

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: P836790

Luminaire Tested: **ARCH3-70-750-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836790
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: ARCH3-70-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12141 lumens
Efficiency: N/A
Efficacy: 166.1 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): 73.1
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



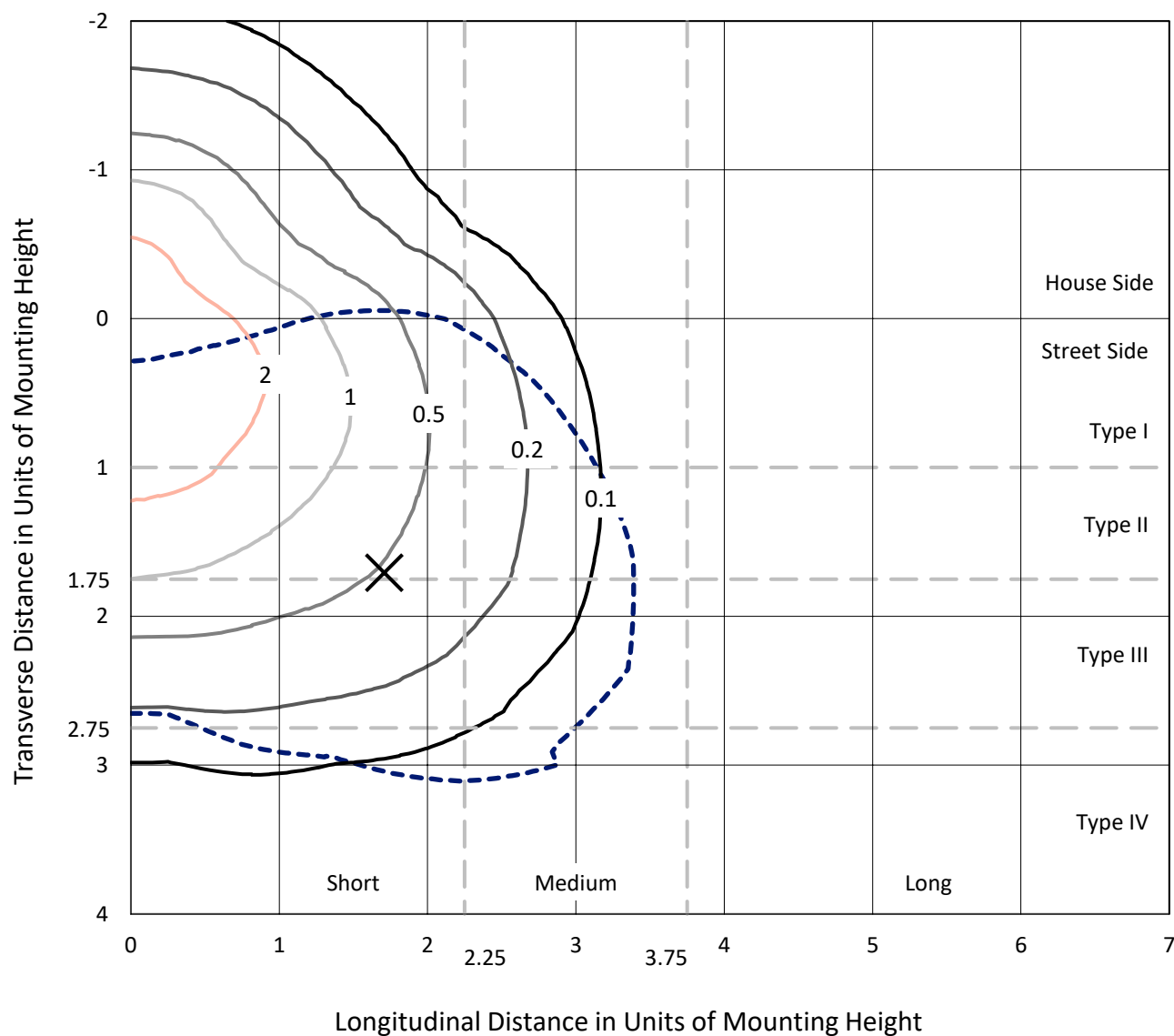
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

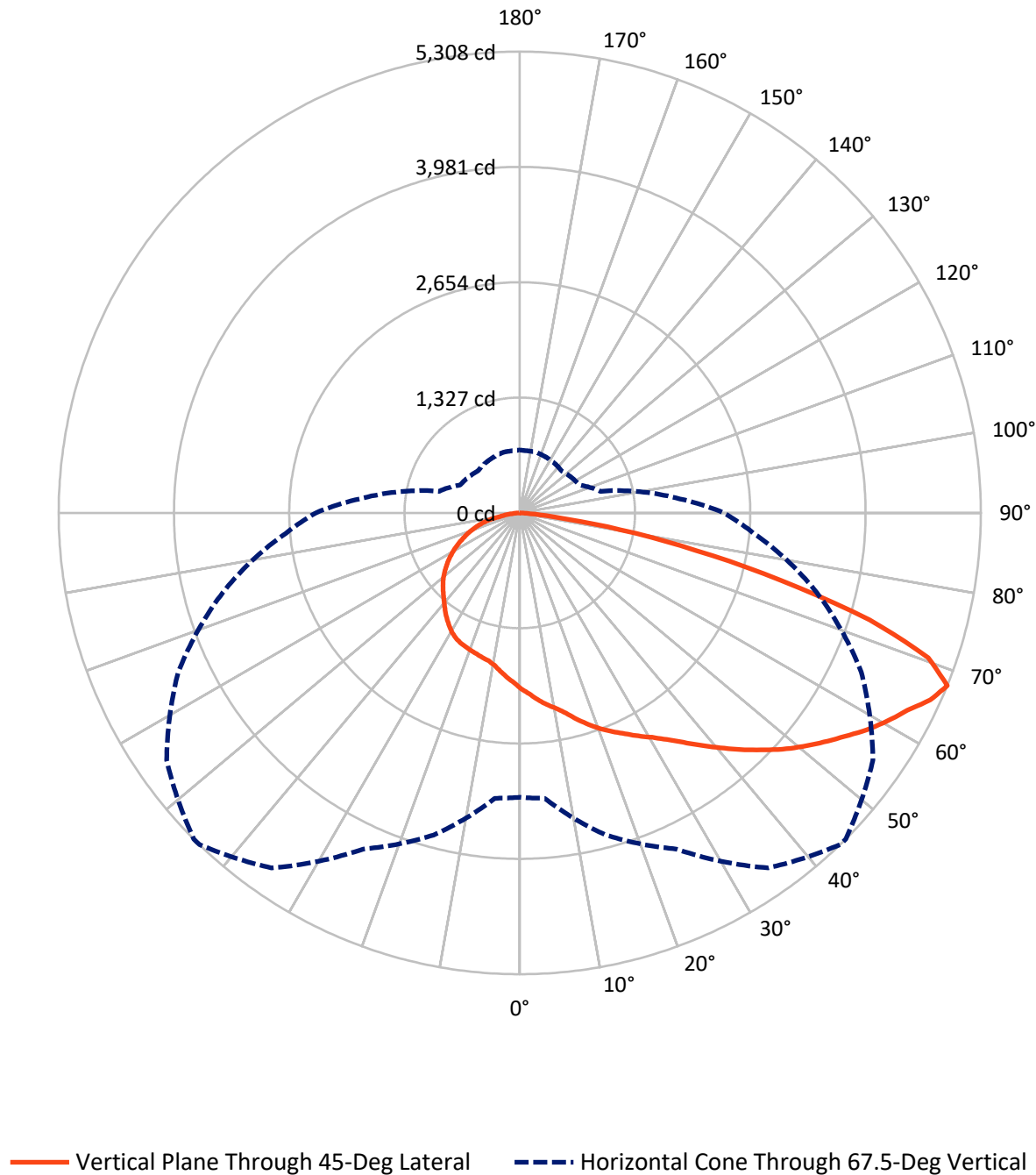


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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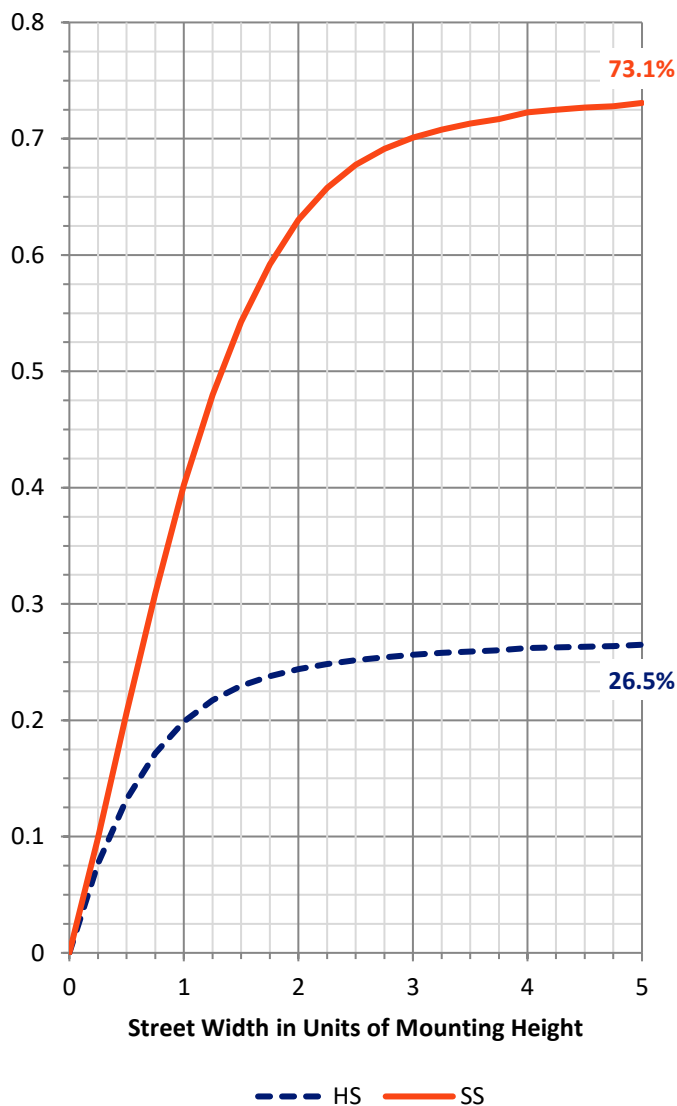
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3243.5	0.0	3243.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8897.5	0.0	8897.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	12141.0	0.0	12141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.6
10°-20°	598.9	4.9
20°-30°	1033.8	8.5
30°-40°	1524.4	12.6
40°-50°	2065.3	17.0
50°-60°	2524.3	20.8
60°-70°	2603.5	21.4
70°-80°	1426.0	11.7
80°-90°	170.9	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°	12141.0	100.0
0°-180°	12141.0	100.0

