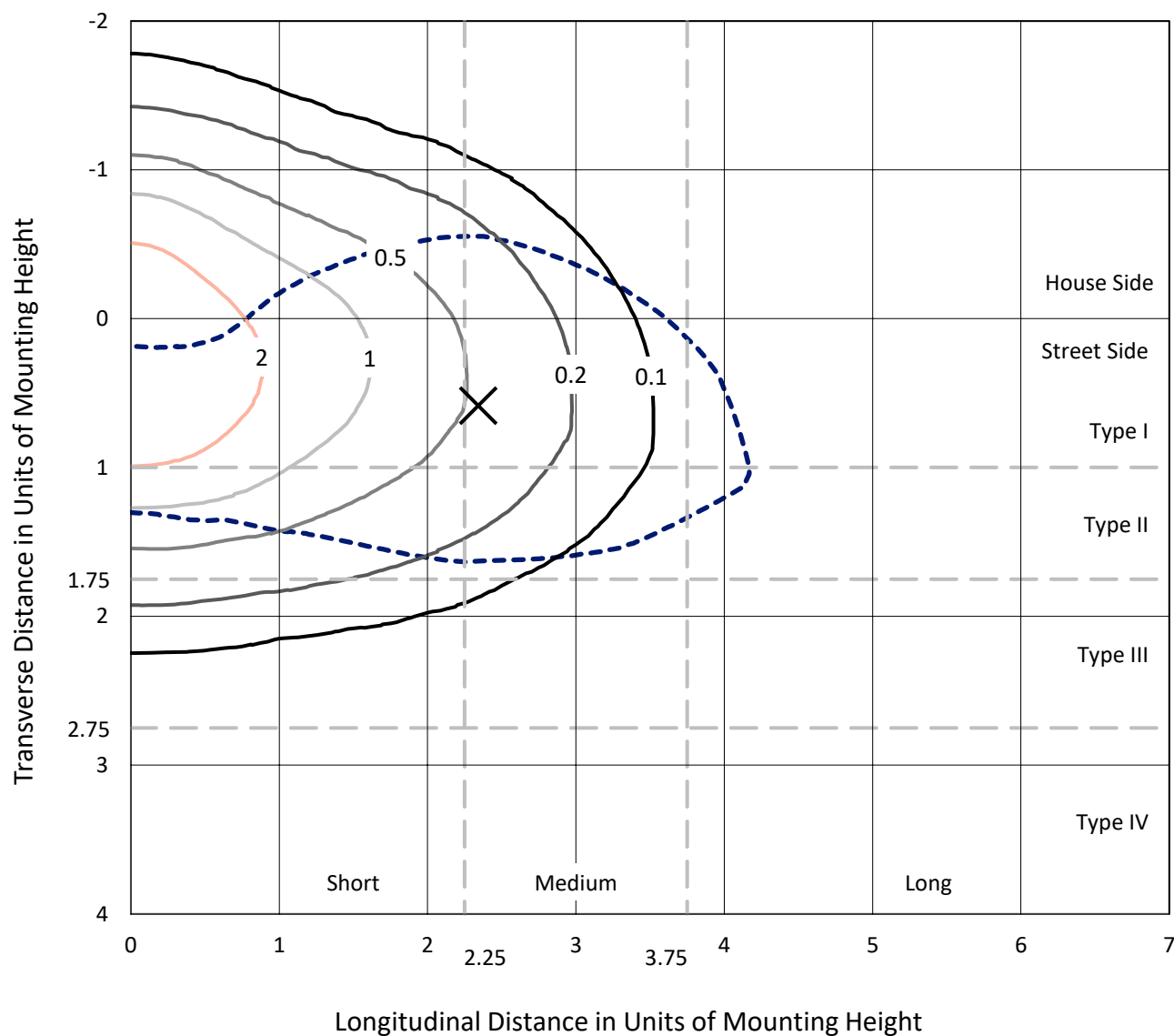
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

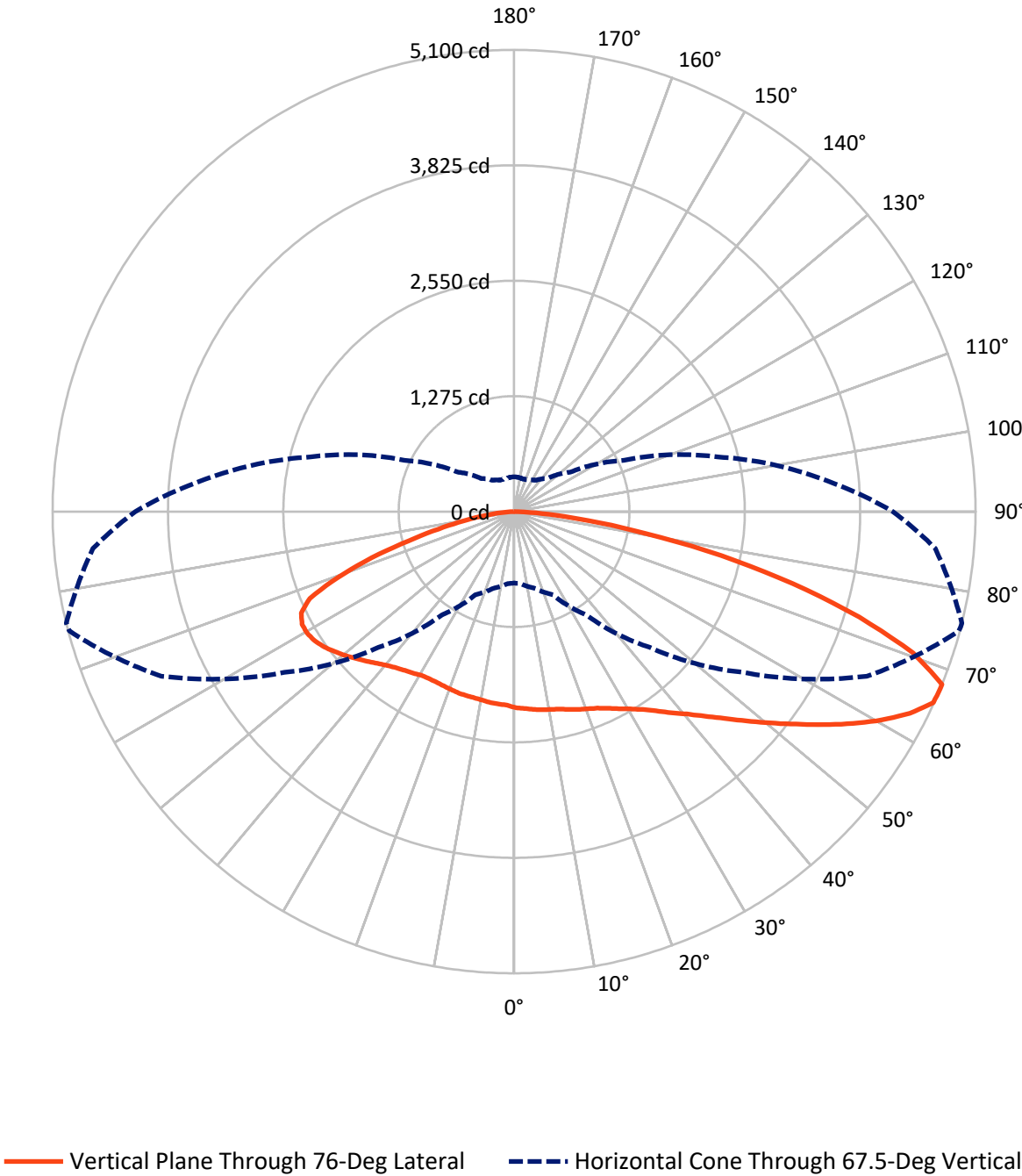
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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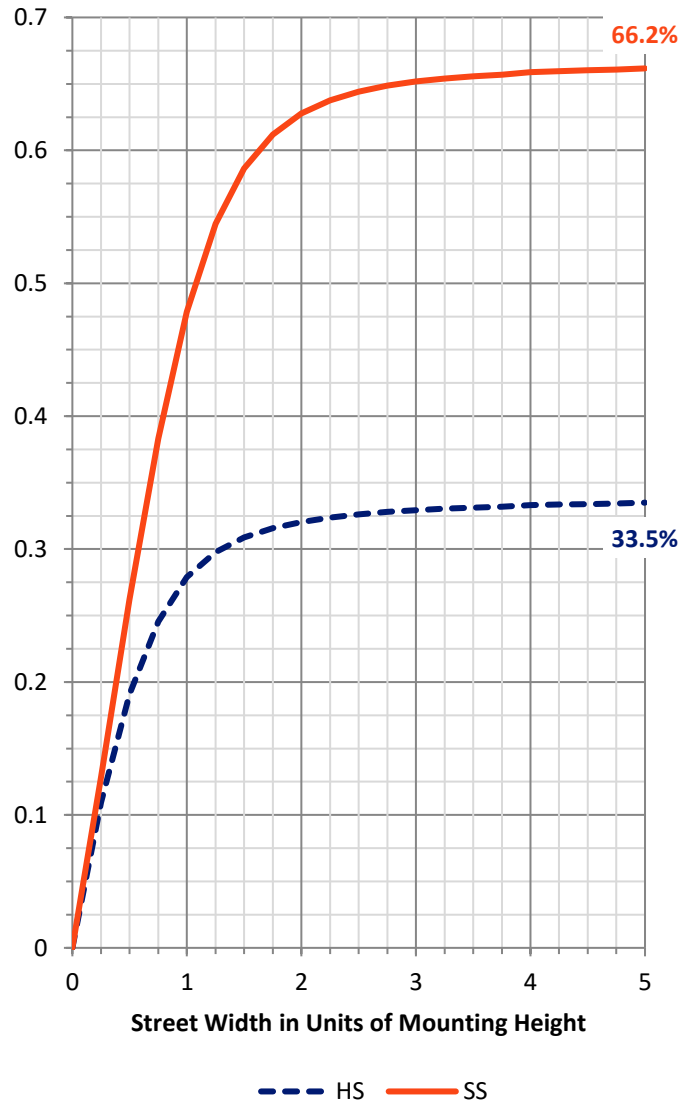
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3625.7	0.0	3625.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7104.3	0.0	7104.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	10730.0	0.0	10730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	1.9
10°-20°	639.0	6.0
20°-30°	1085.6	10.1
30°-40°	1544.7	14.4
40°-50°	1950.9	18.2
50°-60°	2112.2	19.7
60°-70°	1964.5	18.3
70°-80°	1055.1	9.8
80°-90°	169.1	1.6
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°	10730.0	100.0
0°-180°	10730.0	100.0

Coefficient of Utilization



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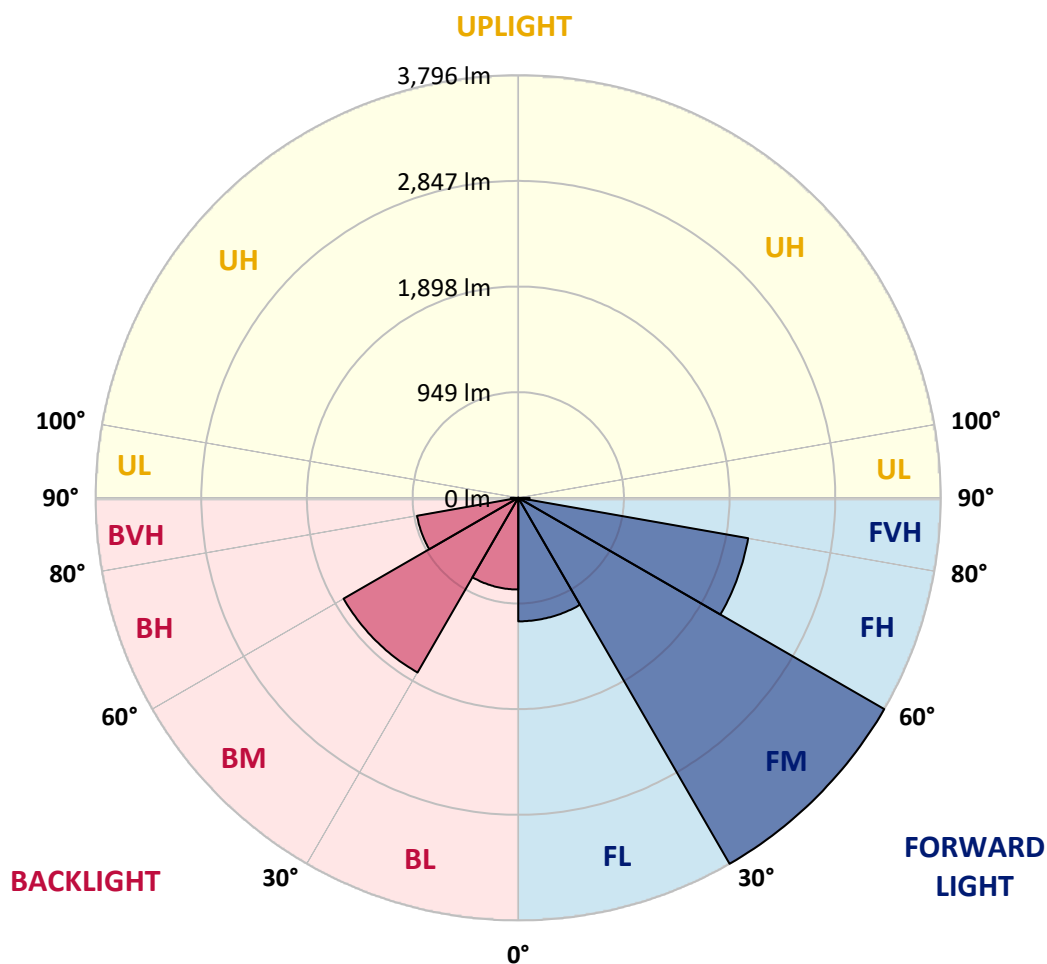
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1109.6	10.3			
FM	(30°-60°)	3795.9	35.4			
FH	(60°-80°)	2096.5	19.5			G2/5000
FVH	(80°-90°)	102.3	1.0			G2/225
BL	(0°-30°)	824.0	7.7	B2/1000		
BM	(30°-60°)	1811.8	16.9	B2/2500		
