

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: P835809

Luminaire Tested: **ARCH3-100-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835809
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: ARCH3-100-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

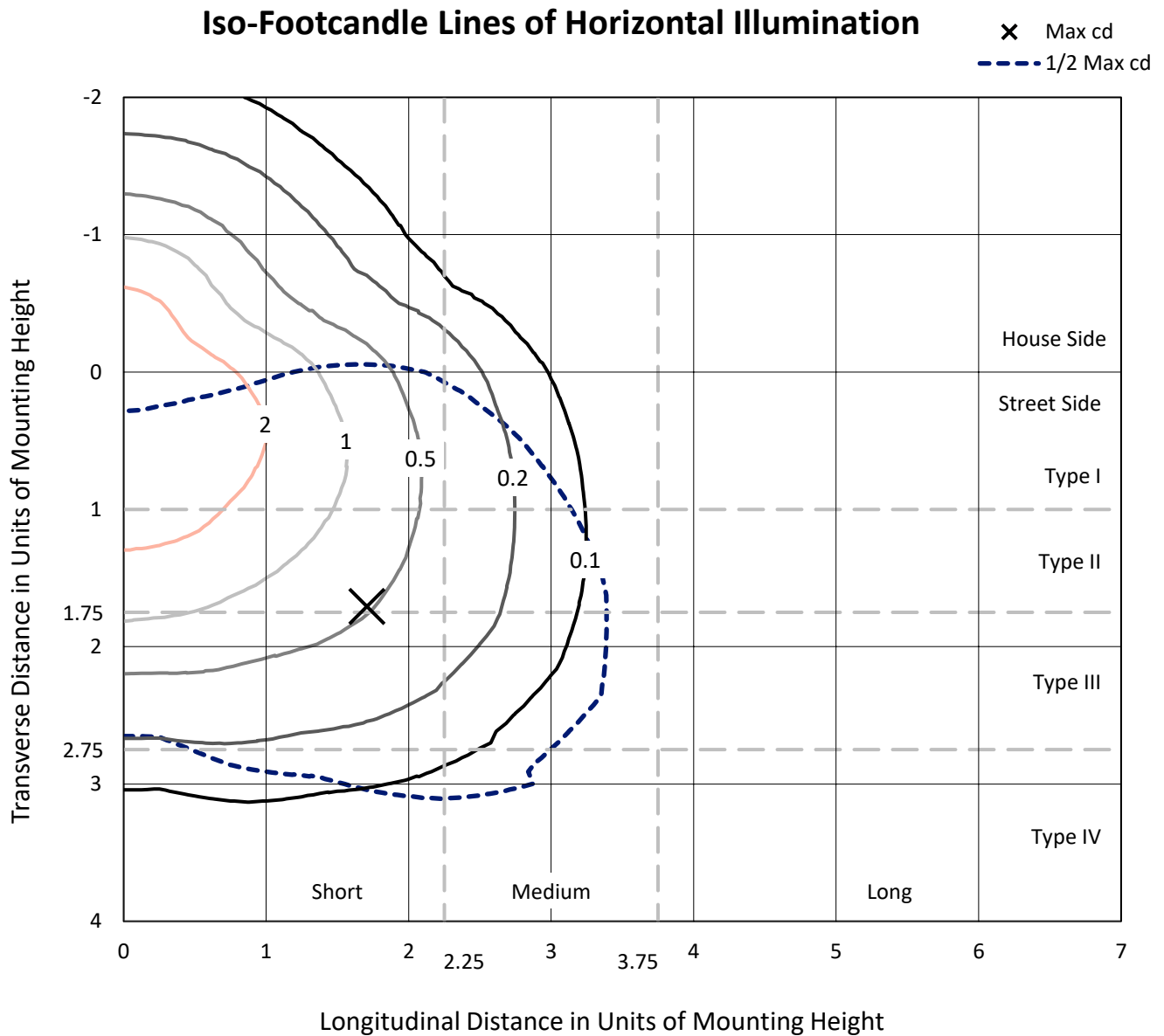
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13498 lumens
Efficiency: N/A
Efficacy: 131.6 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): 102.6
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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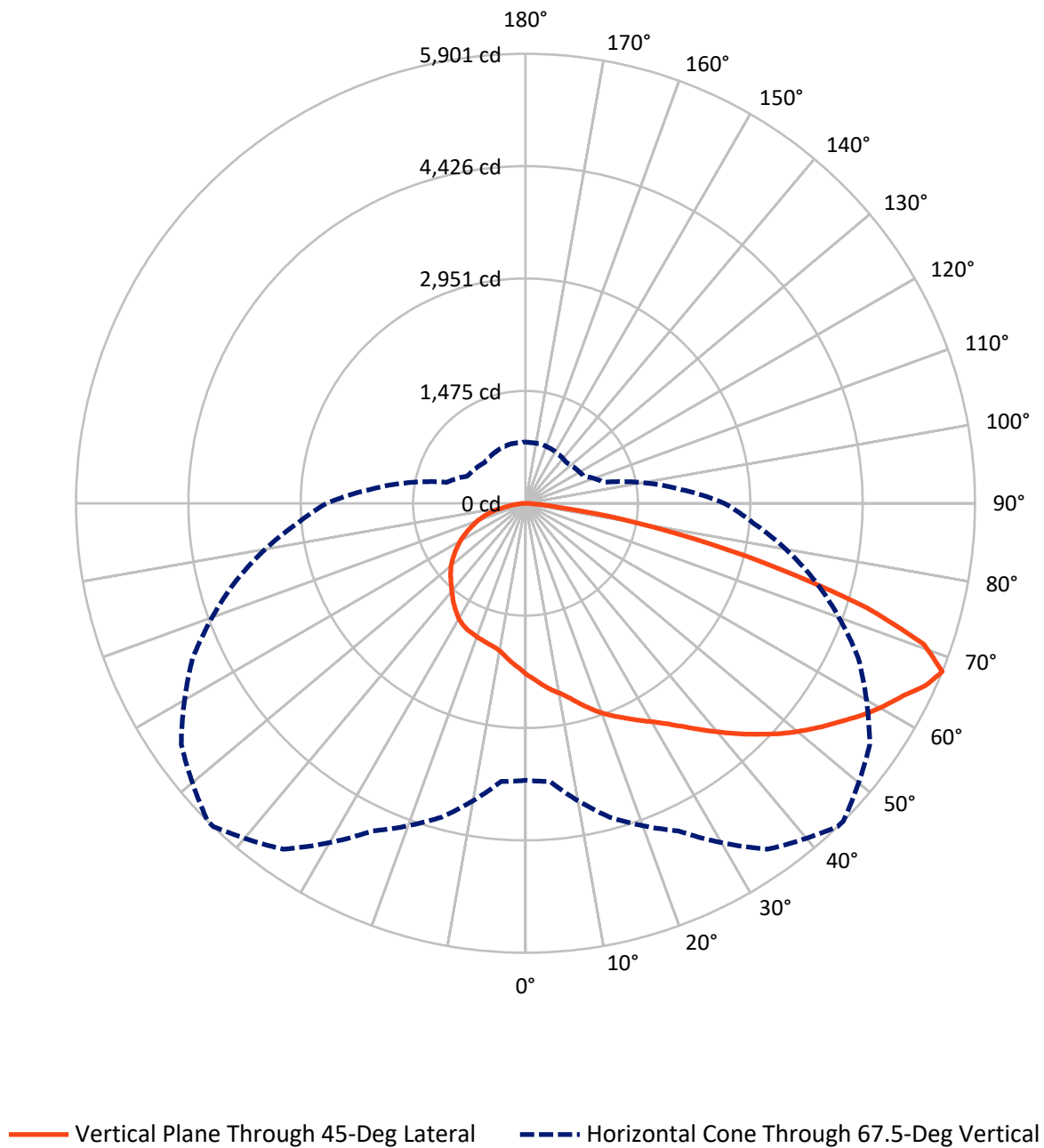


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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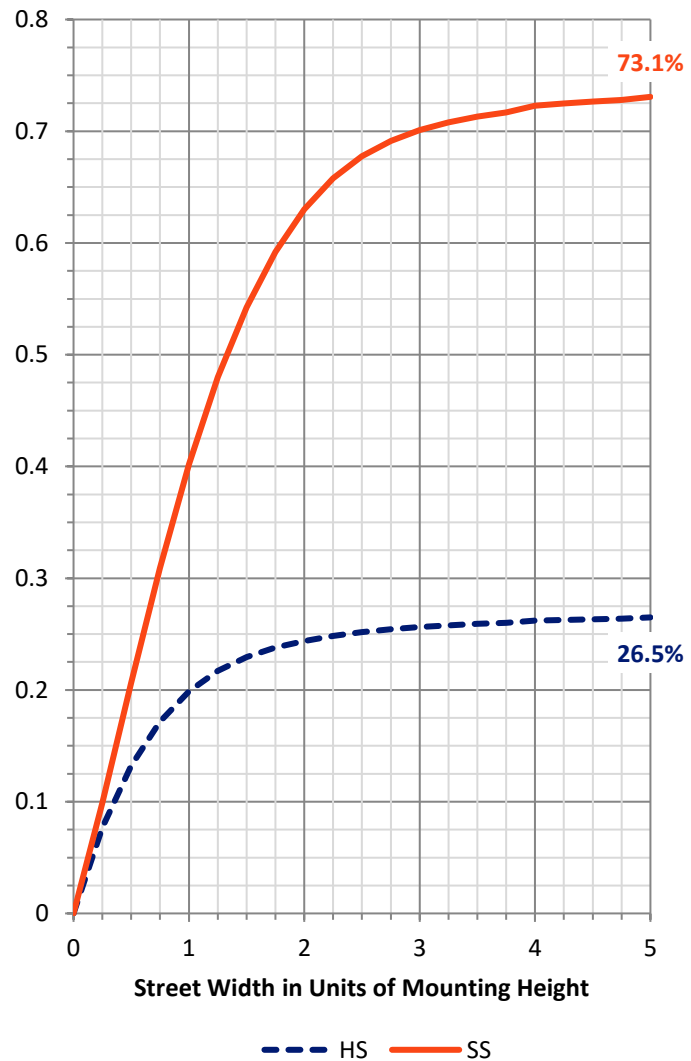
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3606.0	0.0	3606.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9892.0	0.0	9892.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	13498.0	0.0	13498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	1.6
10°-20°	665.8	4.9
20°-30°	1149.3	8.5
30°-40°	1694.8	12.6
40°-50°	2296.2	17.0
50°-60°	2806.5	20.8
60°-70°	2894.5	21.4
70°-80°	1585.4	11.7
80°-90°	190.0	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°	13498.0	100.0