Coefficient of Utilization



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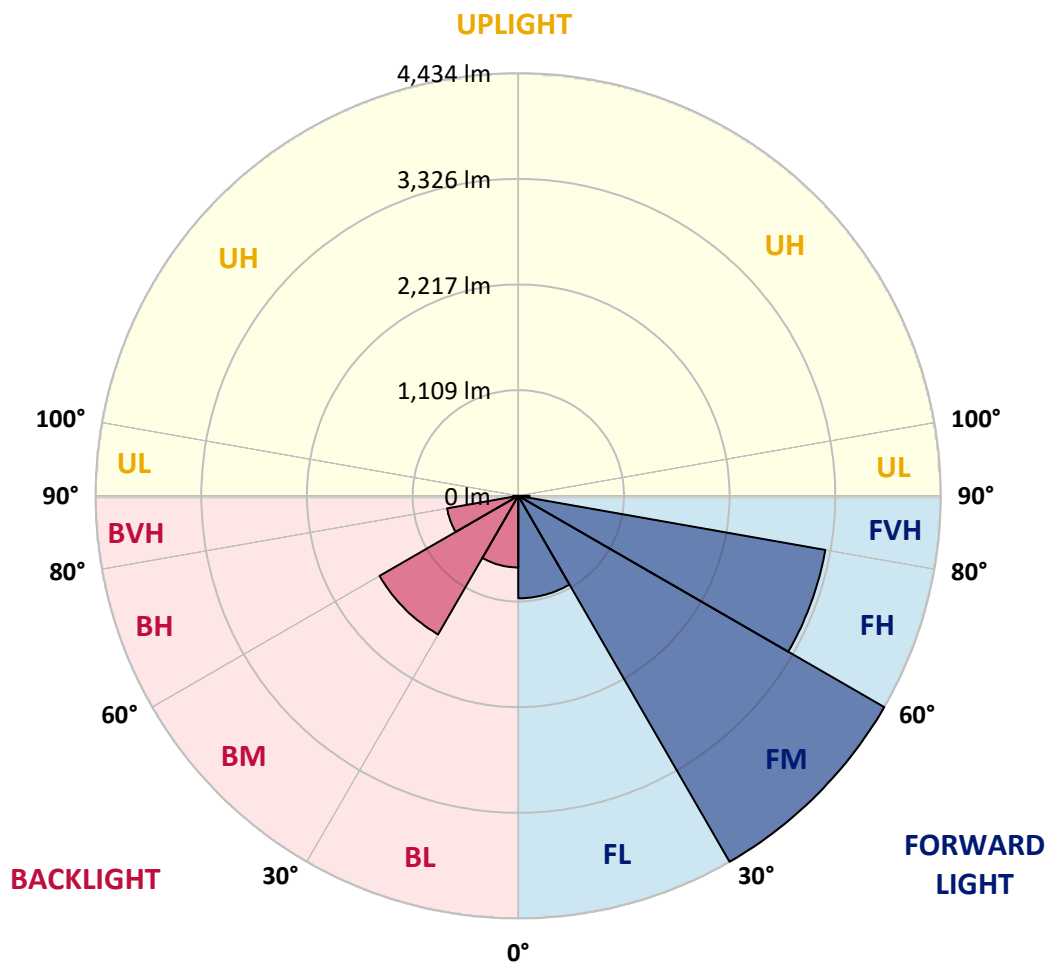
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1074.8	8.9			
FM	(30°-60°)	4434.0	36.5			
FH	(60°-80°)	3271.0	26.9			G2/5000
FVH	(80°-90°)	117.7	1.0			G2/225
BL	(0°-30°)	751.7	6.2	B2/1000		
BM	(30°-60°)	1680.1	13.8	B2/2500		
BH	(60°-80°)	758.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	53.2	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°	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9
2.5°	2113.6	2111.7	2115.4	2102.5	2085.9	2084.0	2084.0	2072.9	2060.0	2034.1	2013.8
5°	2213.3	2209.6	2211.5	2193.0	2170.8	2159.8	2157.9	2133.9	2104.3	2063.7	2026.7
7.5°	2305.7	2302.0	2300.2	2279.8	2246.6	2228.1	2226.3	2191.2	2156.1	2093.2	2039.7
10°	2392.5	2388.9	2385.2	2357.4	2316.8	2289.1	2285.4	2241.0	2196.7	2119.1	2050.8
12.5°	2503.4	2496.0	2492.3	2459.1	2399.9	2370.4	2364.8	2305.7	2250.3	2156.1	2072.9
15°	2619.8	2614.2	2608.7	2577.3	2510.8	2472.0	2462.8	2388.9	2313.1	2204.1	2106.2
17.5°	2706.6	2701.1	2701.1	2673.4	2612.4	2568.1	2560.7	2472.0	2377.8	2248.4	2132.0
20°	2760.2	2754.7	2760.2	2743.6	2697.4	2660.4	2653.0	2555.1	2442.4	2289.1	2154.2
22.5°	2799.0	2793.5	2802.7	2795.3	2762.1	2739.9	2734.3	2638.3	2508.9	2331.6	2176.4
