

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: P842736

Luminaire Tested: **ARCH4-90-722-U-T4W**

Issue Date: 5/27/2024

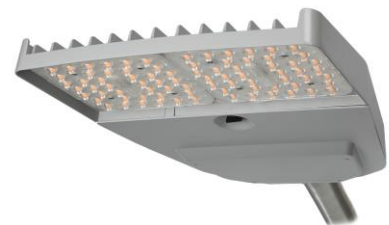
Test Information

Test Method: LM-79-08
Report Number: P842736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13689 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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



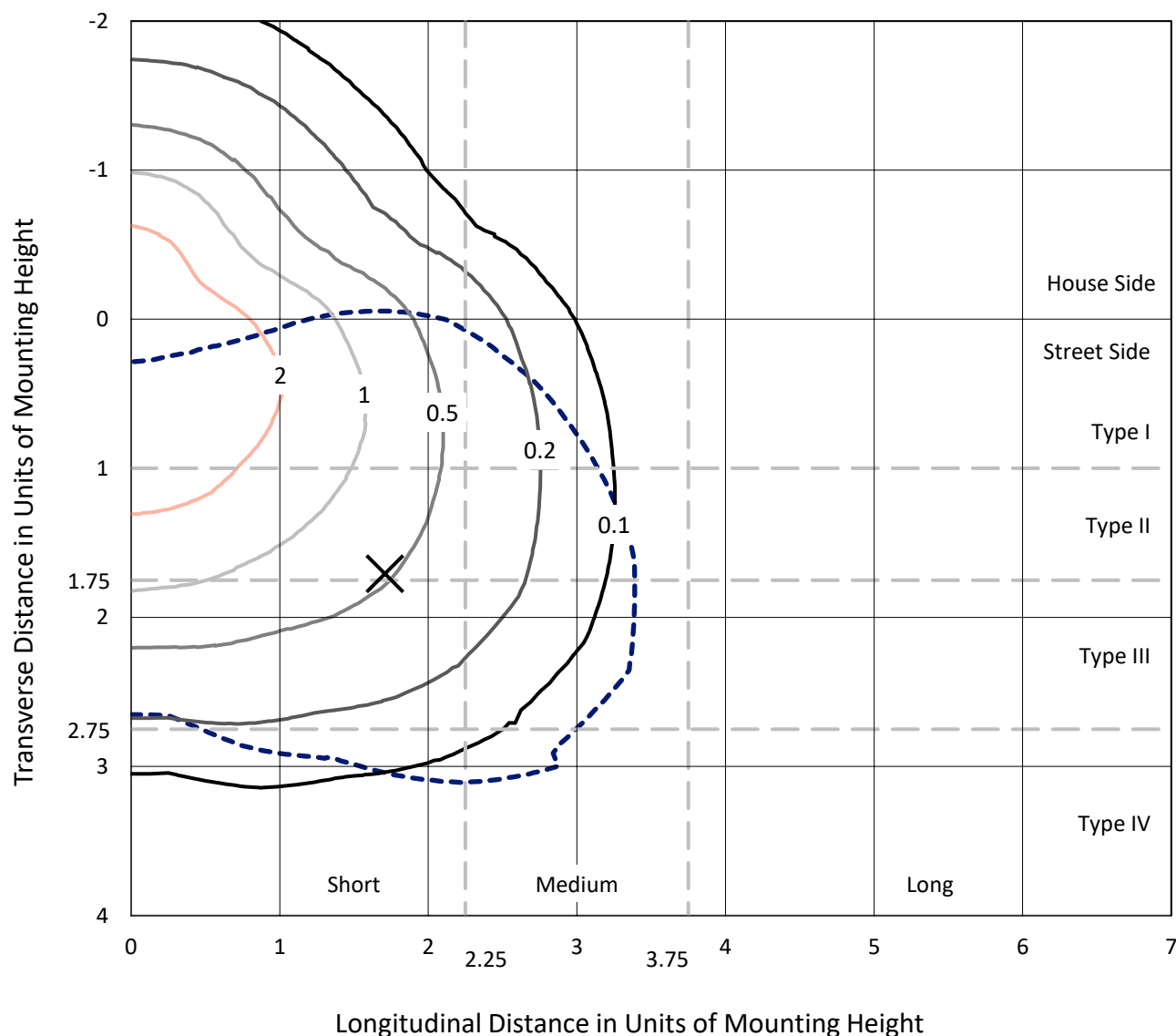
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

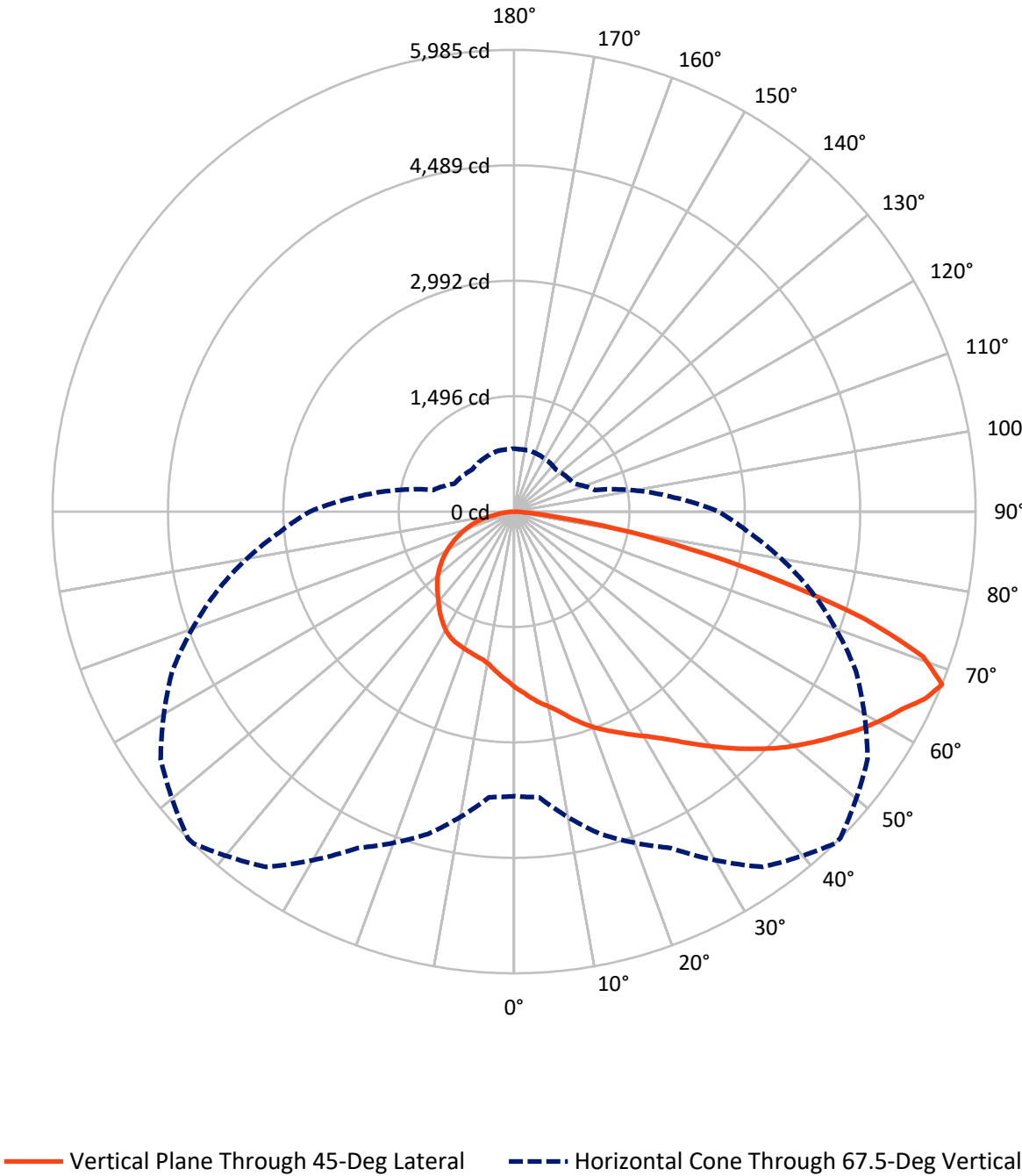


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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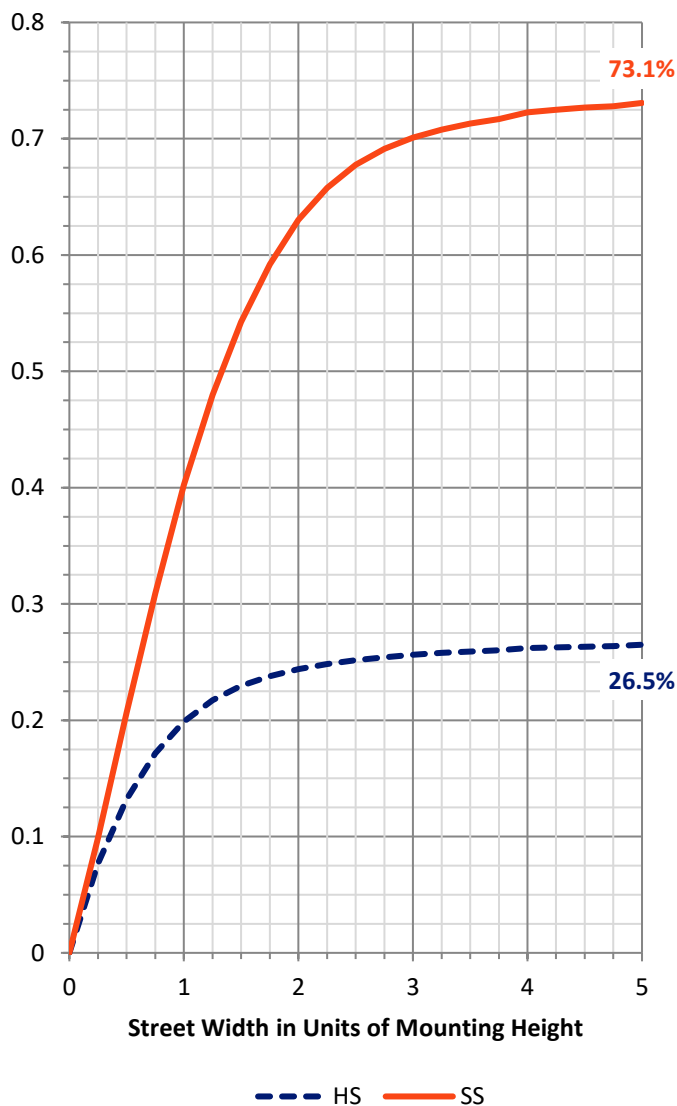
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3657.0	0.0	3657.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	10032.0	0.0	10032.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	13689.0	0.0	13689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	1.6
10°-20°	675.3	4.9
20°-30°	1165.6	8.5
30°-40°	1718.8	12.6
40°-50°	2328.7	17.0
50°-60°	2846.2	20.8
60°-70°	2935.4	21.4
70°-80°	1607.8	11.7
80°-90°	192.7	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°	13689.0	100.0
0°-180°	13689.0	100.0

Coefficient of Utilization