0°-180°	13498.0	100.0

Coefficient of Utilization



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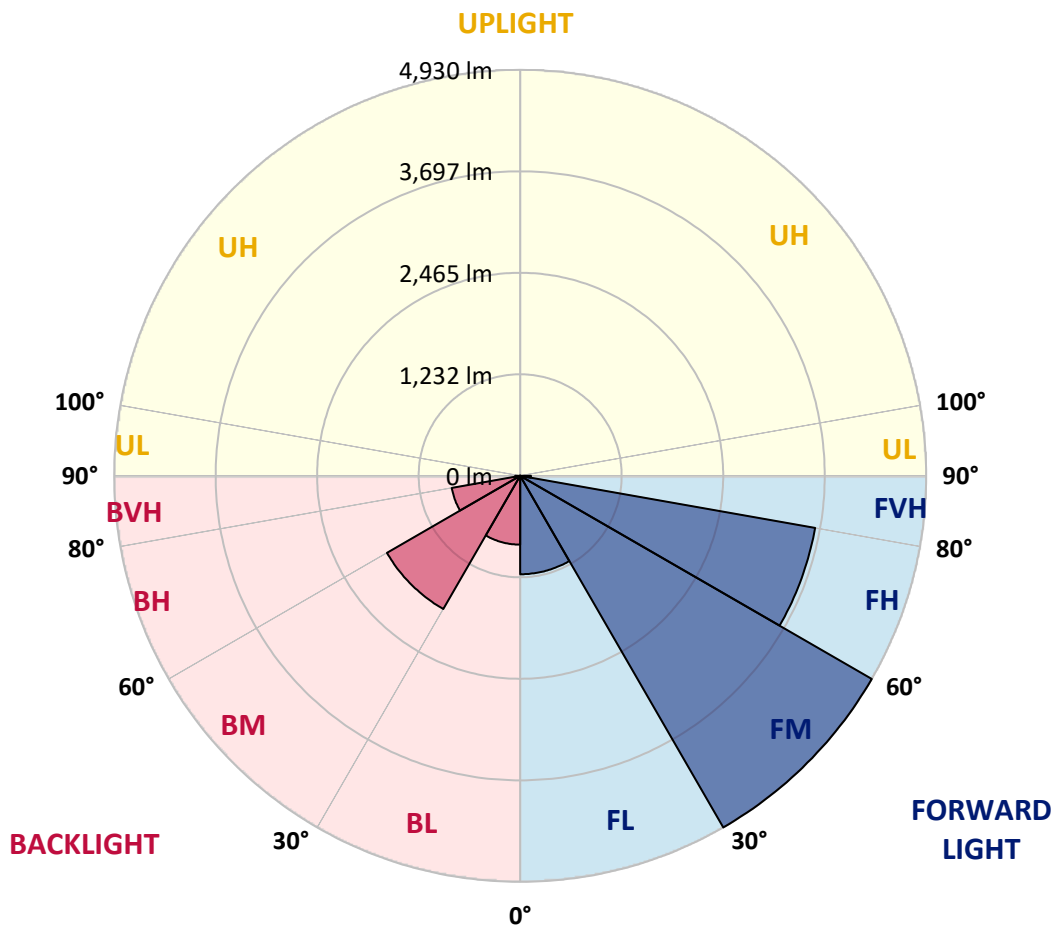
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1194.9	8.9			
FM	(30°-60°)	4929.6	36.5			
FH	(60°-80°)	3636.6	26.9			G2/5000
FVH	(80°-90°)	130.9	1.0			G2/225
BL	(0°-30°)	835.7	6.2	B2/1000		
BM	(30°-60°)	1867.8	13.8	B2/2500		
BH	(60°-80°)	843.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	59.1	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°	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2
2.5°	2349.8	2347.7	2351.9	2337.5	2319.0	2316.9	2316.9	2304.6	2290.2	2261.5	2238.9
5°	2460.7	2456.6	2458.7	2438.1	2413.5	2401.2	2399.1	2372.4	2339.5	2294.3	2253.3
7.5°	2563.4	2559.3	2557.3	2534.7	2497.7	2477.2	2475.1	2436.1	2397.0	2327.2	2267.6
10°	2660.0	2655.9	2651.7	2620.9	2575.7	2544.9	2540.8	2491.5	2442.2	2356.0	2280.0
12.5°	2783.2	2775.0	2770.9	2733.9	2668.2	2635.3	2629.2	2563.4	2501.8	2397.0	2304.6
15°	2912.6	2906.4	2900.3	2865.4	2791.4	2748.3	2738.0	2655.9	2571.6	2450.5	2341.6
17.5°	3009.1	3003.0	3003.0	2972.2	2904.4	2855.1	2846.9	2748.3	2643.5	2499.7	2370.3
20°	3068.7	3062.5	3068.7	3050.2	2998.9	2957.8	2949.6	2840.7	2715.4	2544.9	2395.0