BH	(60°-80°)	923.1	8.6	B2/1000		G2/1000
BVH	(80°-90°)	66.8	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4
2.5°	2233.2	2229.2	2213.3	2215.2	2215.2	2213.3	2189.3	2179.4	2179.4	2177.4	2155.5
5°	2312.9	2306.9	2289.0	2285.0	2277.0	2267.0	2229.2	2207.3	2197.3	2195.3	2165.4
7.5°	2406.5	2398.5	2376.6	2364.7	2344.7	2318.8	2271.0	2237.2	2213.3	2211.3	2169.4
10°	2500.1	2492.2	2466.3	2444.3	2416.5	2374.6	2312.9	2263.1	2225.2	2221.2	2171.4
12.5°	2611.7	2603.7	2571.8	2543.9	2502.1	2446.3	2364.7	2296.9	2245.1	2239.2	2177.4
15°	2729.2	2717.3	2685.4	2653.5	2601.7	2530.0	2432.4	2342.7	2277.0	2267.0	2195.3
17.5°	2826.8	2810.9	2785.0	2753.1	2695.4	2611.7	2500.1	2388.6	2306.9	2298.9	2213.3
20°	2910.5	2898.5	2870.7	2840.8	2779.0	2687.4	2563.9	2434.4	2334.8	2324.8	2227.2
22.5°	2990.2	2974.2	2958.3	2936.4	2868.7	2767.1	2637.6	2490.2	2370.6	2358.7	2245.1
25°	3081.8	3063.9	3057.9	3046.0	2966.3	2862.7	2727.2	2559.9	2420.4	2406.5	2277.0
27.5°	3195.4	3175.5	3163.5	3163.5	3067.9	2960.3	2822.8	2641.6	2478.2	2466.3	2316.8
30°	3314.9	3291.0	3273.1	3273.1	3165.5	3057.9	2916.5	2723.2	2543.9	2530.0	2368.6
32.5°	3420.5	3396.6	3376.7	3374.7	3263.1	3155.5	3014.1	2812.9	2623.6	2605.7	2432.4