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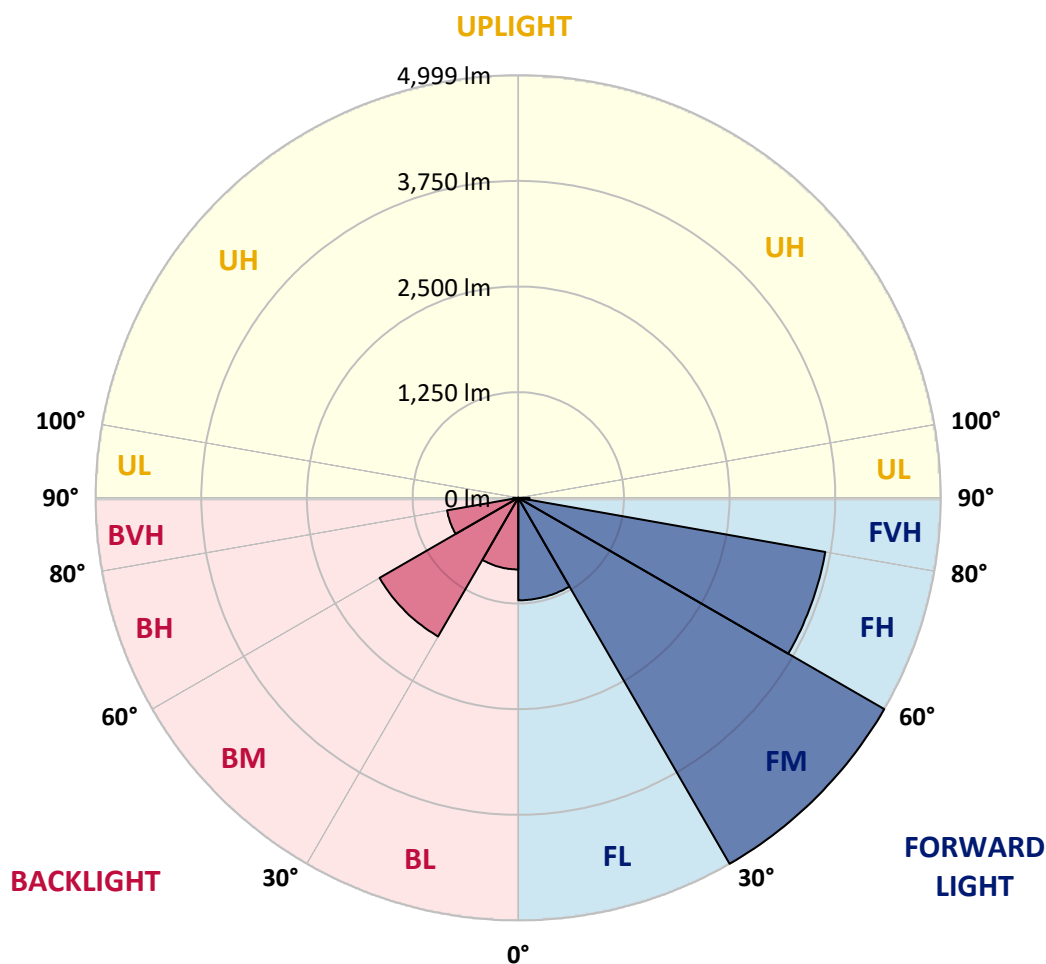
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1211.8	8.9			
FM	(30°-60°)	4999.4	36.5			
FH	(60°-80°)	3688.0	26.9			G2/5000
FVH	(80°-90°)	132.8	1.0			G2/225
BL	(0°-30°)	847.6	6.2	B2/1000		
BM	(30°-60°)	1894.3	13.8	B2/2500		
BH	(60°-80°)	855.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	60.0	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°	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1
2.5°	2383.1	2381.0	2385.1	2370.6	2351.8	2349.7	2349.7	2337.2	2322.6	2293.5	2270.6
5°	2495.5	2491.4	2493.5	2472.6	2447.6	2435.1	2433.0	2406.0	2372.6	2326.8	2285.1
7.5°	2599.7	2595.5	2593.4	2570.5	2533.0	2512.2	2510.1	2470.5	2431.0	2360.1	2299.7
10°	2697.6	2693.4	2689.3	2658.0	2612.2	2580.9	2576.8	2526.8	2476.8	2389.3	2312.2
12.5°	2822.6	2814.3	2810.1	2772.6	2705.9	2672.6	2666.4	2599.7	2537.2	2431.0	2337.2
15°	2953.8	2947.6	2941.3	2905.9	2830.9	2787.2	2776.8	2693.4	2608.0	2485.1	2374.7
17.5°	3051.7	3045.5	3045.5	3014.2	2945.5	2895.5	2887.2	2787.2	2680.9	2535.1	2403.9
20°	3112.1	3105.9	3112.1	3093.4	3041.3	2999.6	2991.3	2880.9	2753.8	2580.9	2428.9
22.5°	3155.9	3149.6	3160.0	3151.7	3114.2	3089.2	3083.0	2974.7	2828.8	2628.9	2453.9