22.5°	3111.8	3105.7	3116.0	3107.7	3070.8	3046.1	3040.0	2933.1	2789.4	2592.2	2419.6
25°	3187.8	3187.8	3187.8	3173.5	3138.5	3130.3	3130.3	3037.9	2883.8	2653.8	2456.6
27.5°	3339.8	3331.6	3321.4	3280.3	3220.7	3218.7	3231.0	3144.7	2992.7	2733.9	2501.8
30°	3563.7	3559.6	3520.6	3434.3	3333.7	3323.4	3331.6	3259.7	3109.8	2818.1	2553.2
32.5°	3853.3	3839.0	3758.9	3629.5	3485.7	3438.4	3454.9	3378.9	3233.0	2904.4	2602.4
35°	4058.8	4062.9	4005.3	3888.3	3717.8	3592.5	3604.8	3512.4	3366.5	3000.9	2664.1
37.5°	4295.0	4309.3	4223.1	4134.8	3976.6	3763.0	3775.3	3650.0	3500.1	3122.1	2729.8
40°	4621.6	4592.8	4447.0	4342.2	4167.6	3941.7	3951.9	3804.1	3654.1	3237.1	2805.8
42.5°	4894.7	4843.4	4666.7	4533.2	4323.7	4130.6	4140.9	3970.4	3810.2	3364.5	2890.0
45°	5287.1	5145.3	4890.6	4824.9	4483.9	4315.5	4325.8	4147.1	3974.5	3500.1	2980.4
47.5°	5515.1	5289.1	5126.8	5091.9	4660.6	4506.5	4518.9	4334.0	4151.2	3654.1	3074.9
50°	5500.7	5354.8	5307.6	5221.3	4816.7	4685.2	4697.6	4527.1	4329.9	3806.1	3165.3
52.5°	5406.2	5432.9	5408.2	5264.5	4972.8	4857.8	4872.1	4718.1	4512.7	3947.8	3249.5
55°	5552.0	5570.5	5523.3	5334.3	5145.3	5030.3	5046.7	4919.4	4693.4	4073.1	3321.4
57.5°	5726.6	5660.9	5613.6	5457.5	5324.0	5217.2	5235.7	5124.8	4849.6	4173.8	3376.8
60°	5718.4	5580.8	5628.0	5465.8	5445.2	5389.8	5406.2	5293.2	4968.7	4247.7	3399.4
