

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: P836752

Luminaire Tested: **ARCH3-70-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

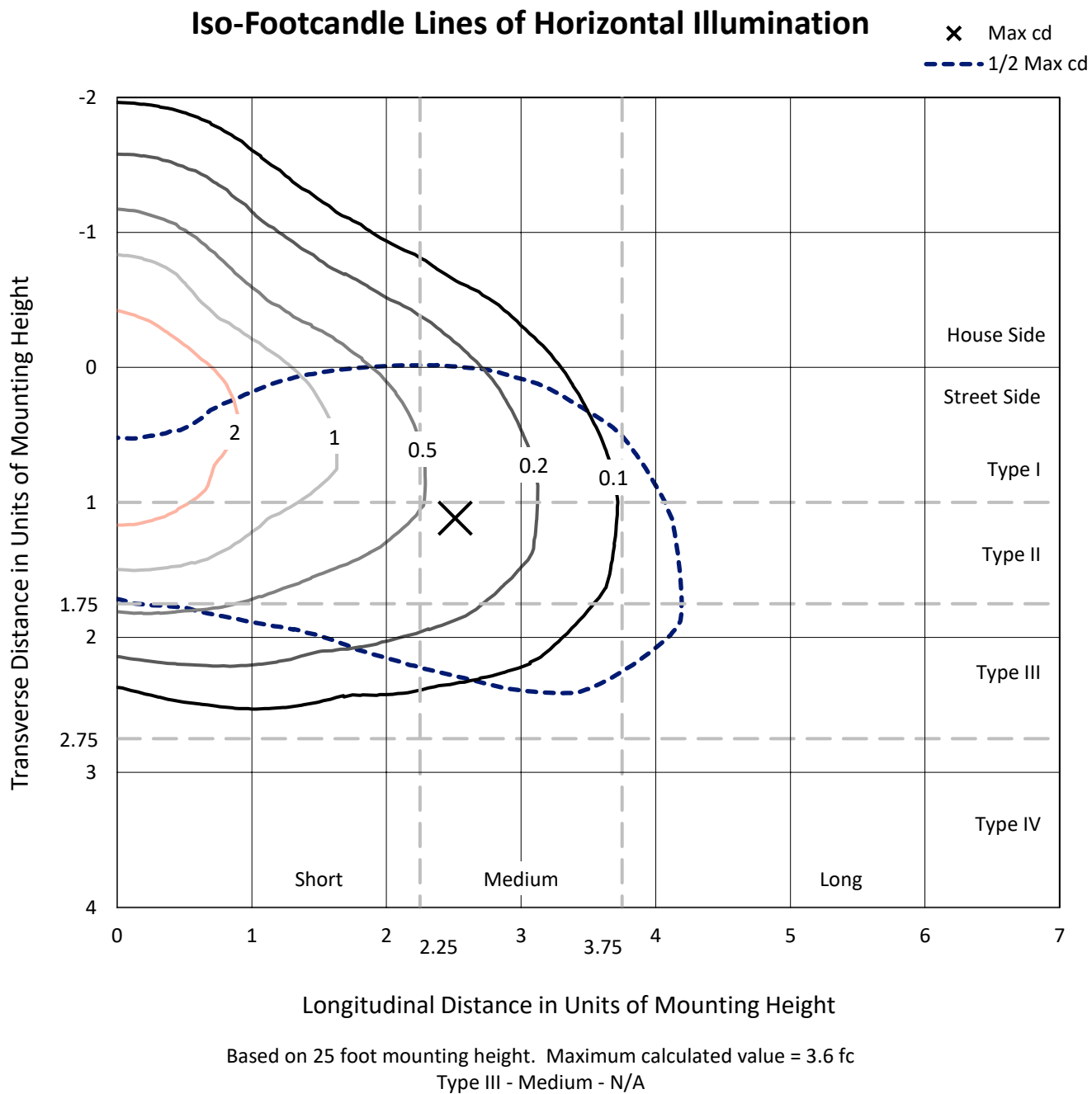
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11446 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
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