25°	2867.4	2867.4	2867.4	2854.4	2823.0	2815.6	2815.6	2732.5	2593.9	2387.0	2209.6
27.5°	3004.1	2996.7	2987.4	2950.5	2896.9	2895.1	2906.2	2828.6	2691.8	2459.1	2250.3
30°	3205.5	3201.8	3166.7	3089.1	2998.5	2989.3	2996.7	2932.0	2797.2	2534.8	2296.5
32.5°	3466.0	3453.0	3381.0	3264.6	3135.3	3092.8	3107.5	3039.2	2908.0	2612.4	2340.8
35°	3650.7	3654.4	3602.7	3497.4	3344.0	3231.3	3242.4	3159.3	3028.1	2699.2	2396.2
37.5°	3863.2	3876.1	3798.5	3719.1	3576.8	3384.7	3395.8	3283.1	3148.2	2808.2	2455.4
40°	4156.9	4131.1	3999.9	3905.7	3748.6	3545.4	3554.6	3421.6	3286.7	2911.7	2523.7
42.5°	4402.7	4356.5	4197.6	4077.5	3889.0	3715.4	3724.6	3571.3	3427.2	3026.2	2599.5
45°	4755.5	4628.1	4399.0	4339.8	4033.1	3881.7	3890.9	3730.2	3575.0	3148.2	2680.8
47.5°	4960.6	4757.4	4611.4	4580.0	4192.0	4053.5	4064.6	3898.3	3733.9	3286.7	2765.7
50°	4947.7	4816.5	4774.0	4696.4	4332.4	4214.2	4225.3	4071.9	3894.6	3423.5	2847.0
52.5°	4862.7	4886.7	4864.5	4735.2	4472.9	4369.4	4382.3	4243.8	4059.0	3550.9	2922.8
55°	4993.9	5010.5	4968.0	4798.0	4628.1	4524.6	4539.4	4424.8	4221.6	3663.6	2987.4
57.5°	5150.9	5091.8	5049.3	4908.9	4788.8	4692.7	4709.3	4609.6	4362.0	3754.2	3037.3
60°	5143.5	5019.7	5062.2	4916.3	4897.8	4847.9	4862.7	4761.1	4469.2	3820.7	3057.7
