

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: P840864

Luminaire Tested: **ARCH4-100-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840864
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: ARCH4-100-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15015 lumens
Efficiency: N/A
Efficacy: 145.6 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): 103.1
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

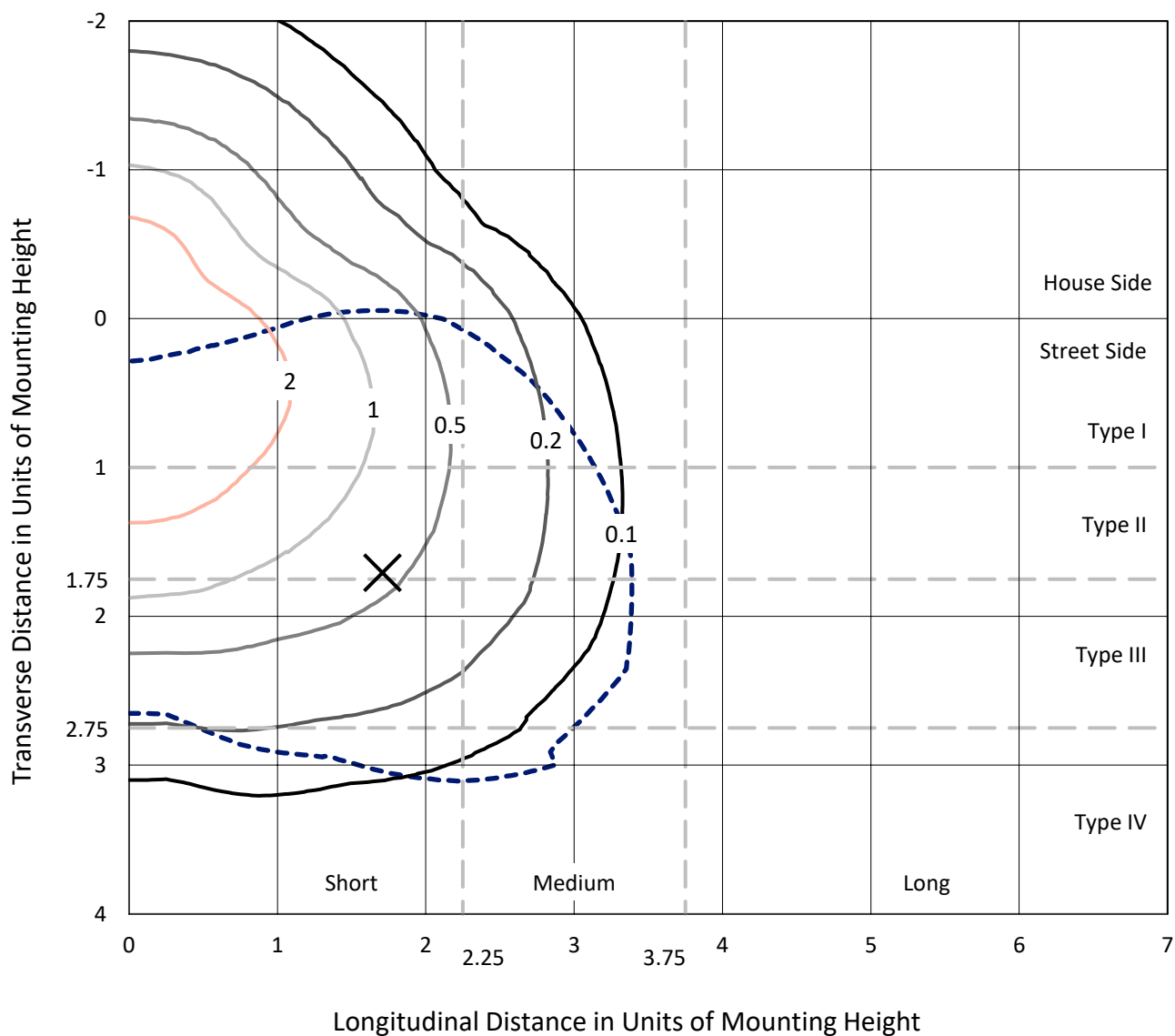


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Iso-Footcandle Lines of Horizontal Illumination

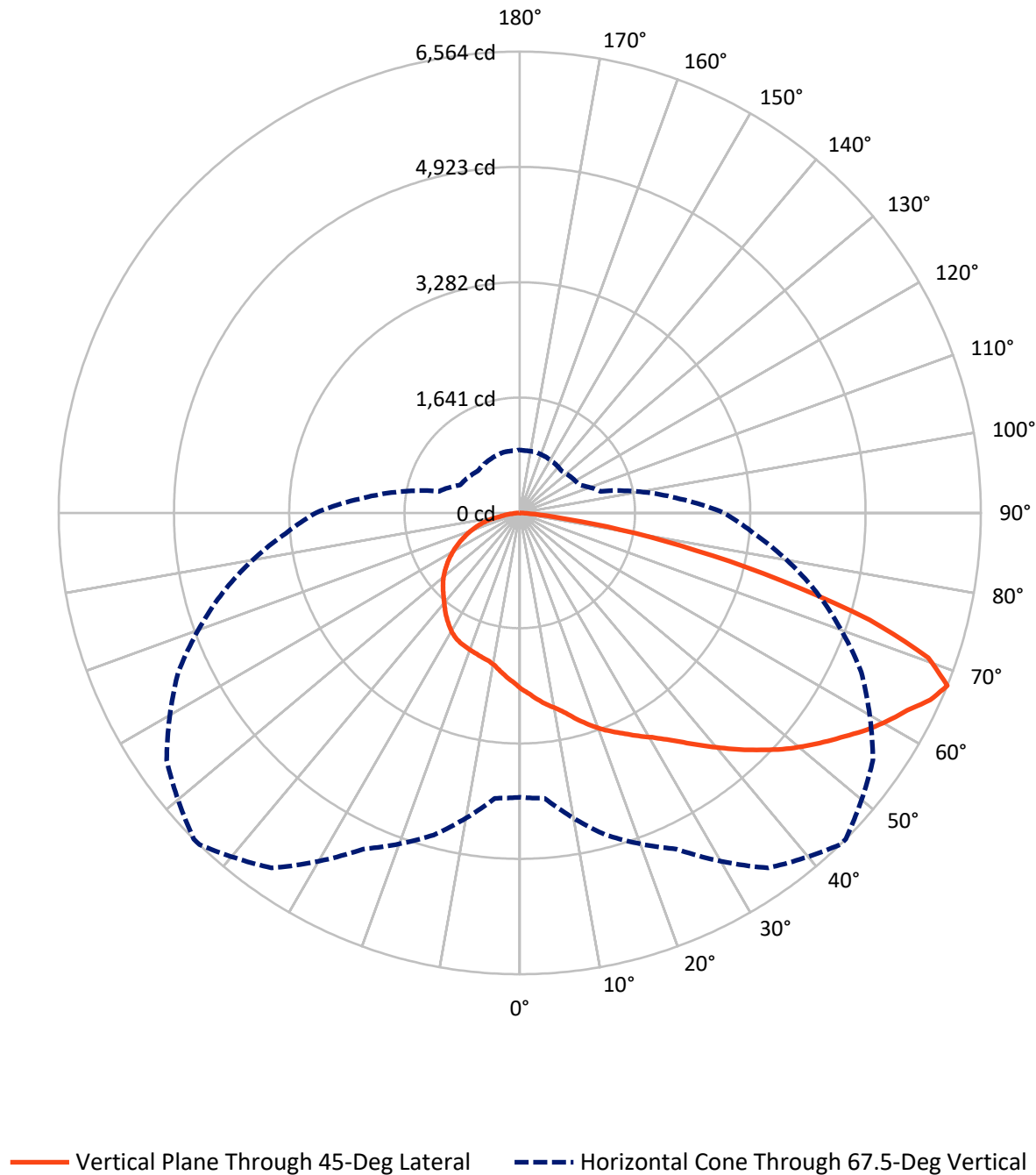
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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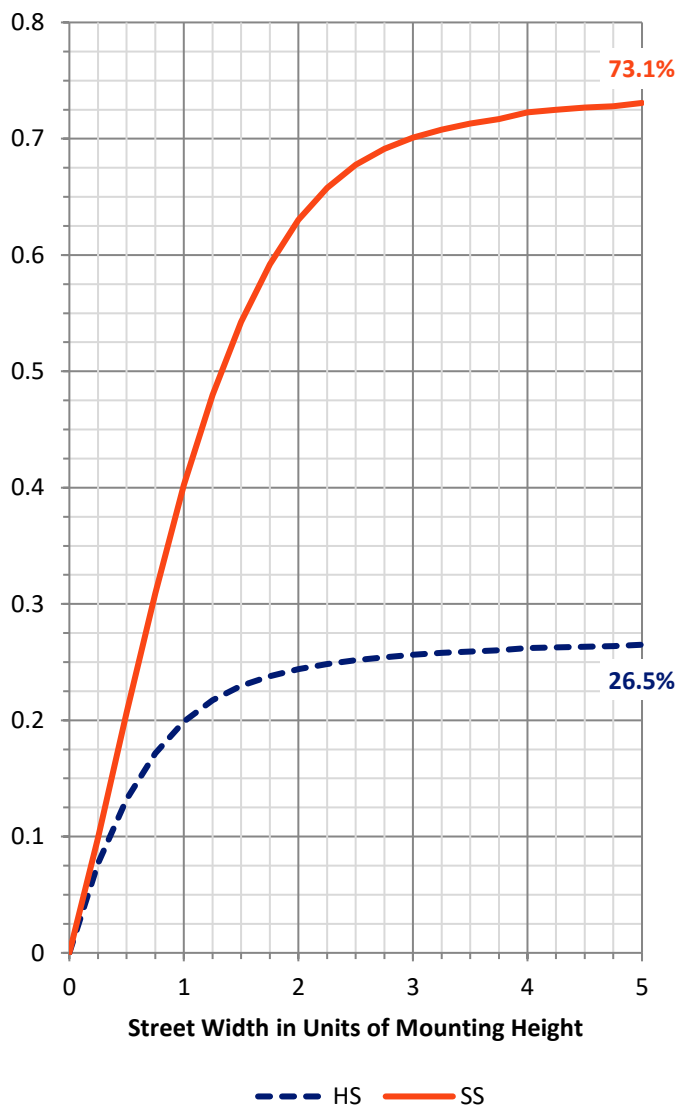
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4011.3	0.0	4011.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	11003.7	0.0	11003.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	15015.0	0.0	15015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	1.6
10°-20°	740.7	4.9
20°-30°	1278.5	8.5
30°-40°	1885.3	12.6
40°-50°	2554.2	17.0
50°-60°	3121.9	20.8
60°-70°	3219.8	21.4
70°-80°	1763.6	11.7
80°-90°	211.4	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°	15015.0	100.0