35°	3502.2	3480.2	3462.3	3466.3	3360.7	3255.1	3123.7	2932.4	2723.2	2703.3	2516.1
37.5°	3552.0	3544.0	3534.0	3548.0	3450.4	3350.8	3237.2	3048.0	2836.8	2818.9	2619.6
40°	3577.9	3571.9	3611.7	3629.7	3526.1	3436.4	3350.8	3167.5	2960.3	2940.4	2739.2
42.5°	3615.7	3665.5	3681.5	3677.5	3581.8	3502.2	3454.4	3297.0	3105.7	3087.8	2882.6
45°	3480.2	3468.3	3556.0	3603.8	3585.8	3544.0	3552.0	3452.4	3275.1	3257.1	3048.0
47.5°	3299.0	3283.0	3332.8	3450.4	3520.1	3559.9	3639.6	3613.7	3470.3	3454.4	3241.2
50°	2916.5	2938.4	3123.7	3281.0	3418.5	3556.0	3713.3	3787.0	3685.4	3669.5	3448.4
52.5°	2492.2	2514.1	2707.3	3069.9	3295.0	3526.1	3767.1	3960.4	3918.5	3900.6	3669.5
55°	2183.4	2231.2	2450.3	2713.3	3119.7	3432.4	3799.0	4137.7	4169.5	4153.6	3910.5
57.5°	1876.6	1912.4	2077.8	2310.9	2880.6	3269.1	3797.0	4303.0	4432.5	4416.5	4155.6
60°	1516.0	1561.8	1693.3	1944.3	2561.9	3073.9	3741.2	4432.5	4685.5	4673.5	4392.6
62.5°	1269.0	1282.9	1376.6	1593.7	2151.5	2826.8	3615.7	4502.2	4914.6	4906.6	4605.8
65°	1022.0	1024.0	1109.6	1290.9	1755.1	2520.0	3402.6	4476.3	5087.9	5091.9	4759.2
67.5°	788.9	798.8	876.5	1014.0	1394.5	2121.6	3097.8	4301.0	5089.9	5099.9	4671.5