62.5°	5297.3	5223.4	5461.7	5406.2	5543.8	5543.8	5564.4	5395.9	5040.6	4278.5	3387.1
65°	4566.1	4570.2	4989.2	5219.3	5660.9	5755.4	5771.8	5459.6	4999.5	4188.2	3272.1
67.5°	3637.7	3664.4	4266.2	4744.8	5543.8	5899.2	5901.2	5517.1	4822.8	3933.5	3005.0
70°	2662.0	2682.6	3393.2	3974.5	4991.3	5580.8	5547.9	5354.8	4438.7	3489.8	2588.1
72.5°	1799.3	1817.8	2549.0	3052.3	4095.7	4753.0	4681.1	4732.5	3783.5	2867.4	2080.7
75°	1209.8	1232.4	1813.7	2183.4	3013.3	3608.9	3448.7	3584.3	2927.0	2171.1	1517.9
77.5°	762.0	776.4	1152.3	1431.7	2058.1	2456.6	2296.4	2298.5	1686.4	1168.7	815.4
80°	484.7	488.9	698.4	825.7	1191.3	1476.8	1306.4	1061.9	760.0	620.3	486.8
82.5°	281.4	275.2	417.0	466.3	566.9	560.7	464.2	439.6	332.8	310.2	248.5
85°	113.0	104.8	182.8	170.5	172.5	182.8	135.6	135.6	108.9	84.2	61.6
87.5°	22.6	22.6	24.6	22.6	22.6	24.6	18.5	18.5	16.4	16.4	16.4
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°	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2	2251.2
2.5°	2234.8	2230.7	2220.4	2193.7	2179.3	2171.1	2158.8	2154.7	2152.6	2154.7	2160.8
5°	2240.9	2226.6	2197.8	2154.7	2125.9	2107.4	2086.9	2078.7	2072.5	2072.5	2078.7
7.5°	2245.0	2222.5	2173.2	2109.5	2068.4	2039.6	2015.0	2004.7	2002.7	2008.8	2010.9