0°-180°	15015.0	100.0

Coefficient of Utilization



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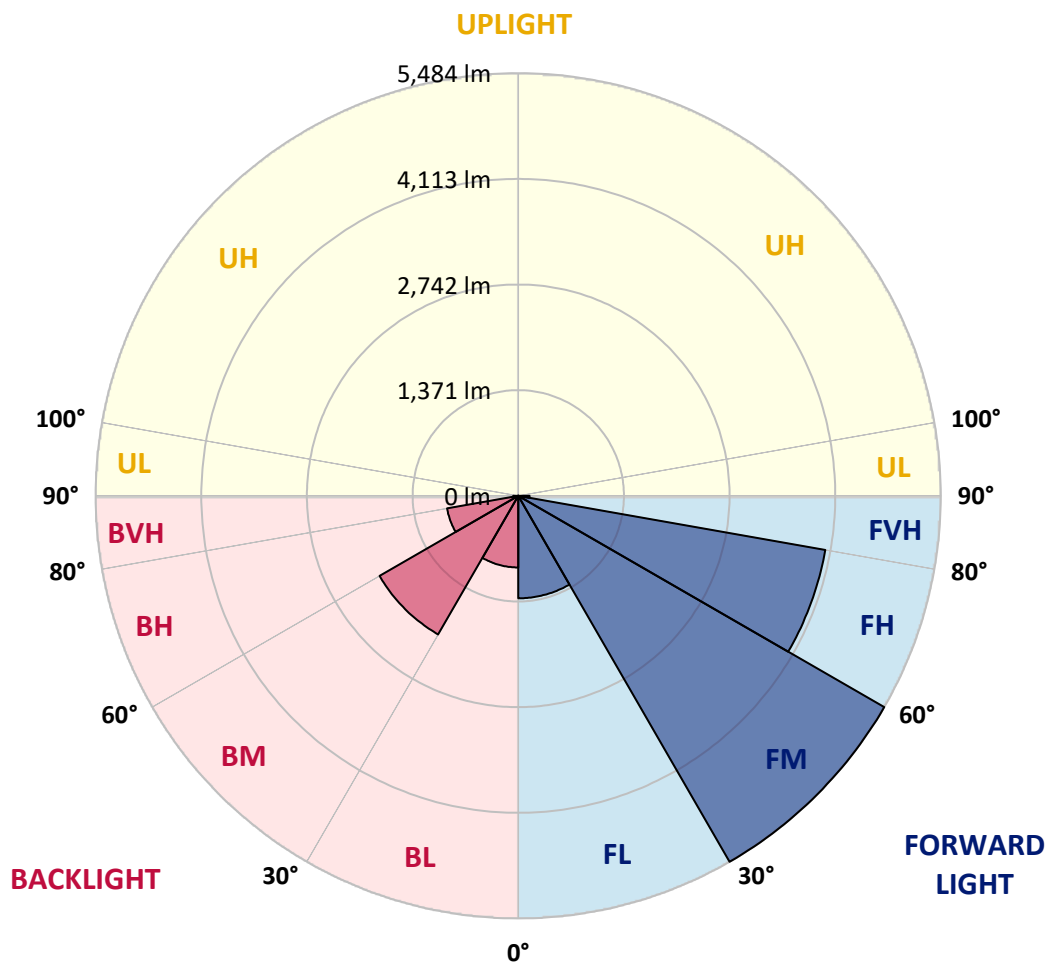
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.2	8.9			
FM	(30°-60°)	5483.6	36.5			
FH	(60°-80°)	4045.3	26.9			G2/5000
FVH	(80°-90°)	145.6	1.0			G2/225
BL	(0°-30°)	929.7	6.2	B2/1000		
BM	(30°-60°)	2077.8	13.8	B2/2500		
BH	(60°-80°)	938.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	65.8	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°	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
2.5°	2613.9	2611.6	2616.2	2600.2	2579.6	2577.3	2577.3	2563.6	2547.6	2515.6	2490.5
5°	2737.3	2732.7	2735.0	2712.1	2684.7	2671.0	2668.7	2639.0	2602.5	2552.2	2506.5
7.5°	2851.5	2846.9	2844.7	2819.5	2778.4	2755.6	2753.3	2709.9	2666.4	2588.8	2522.5
10°	2958.9	2954.3	2949.8	2915.5	2865.2	2831.0	2826.4	2771.5	2716.7	2620.7	2536.2
12.5°	3096.0	3086.9	3082.3	3041.2	2968.0	2931.5	2924.6	2851.5	2783.0	2666.4	2563.6
15°	3239.9	3233.1	3226.2	3187.4	3105.1	3057.2	3045.7	2954.3	2860.7	2725.8	2604.8
17.5°	3347.3	3340.5	3340.5	3306.2	3230.8	3176.0	3166.8	3057.2	2940.6	2780.7	2636.7
20°	3413.6	3406.7	3413.6	3393.0	3335.9	3290.2	3281.1	3160.0	3020.6	2831.0	2664.2
22.5°	3461.6	3454.7	3466.1	3457.0	3415.9	3388.5	3381.6	3262.8	3102.9	2883.5	2691.6