70°	545.8	553.8	671.3	804.8	1077.7	1691.3	2685.4	3836.8	4671.5	4679.5	4187.5
72.5°	384.5	388.5	514.0	643.5	842.7	1275.0	2026.0	3173.5	3982.3	3988.2	3522.1
75°	286.9	290.9	362.6	488.1	645.4	882.5	1384.5	2430.4	3181.4	3181.4	2781.0
77.5°	203.2	205.2	235.1	336.7	430.3	595.6	832.7	1591.7	2334.8	2338.8	2026.0
80°	137.5	139.4	153.4	227.1	268.9	322.7	452.2	834.7	1472.2	1478.2	1286.9
82.5°	71.7	75.7	85.7	115.5	135.5	179.3	233.1	424.3	814.8	830.7	772.9
85°	27.9	27.9	31.9	37.9	49.8	69.7	107.6	161.4	368.5	380.5	340.7
87.5°	10.0	10.0	12.0	12.0	13.9	15.9	17.9	23.9	41.8	41.8	39.8
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°	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4
2.5°	2147.5	2147.5	2137.6	2141.5	2139.5	2135.6	2131.6	2137.6	2131.6	2117.6	2115.6
5°	2151.5	2147.5	2131.6	2129.6	2123.6	2115.6	2105.7	2109.7	2099.7	2087.8	2085.8
7.5°	2153.5	2145.5	2123.6	2115.6	2103.7	2087.8	2071.8	2071.8	2057.9	2045.9	2043.9
10°	2149.5	2139.5	2109.7	2093.7	2071.8	2047.9	2026.0	2020.0	2004.1	1990.1	1990.1
12.5°	2151.5	2137.6	2099.7	2073.8	2043.9	2014.0	1986.2	1978.2	1964.2	1950.3	1948.3
15°	2163.5	2143.5	2095.7	2061.9	2018.0	1984.2	1954.3	1948.3	1936.3	1926.4	1926.4