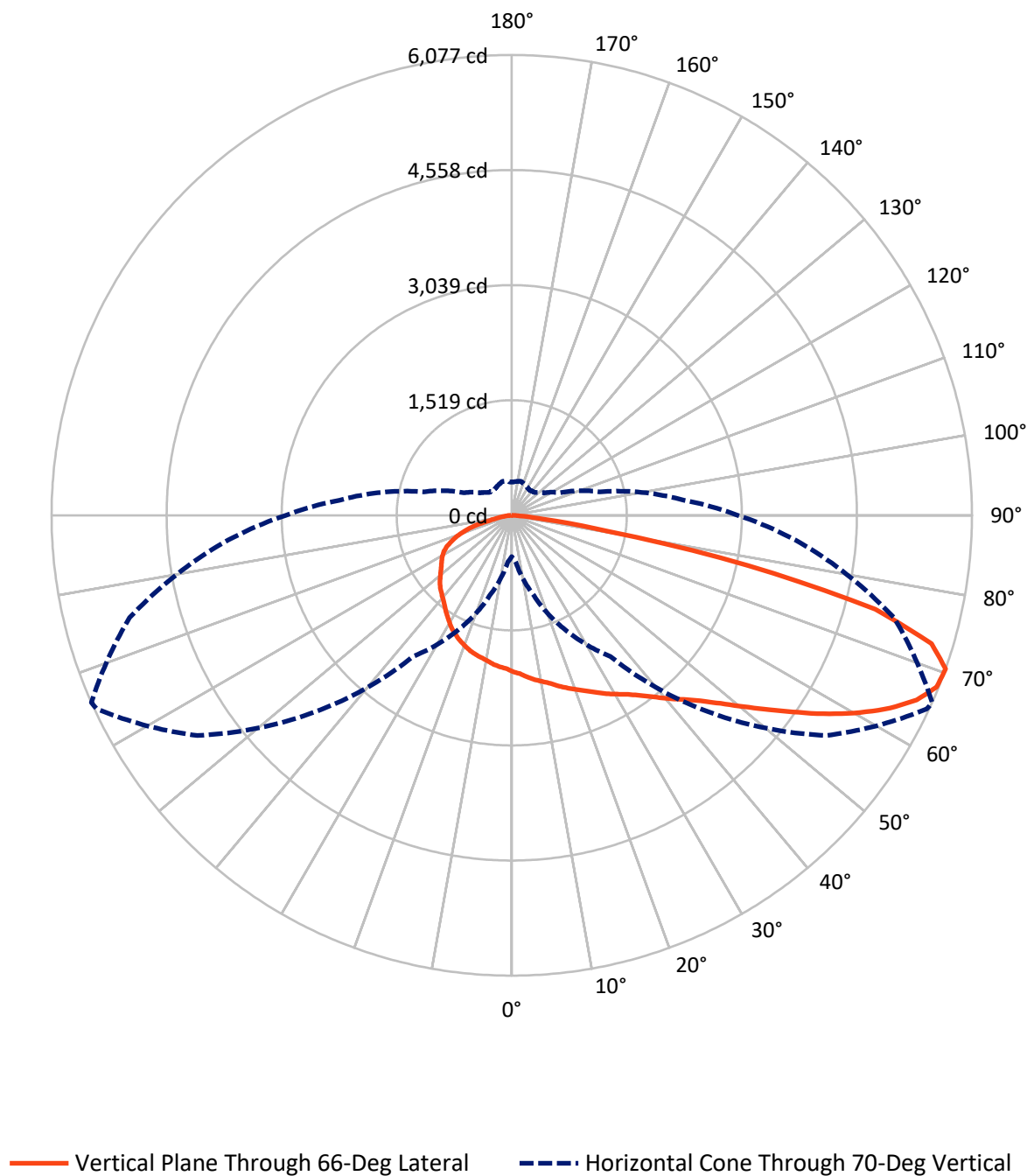


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Luminous Intensity Polar Plot