25°	3546.1	3546.1	3546.1	3530.1	3491.3	3482.1	3482.1	3379.3	3208.0	2952.1	2732.7
27.5°	3715.2	3706.1	3694.6	3648.9	3582.7	3580.4	3594.1	3498.1	3329.1	3041.2	2783.0
30°	3964.2	3959.7	3916.3	3820.3	3708.3	3696.9	3706.1	3626.1	3459.3	3134.8	2840.1
32.5°	4286.4	4270.4	4181.3	4037.4	3877.4	3824.9	3843.2	3758.6	3596.4	3230.8	2894.9
35°	4514.9	4519.5	4455.5	4325.3	4135.6	3996.2	4009.9	3907.1	3744.9	3338.2	2963.5
37.5°	4777.7	4793.7	4697.7	4599.4	4423.5	4185.9	4199.6	4060.2	3893.4	3473.0	3036.6
40°	5141.0	5109.0	4946.7	4830.2	4636.0	4384.7	4396.1	4231.6	4064.8	3601.0	3121.1
42.5°	5444.8	5387.7	5191.2	5042.7	4809.7	4594.9	4606.3	4416.7	4238.4	3742.6	3214.8
45°	5881.3	5723.6	5440.3	5367.2	4987.9	4800.5	4811.9	4613.2	4421.2	3893.4	3315.3
47.5°	6134.9	5883.5	5703.0	5664.2	5184.4	5013.0	5026.7	4821.1	4617.7	4064.8	3420.4
50°	6118.9	5956.7	5904.1	5808.1	5358.0	5211.8	5225.5	5035.9	4816.5	4233.9	3521.0
52.5°	6013.8	6043.5	6016.1	5856.1	5531.7	5403.7	5419.7	5248.3	5019.9	4391.5	3614.7
55°	6176.0	6196.6	6144.0	5933.8	5723.6	5595.6	5613.9	5472.3	5220.9	4530.9	3694.6
57.5°	6370.2	6297.1	6244.5	6070.9	5922.4	5803.6	5824.1	5700.7	5394.6	4642.9	3756.3
60°	6361.1	6208.0	6260.5	6080.0	6057.2	5995.5	6013.8	5888.1	5527.1	4725.1	3781.5