10°	2247.1	2214.2	2144.4	2064.3	2010.9	1973.9	1949.3	1943.1	1949.3	1961.6	1963.6
12.5°	2261.5	2216.3	2128.0	2033.5	1969.8	1932.8	1914.4	1914.4	1930.8	1953.4	1955.4
15°	2286.1	2230.7	2119.8	2008.8	1943.1	1910.2	1904.1	1914.4	1939.0	1973.9	1978.0
17.5°	2304.6	2238.9	2101.3	1976.0	1908.2	1887.6	1897.9	1922.6	1957.5	2004.7	2008.8
20°	2316.9	2238.9	2074.6	1936.9	1873.3	1869.2	1897.9	1936.9	1973.9	2029.4	2035.5
22.5°	2329.3	2234.8	2043.8	1889.7	1834.2	1846.6	1900.0	1949.3	1986.2	2045.8	2056.1
25°	2351.9	2240.9	2012.9	1842.5	1793.2	1828.1	1897.9	1957.5	1996.5	2058.1	2074.6
27.5°	2382.7	2255.3	1990.3	1799.3	1752.1	1799.3	1883.5	1955.4	1996.5	2056.1	2074.6
30°	2415.5	2271.8	1963.6	1752.1	1704.8	1758.2	1852.7	1932.8	1980.1	2035.5	2058.1
32.5°	2450.5	2290.2	1941.1	1700.7	1647.3	1702.8	1807.5	1897.9	1949.3	2000.6	2025.3
35°	2497.7	2323.1	1928.7	1659.7	1596.0	1645.3	1750.0	1852.7	1908.2	1955.4	1984.2
37.5°	2555.2	2364.2	1922.6	1618.6	1540.5	1581.6	1688.4	1797.3	1856.8	1895.9	1922.6
40°	2620.9	2415.5	1920.5	1579.5	1485.1	1515.9	1624.7	1733.6	1791.1	1821.9	1844.5
42.5°	2694.9	2473.0	1916.4	1540.5	1429.6	1454.2	1563.1	1669.9	1719.2	1745.9	1766.5
45°	2772.9	2530.6	1908.2	1493.3	1370.0	1398.8	1499.4	1593.9	1645.3	1667.9	1690.5
47.5°	2851.0	2588.1	1891.8	1439.9	1316.6	1343.3	1431.7	1513.8	1554.9	1575.4	1598.0