17.5°	2175.4	2149.5	2089.7	2041.9	1988.1	1950.3	1922.4	1922.4	1914.4	1908.5	1908.5
20°	2181.4	2151.5	2077.8	2014.0	1952.3	1912.4	1886.5	1890.5	1888.5	1886.5	1886.5
22.5°	2195.3	2155.5	2067.8	1988.1	1914.4	1872.6	1848.7	1854.7	1852.7	1852.7	1854.7
25°	2217.2	2165.4	2059.9	1964.2	1878.6	1832.8	1806.9	1810.8	1810.8	1810.8	1810.8
27.5°	2247.1	2185.4	2057.9	1942.3	1842.7	1790.9	1759.0	1759.0	1751.1	1753.1	1755.1
30°	2292.9	2223.2	2061.9	1922.4	1804.9	1739.1	1701.3	1695.3	1693.3	1697.3	1699.3
32.5°	2348.7	2275.0	2085.8	1908.5	1765.0	1681.4	1633.5	1631.6	1625.6	1625.6	1625.6
35°	2418.4	2324.8	2107.7	1906.5	1725.2	1619.6	1567.8	1561.8	1547.9	1541.9	1541.9
37.5°	2508.1	2402.5	2133.6	1892.5	1691.3	1559.8	1498.1	1478.2	1462.2	1460.2	1460.2
40°	2617.7	2490.2	2171.4	1876.6	1655.5	1498.1	1416.4	1382.5	1384.5	1392.5	1392.5
42.5°	2747.1	2597.7	2219.2	1868.6	1603.7	1434.3	1320.8	1280.9	1294.9	1302.9	1304.8
45°	2898.5	2725.2	2273.0	1858.7	1555.9	1362.6	1219.2	1169.4	1175.4	1177.3	1179.3
47.5°	3073.9	2866.7	2328.8	1850.7	1502.1	1273.0	1107.6	1041.9	1039.9	1027.9	1031.9
50°	3257.1	3016.1	2386.6	1836.7	1436.3	1167.4	990.1	912.4	896.5	878.5	880.5