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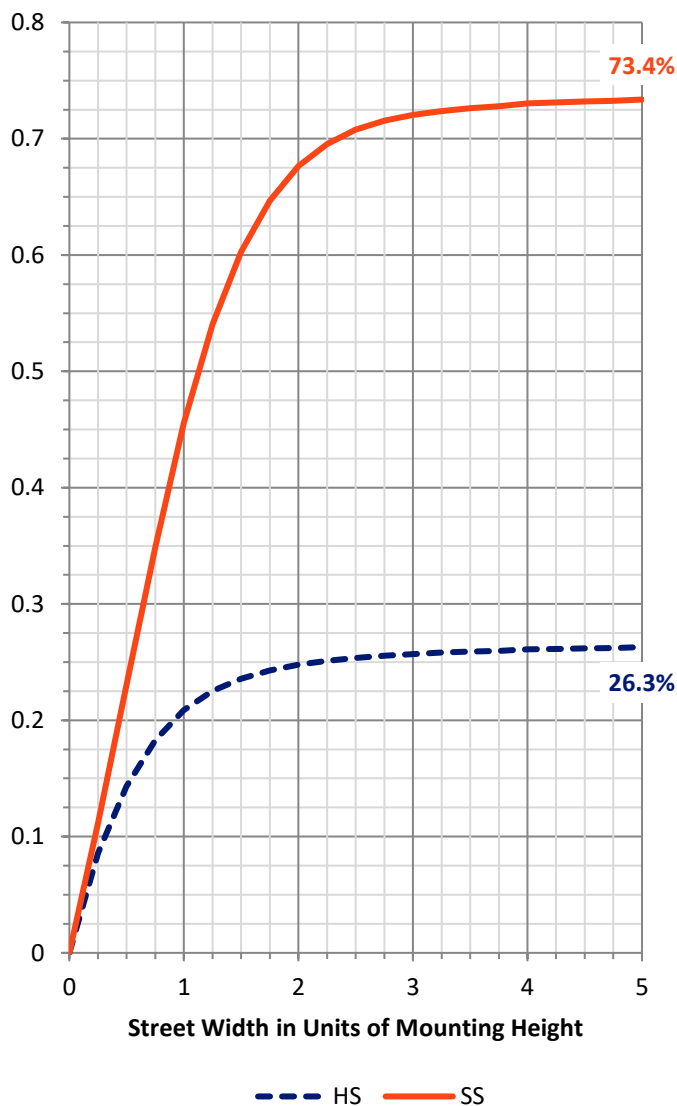
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3032.9	0.0	3032.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8413.1	0.0	8413.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	11446.0	0.0	11446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	1.7
10°-20°	595.4	5.2
20°-30°	998.1	8.7
30°-40°	1494.5	13.1
40°-50°	1998.2	17.5
50°-60°	2332.9	20.4
60°-70°	2319.7	20.3
70°-80°	1373.3	12.0
80°-90°	135.4	1.2
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°	11446.0	100.0
0°-180°	11446.0	100.0