25°	3233.0	3233.0	3233.0	3218.4	3183.0	3174.6	3174.6	3080.9	2924.7	2691.4	2491.4
27.5°	3387.1	3378.8	3368.4	3326.7	3266.3	3264.2	3276.7	3189.2	3035.1	2772.6	2537.2
30°	3614.2	3610.0	3570.4	3482.9	3380.9	3370.4	3378.8	3305.9	3153.8	2858.0	2589.3
32.5°	3907.9	3893.3	3812.1	3680.8	3535.0	3487.1	3503.8	3426.7	3278.8	2945.5	2639.3
35°	4116.2	4120.4	4062.0	3943.3	3770.4	3643.3	3655.8	3562.1	3414.2	3043.4	2701.8
37.5°	4355.7	4370.3	4282.8	4193.3	4032.9	3816.2	3828.7	3701.6	3549.6	3166.3	2768.4
40°	4687.0	4657.8	4509.9	4403.7	4226.6	3997.4	4007.9	3857.9	3705.8	3282.9	2845.5
42.5°	4964.0	4911.9	4732.8	4597.4	4384.9	4189.1	4199.5	4026.6	3864.1	3412.1	2930.9
45°	5361.9	5218.1	4959.8	4893.2	4547.4	4376.6	4387.0	4205.8	4030.8	3549.6	3022.6
47.5°	5593.1	5364.0	5199.4	5164.0	4726.5	4570.3	4582.8	4395.3	4209.9	3705.8	3118.4
50°	5578.5	5430.6	5382.7	5295.2	4884.8	4751.5	4764.0	4591.1	4391.2	3860.0	3210.0
52.5°	5482.7	5509.8	5484.8	5339.0	5043.2	4926.5	4941.1	4784.9	4576.5	4003.7	3295.4
55°	5630.6	5649.3	5601.4	5409.8	5218.1	5101.5	5118.1	4989.0	4759.9	4130.8	3368.4
57.5°	5807.7	5741.0	5693.1	5534.8	5399.4	5291.0	5309.8	5197.3	4918.2	4232.8	3424.6
60°	5799.3	5659.8	5707.7	5543.1	5522.3	5466.0	5482.7	5368.1	5039.0	4307.8	3447.5