62.5°	5892.7	5810.4	6075.5	6013.8	6166.9	6166.9	6189.7	6002.4	5607.1	4759.4	3767.8
65°	5079.3	5083.8	5549.9	5805.9	6297.1	6402.2	6420.5	6073.2	5561.4	4658.8	3639.8
67.5°	4046.5	4076.2	4745.7	5278.0	6166.9	6562.1	6564.4	6137.2	5364.9	4375.5	3342.8
70°	2961.2	2984.0	3774.6	4421.2	5552.2	6208.0	6171.4	5956.7	4937.6	3882.0	2878.9
72.5°	2001.5	2022.1	2835.5	3395.3	4556.0	5287.2	5207.2	5264.3	4208.7	3189.7	2314.6
75°	1345.8	1370.9	2017.5	2428.8	3351.9	4014.5	3836.3	3987.1	3255.9	2415.1	1688.5
77.5°	847.7	863.7	1281.8	1592.6	2289.4	2732.7	2554.5	2556.8	1875.9	1300.1	907.1
80°	539.2	543.8	776.9	918.5	1325.2	1642.8	1453.2	1181.3	845.4	690.0	541.5
82.5°	313.0	306.2	463.8	518.7	630.6	623.8	516.4	489.0	370.1	345.0	276.5
85°	125.7	116.5	203.4	189.6	191.9	203.4	150.8	150.8	121.1	93.7	68.5
87.5°	25.1	25.1	27.4	25.1	25.1	27.4	20.6	20.6	18.3	18.3	18.3
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°	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
2.5°	2485.9	2481.4	2469.9	2440.2	2424.2	2415.1	2401.4	2396.8	2394.5	2396.8	2403.7
5°	2492.8	2476.8	2444.8	2396.8	2364.8	2344.3	2321.4	2312.3	2305.4	2305.4	2312.3
7.5°	2497.4	2472.2	2417.4	2346.6	2300.9	2268.9	2241.5	2230.0	2227.7	2234.6	2236.9
10°	2499.6	2463.1	2385.4	2296.3	2236.9	2195.8	2168.3	2161.5	2168.3	2182.1	2184.3