62.5°	4764.8	4698.3	4912.6	4862.7	4986.5	4986.5	5004.9	4853.5	4533.8	3848.4	3046.6
65°	4107.1	4110.7	4487.6	4694.6	5091.8	5176.8	5191.5	4910.7	4496.9	3767.1	2943.1
67.5°	3272.0	3296.0	3837.3	4267.8	4986.5	5306.1	5307.9	4962.5	4338.0	3538.0	2702.9
70°	2394.4	2412.9	3052.1	3575.0	4489.5	5019.7	4990.2	4816.5	3992.5	3138.9	2327.9
72.5°	1618.4	1635.1	2292.8	2745.4	3684.0	4275.2	4210.5	4256.7	3403.1	2579.1	1871.5
75°	1088.2	1108.5	1631.4	1963.9	2710.3	3246.1	3102.0	3223.9	2632.7	1952.8	1365.3
77.5°	685.4	698.4	1036.5	1287.7	1851.2	2209.6	2065.5	2067.4	1516.8	1051.2	733.5
80°	436.0	439.7	628.2	742.7	1071.6	1328.4	1175.0	955.2	683.6	558.0	437.9
82.5°	253.1	247.6	375.0	419.4	509.9	504.4	417.5	395.4	299.3	279.0	223.6
85°	101.6	94.2	164.4	153.3	155.2	164.4	121.9	121.9	97.9	75.7	55.4
87.5°	20.3	20.3	22.2	20.3	20.3	22.2	16.6	16.6	14.8	14.8	14.8
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°	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9	2024.9
2.5°	2010.1	2006.4	1997.2	1973.2	1960.2	1952.8	1941.7	1938.1	1936.2	1938.1	1943.6
5°	2015.7	2002.7	1976.9	1938.1	1912.2	1895.6	1877.1	1869.7	1864.2	1864.2	1869.7
7.5°	2019.3	1999.0	1954.7	1897.4	1860.5	1834.6	1812.4	1803.2	1801.3	1806.9	1808.7