62.5°	5372.3	5297.3	5538.9	5482.7	5622.3	5622.3	5643.1	5472.3	5111.9	4339.1	3435.0
65°	4630.7	4634.9	5059.8	5293.1	5741.0	5836.8	5853.5	5536.9	5070.2	4247.4	3318.4
67.5°	3689.2	3716.2	4326.6	4811.9	5622.3	5982.6	5984.7	5595.2	4891.1	3989.1	3047.6
70°	2699.7	2720.5	3441.3	4030.8	5061.9	5659.8	5626.4	5430.6	4501.6	3539.2	2624.7
72.5°	1824.8	1843.5	2585.1	3095.5	4153.7	4820.3	4747.4	4799.4	3837.0	2908.0	2110.2
75°	1226.9	1249.9	1839.4	2214.3	3055.9	3660.0	3497.5	3635.0	2968.4	2201.8	1539.4
77.5°	772.8	787.4	1168.6	1451.9	2087.3	2491.4	2328.9	2331.0	1710.2	1185.3	827.0
80°	491.6	495.8	708.3	837.4	1208.2	1497.7	1324.8	1077.0	770.7	629.1	493.7
82.5°	285.4	279.1	422.9	472.9	574.9	568.7	470.8	445.8	337.5	314.5	252.1
85°	114.6	106.2	185.4	172.9	175.0	185.4	137.5	137.5	110.4	85.4	62.5
87.5°	22.9	22.9	25.0	22.9	22.9	25.0	18.7	18.7	16.7	16.7	16.7
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°	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1	2283.1
2.5°	2266.4	2262.2	2251.8	2224.7	2210.2	2201.8	2189.3	2185.2	2183.1	2185.2	2191.4
5°	2272.7	2258.1	2228.9	2185.2	2156.0	2137.2	2116.4	2108.1	2101.8	2101.8	2108.1
7.5°	2276.8	2253.9	2203.9	2139.3	2097.7	2068.5	2043.5	2033.1	2031.0	2037.3	2039.3
10°	2278.9	2245.6	2174.7	2093.5	2039.3	2001.8	1976.9	1970.6	1976.9	1989.4	1991.4