52.5°	3452.4	3169.5	2440.4	1814.8	1354.6	1059.8	878.5	794.9	763.0	743.1	747.0
55°	3667.5	3326.9	2492.2	1781.0	1269.0	952.2	778.9	693.3	653.4	637.5	639.5
57.5°	3864.7	3478.3	2530.0	1739.1	1175.4	854.6	691.3	607.6	581.7	579.7	581.7
60°	4056.0	3605.8	2545.9	1681.4	1079.7	765.0	609.6	545.8	527.9	537.9	539.9
62.5°	4217.3	3687.4	2538.0	1603.7	982.1	679.3	543.9	498.0	486.1	506.0	508.0
65°	4311.0	3713.3	2482.2	1492.1	876.5	595.6	482.1	432.3	426.3	438.3	444.2
67.5°	4187.5	3552.0	2330.8	1338.7	759.0	518.0	422.3	382.5	372.5	382.5	382.5
70°	3711.3	3077.8	1972.2	1095.7	629.5	442.3	366.6	338.7	330.7	338.7	336.7
72.5°	3091.8	2559.9	1553.9	854.6	496.0	372.5	318.7	292.8	284.9	276.9	272.9
75°	2398.5	1944.3	1127.5	627.5	374.5	298.8	266.9	243.0	223.1	231.1	227.1
77.5°	1757.1	1364.6	798.8	434.3	268.9	231.1	209.2	191.2	177.3	193.2	191.2
80°	1131.5	882.5	533.9	290.9	185.3	161.4	153.4	143.4	157.4	205.2	209.2
82.5°	691.3	559.8	318.7	189.3	121.5	107.6	99.6	99.6	161.4	177.3	179.3
85°	308.8	296.8	173.3	97.6	67.7	61.8	55.8	71.7	65.7	47.8	49.8
87.5°	49.8	51.8	37.9	33.9	25.9	25.9	19.9	13.9	10.0	6.0	6.0
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)