12.5°	2515.6	2465.4	2367.1	2262.0	2191.2	2150.1	2129.5	2129.5	2147.8	2172.9	2175.2
15°	2543.1	2481.4	2358.0	2234.6	2161.5	2124.9	2118.1	2129.5	2156.9	2195.8	2200.3
17.5°	2563.6	2490.5	2337.4	2198.0	2122.6	2099.8	2111.2	2138.6	2177.5	2230.0	2234.6
20°	2577.3	2490.5	2307.7	2154.6	2083.8	2079.2	2111.2	2154.6	2195.8	2257.5	2264.3
22.5°	2591.0	2485.9	2273.4	2102.1	2040.4	2054.1	2113.5	2168.3	2209.5	2275.7	2287.2
25°	2616.2	2492.8	2239.2	2049.5	1994.7	2033.5	2111.2	2177.5	2220.9	2289.4	2307.7
27.5°	2650.4	2508.8	2214.0	2001.5	1949.0	2001.5	2095.2	2175.2	2220.9	2287.2	2307.7
30°	2687.0	2527.1	2184.3	1949.0	1896.4	1955.8	2061.0	2150.1	2202.6	2264.3	2289.4
32.5°	2725.8	2547.6	2159.2	1891.9	1832.5	1894.2	2010.7	2111.2	2168.3	2225.5	2252.9
35°	2778.4	2584.2	2145.5	1846.2	1775.3	1830.2	1946.7	2061.0	2122.6	2175.2	2207.2
37.5°	2842.4	2629.9	2138.6	1800.5	1713.7	1759.3	1878.2	1999.3	2065.5	2108.9	2138.6
40°	2915.5	2687.0	2136.4	1757.1	1652.0	1686.2	1807.3	1928.4	1992.4	2026.7	2051.8
42.5°	2997.7	2751.0	2131.8	1713.7	1590.3	1617.7	1738.8	1857.6	1912.4	1942.1	1965.0
45°	3084.6	2815.0	2122.6	1661.1	1524.0	1556.0	1668.0	1773.1	1830.2	1855.3	1880.4
47.5°	3171.4	2878.9	2104.4	1601.7	1464.6	1494.3	1592.6	1683.9	1729.6	1752.5	1777.6