12.5°	2293.5	2247.7	2158.1	2062.3	1997.7	1960.2	1941.4	1941.4	1958.1	1981.0	1983.1
15°	2318.5	2262.2	2149.7	2037.3	1970.6	1937.3	1931.0	1941.4	1966.4	2001.8	2006.0
17.5°	2337.2	2270.6	2131.0	2003.9	1935.2	1914.4	1924.8	1949.8	1985.2	2033.1	2037.3
20°	2349.7	2270.6	2103.9	1964.4	1899.8	1895.6	1924.8	1964.4	2001.8	2058.1	2064.3
22.5°	2362.2	2266.4	2072.7	1916.4	1860.2	1872.7	1926.9	1976.9	2014.3	2074.8	2085.2
25°	2385.1	2272.7	2041.4	1868.5	1818.5	1853.9	1924.8	1985.2	2024.8	2087.3	2103.9
27.5°	2416.4	2287.2	2018.5	1824.8	1776.9	1824.8	1910.2	1983.1	2024.8	2085.2	2103.9
30°	2449.7	2303.9	1991.4	1776.9	1729.0	1783.1	1878.9	1960.2	2008.1	2064.3	2087.3
32.5°	2485.1	2322.6	1968.5	1724.8	1670.6	1726.9	1833.1	1924.8	1976.9	2028.9	2053.9
35°	2533.0	2356.0	1956.0	1683.1	1618.6	1668.6	1774.8	1878.9	1935.2	1983.1	2012.3
37.5°	2591.4	2397.6	1949.8	1641.5	1562.3	1604.0	1712.3	1822.7	1883.1	1922.7	1949.8
40°	2658.0	2449.7	1947.7	1601.9	1506.1	1537.3	1647.7	1758.1	1816.5	1847.7	1870.6
42.5°	2733.0	2508.0	1943.5	1562.3	1449.8	1474.8	1585.2	1693.6	1743.5	1770.6	1791.5
45°	2812.2	2566.4	1935.2	1514.4	1389.4	1418.6	1520.7	1616.5	1668.6	1691.5	1714.4
47.5°	2891.3	2624.7	1918.5	1460.2	1335.3	1362.3	1451.9	1535.2	1576.9	1597.7	1620.6