10°	2021.2	1991.6	1928.8	1856.8	1808.7	1775.5	1753.3	1747.8	1753.3	1764.4	1766.2
12.5°	2034.1	1993.5	1914.0	1829.1	1771.8	1738.5	1721.9	1721.9	1736.7	1757.0	1758.8
15°	2056.3	2006.4	1906.6	1806.9	1747.8	1718.2	1712.7	1721.9	1744.1	1775.5	1779.2
17.5°	2072.9	2013.8	1890.0	1777.3	1716.4	1697.9	1707.1	1729.3	1760.7	1803.2	1806.9
20°	2084.0	2013.8	1866.0	1742.2	1684.9	1681.2	1707.1	1742.2	1775.5	1825.4	1830.9
22.5°	2095.1	2010.1	1838.3	1699.7	1649.8	1660.9	1709.0	1753.3	1786.6	1840.1	1849.4
25°	2115.4	2015.7	1810.6	1657.2	1612.9	1644.3	1707.1	1760.7	1795.8	1851.2	1866.0
27.5°	2143.1	2028.6	1790.3	1618.4	1575.9	1618.4	1694.2	1758.8	1795.8	1849.4	1866.0
30°	2172.7	2043.4	1766.2	1575.9	1533.4	1581.5	1666.5	1738.5	1781.0	1830.9	1851.2
32.5°	2204.1	2060.0	1745.9	1529.8	1481.7	1531.6	1625.8	1707.1	1753.3	1799.5	1821.7
35°	2246.6	2089.6	1734.8	1492.8	1435.5	1479.9	1574.1	1666.5	1716.4	1758.8	1784.7
37.5°	2298.3	2126.5	1729.3	1455.9	1385.6	1422.6	1518.7	1616.6	1670.2	1705.3	1729.3
40°	2357.4	2172.7	1727.4	1420.7	1335.8	1363.5	1461.4	1559.3	1611.0	1638.8	1659.1
42.5°	2424.0	2224.4	1723.7	1385.6	1285.9	1308.0	1406.0	1502.0	1546.4	1570.4	1588.9
45°	2494.2	2276.2	1716.4	1343.2	1232.3	1258.2	1348.7	1433.7	1479.9	1500.2	1520.5
47.5°	2564.4	2327.9	1701.6	1295.1	1184.3	1208.3	1287.7	1361.6	1398.6	1417.1	1437.4