50°	3255.9	2936.1	2061.0	1533.1	1402.9	1430.3	1505.7	1567.4	1601.7	1620.0	1645.1
52.5°	3331.3	2974.9	1999.3	1453.2	1341.2	1354.9	1405.2	1457.7	1485.2	1487.5	1510.3
55°	3395.3	2995.5	1910.2	1370.9	1275.0	1277.2	1304.7	1345.8	1357.2	1348.1	1364.1
57.5°	3431.9	2984.0	1811.9	1286.4	1206.4	1197.3	1217.8	1238.4	1240.7	1217.8	1233.8
60°	3441.0	2931.5	1683.9	1201.8	1137.9	1112.7	1119.6	1115.0	1110.4	1101.3	1115.0
62.5°	3395.3	2819.5	1542.3	1119.6	1064.7	1025.9	1023.6	1021.3	1028.2	1030.5	1032.8
65°	3228.5	2609.3	1373.2	1035.0	987.1	934.5	932.2	959.6	968.8	955.1	959.6
67.5°	2906.4	2287.2	1188.1	936.8	888.8	843.1	861.4	877.4	893.4	888.8	893.4
70°	2449.4	1878.2	1019.1	827.1	781.4	756.3	776.9	790.6	792.8	788.3	792.8
72.5°	1926.1	1466.9	861.4	715.2	674.0	662.6	687.7	699.2	719.7	728.9	731.2
75°	1391.5	1083.0	706.0	594.1	559.8	559.8	582.6	603.2	621.5	610.1	603.2
77.5°	776.9	646.6	507.2	409.0	415.8	447.8	457.0	479.8	498.1	495.8	491.2
80°	470.7	404.4	342.7	265.0	262.8	287.9	347.3	386.1	395.3	374.7	372.4
82.5°	244.5	212.5	182.8	148.5	164.5	191.9	201.1	242.2	267.3	258.2	269.6
85°	61.7	59.4	66.3	68.5	84.5	93.7	102.8	121.1	80.0	38.8	38.8
87.5°	18.3	18.3	22.8	22.8	29.7	36.6	34.3	34.3	18.3	2.3	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)