50°	2927.0	2639.4	1852.7	1378.3	1261.2	1285.8	1353.6	1409.1	1439.9	1456.3	1478.9
52.5°	2994.8	2674.3	1797.3	1306.4	1205.7	1218.0	1263.2	1310.5	1335.1	1337.2	1357.7
55°	3052.3	2692.8	1717.2	1232.4	1146.1	1148.2	1172.8	1209.8	1220.1	1211.9	1226.3
57.5°	3085.1	2682.6	1628.8	1156.4	1084.5	1076.3	1094.8	1113.3	1115.3	1094.8	1109.2
60°	3093.4	2635.3	1513.8	1080.4	1022.9	1000.3	1006.5	1002.4	998.3	990.0	1002.4
62.5°	3052.3	2534.7	1386.5	1006.5	957.2	922.3	920.2	918.1	924.3	926.4	928.4
65°	2902.3	2345.7	1234.5	930.5	887.3	840.1	838.0	862.7	870.9	858.6	862.7
67.5°	2612.7	2056.1	1068.1	842.1	799.0	757.9	774.4	788.7	803.1	799.0	803.1
70°	2201.9	1688.4	916.1	743.6	702.5	679.9	698.4	710.7	712.7	708.6	712.7
72.5°	1731.5	1318.7	774.4	642.9	605.9	595.7	618.3	628.5	647.0	655.2	657.3
75°	1250.9	973.6	634.7	534.0	503.2	503.2	523.8	542.3	558.7	548.4	542.3
77.5°	698.4	581.3	456.0	367.7	373.8	402.6	410.8	431.3	447.8	445.7	441.6
80°	423.1	363.6	308.1	238.3	236.2	258.8	312.2	347.1	355.3	336.9	334.8
82.5°	219.8	191.0	164.3	133.5	147.9	172.5	180.8	217.7	240.3	232.1	242.4
85°	55.5	53.4	59.6	61.6	76.0	84.2	92.4	108.9	71.9	34.9	34.9
87.5°	16.4	16.4	20.5	20.5	26.7	32.9	30.8	30.8	16.4	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)