50°	2632.7	2374.1	1666.5	1239.7	1134.4	1156.6	1217.5	1267.4	1295.1	1309.9	1330.2
52.5°	2693.7	2405.5	1616.6	1175.0	1084.5	1095.6	1136.2	1178.7	1200.9	1202.7	1221.2
55°	2745.4	2422.1	1544.5	1108.5	1030.9	1032.8	1054.9	1088.2	1097.4	1090.0	1103.0
57.5°	2775.0	2412.9	1465.1	1040.2	975.5	968.1	984.7	1001.4	1003.2	984.7	997.7
60°	2782.4	2370.4	1361.6	971.8	920.1	899.7	905.3	901.6	897.9	890.5	901.6
62.5°	2745.4	2279.8	1247.1	905.3	860.9	829.5	827.7	825.8	831.4	833.2	835.1
65°	2610.6	2109.9	1110.4	836.9	798.1	755.6	753.8	776.0	783.4	772.3	776.0
67.5°	2350.1	1849.4	960.7	757.5	718.7	681.7	696.5	709.4	722.4	718.7	722.4
70°	1980.5	1518.7	824.0	668.8	631.9	611.5	628.2	639.2	641.1	637.4	641.1
72.5°	1557.5	1186.1	696.5	578.3	545.0	535.8	556.1	565.3	582.0	589.4	591.2
75°	1125.1	875.7	570.9	480.4	452.6	452.6	471.1	487.7	502.5	493.3	487.7
77.5°	628.2	522.8	410.2	330.7	336.2	362.1	369.5	388.0	402.8	400.9	397.2
80°	380.6	327.0	277.1	214.3	212.5	232.8	280.8	312.2	319.6	303.0	301.1
82.5°	197.7	171.8	147.8	120.1	133.0	155.2	162.6	195.8	216.2	208.8	218.0
85°	49.9	48.0	53.6	55.4	68.4	75.7	83.1	97.9	64.7	31.4	31.4
87.5°	14.8	14.8	18.5	18.5	24.0	29.6	27.7	27.7	14.8	1.8	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)