50°	2968.4	2676.8	1878.9	1397.8	1279.0	1304.0	1372.8	1429.0	1460.2	1476.9	1499.8
52.5°	3037.1	2712.2	1822.7	1324.8	1222.8	1235.3	1281.1	1329.0	1354.0	1356.1	1376.9
55°	3095.5	2730.9	1741.5	1249.9	1162.4	1164.4	1189.4	1226.9	1237.4	1229.0	1243.6
57.5°	3128.8	2720.5	1651.9	1172.8	1099.9	1091.5	1110.3	1129.0	1131.1	1110.3	1124.9
60°	3137.1	2672.6	1535.2	1095.7	1037.4	1014.5	1020.7	1016.5	1012.4	1004.0	1016.5
62.5°	3095.5	2570.5	1406.1	1020.7	970.7	935.3	933.2	931.1	937.4	939.5	941.6
65°	2943.4	2378.9	1251.9	943.6	899.9	852.0	849.9	874.9	883.2	870.7	874.9
67.5°	2649.7	2085.2	1083.2	854.1	810.3	768.7	785.3	799.9	814.5	810.3	814.5
70°	2233.1	1712.3	929.1	754.1	712.4	689.5	708.3	720.7	722.8	718.7	722.8
72.5°	1756.0	1337.3	785.3	652.0	614.5	604.1	627.0	637.4	656.2	664.5	666.6
75°	1268.6	987.4	643.7	541.6	510.4	510.4	531.2	549.9	566.6	556.2	549.9
77.5°	708.3	589.5	462.4	372.9	379.1	408.3	416.6	437.4	454.1	452.0	447.9
80°	429.1	368.7	312.5	241.6	239.6	262.5	316.6	352.0	360.4	341.6	339.5
82.5°	222.9	193.7	166.6	135.4	150.0	175.0	183.3	220.8	243.7	235.4	245.8
85°	56.2	54.2	60.4	62.5	77.1	85.4	93.7	110.4	72.9	35.4	35.4
87.5°	16.7	16.7	20.8	20.8	27.1	33.3	31.2	31.2	16.7	2.1	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)