Coefficient of Utilization



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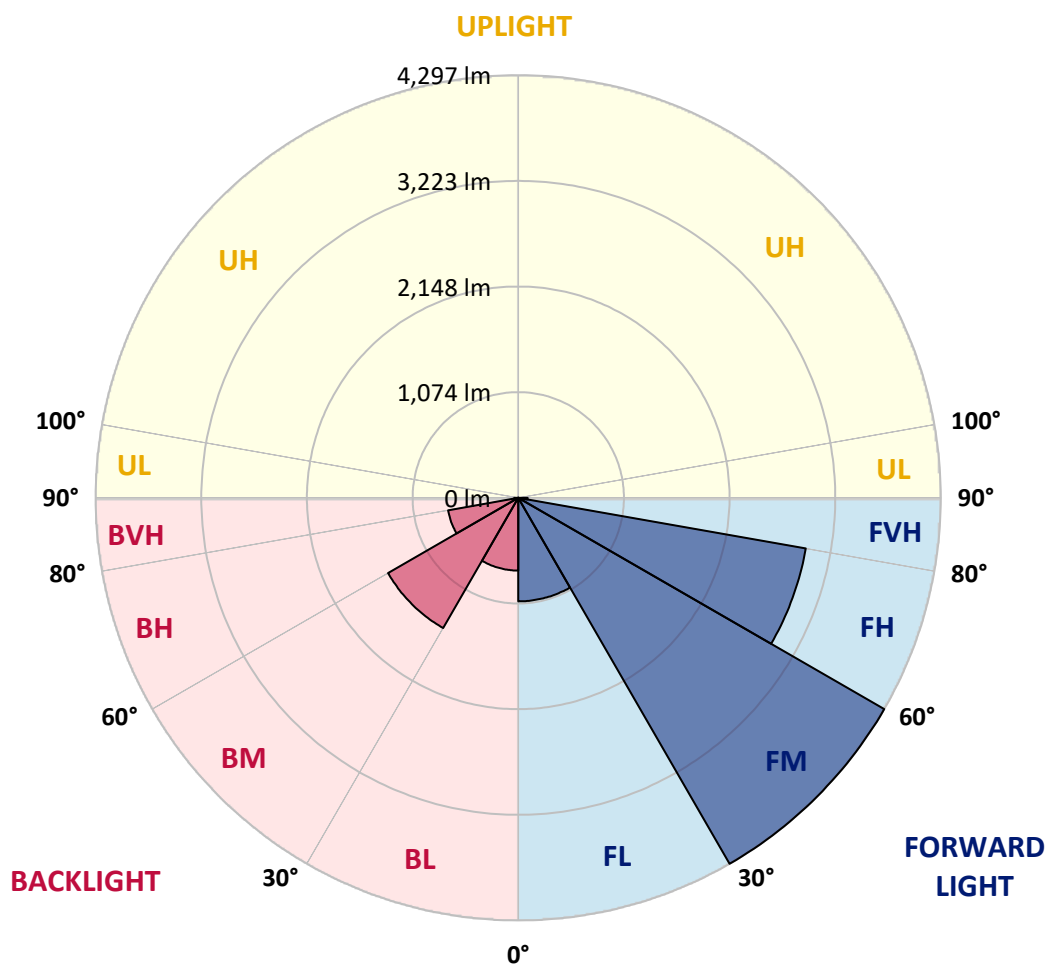
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1052.7	9.2			
FM	(30°-60°)	4296.7	37.5			
FH	(60°-80°)	2968.5	25.9			G2/5000
FVH	(80°-90°)	95.1	0.8			G1/100
BL	(0°-30°)	739.3	6.5	B2/1000		
BM	(30°-60°)	1528.9	13.4	B2/2500		
BH	(60°-80°)	724.5	6.3	B2/1000		G2/1000
BVH	(80°-90°)	40.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7
2.5°	2141.7	2138.3	2136.6	2129.9	2114.7	2121.4	2106.2	2096.1	2094.4	2070.8	2057.3
5°	2229.4	2227.8	2224.4	2214.3	2190.6	2194.0	2168.7	2150.1	2145.1	2107.9	2079.2
7.5°	2303.7	2300.3	2298.6	2285.1	2259.8	2258.1	2227.8	2200.8	2192.3	2141.7	2097.8
10°	2361.1	2356.0	2359.4	2345.9	2318.9	2313.8	2275.0	2239.6	2231.1	2167.0	2106.2
12.5°	2410.0	2406.7	2411.7	2399.9	2378.0	2372.9	2334.1	2288.5	2278.4	2204.1	2124.8
15°	2464.0	2452.2	2462.4	2457.3	2442.1	2440.4	2405.0	2354.3	2340.8	2251.4	2153.5
17.5°	2492.7	2486.0	2497.8	2499.5	2492.7	2504.5	2470.8	2410.0	2398.2	2295.3	2178.8
20°	2513.0	2502.9	2516.4	2526.5	2531.5	2555.2	2528.2	2469.1	2455.6	2337.5	2202.4
22.5°	2582.2	2560.2	2561.9	2568.7	2572.1	2605.8	2588.9	2531.5	2518.0	2389.8	2231.1
25°	2756.0	2712.1	2683.4	2663.2	2639.6	2668.3	2658.1	2602.4	2590.6	2452.2	2266.6
27.5°	3026.0	2970.3	2913.0	2853.9	2761.1	2749.3	2732.4	2681.8	2668.3	2514.7	2302.0
30°	3333.2	3277.5	3210.0	3115.5	2941.7	2850.5	2811.7	2756.0	2740.8	2570.4	2335.8
32.5°	3638.7	3589.7	3522.2	3407.5	3159.4	2973.7	2891.0	2833.6	2818.5	2631.1	2376.3
35°	3876.6	3846.3	3802.4	3658.9	3375.4	3118.9	3005.8	2936.6	2919.7	2727.3	2450.5
37.5°	4069.0	4047.1	4010.0	3859.8	3532.4	3264.0	3137.4	3058.1	3039.5	2832.0	2529.9
40°	4352.6	4295.2	4264.8	4047.1	3669.1	3395.6	3285.9	3203.3	3183.0	2943.3	2594.0
42.5°	4593.9	4551.7	4514.6	4214.2	3799.0	3508.7	3426.0	3350.1	3323.1	3053.0	2663.2
45°	4634.4	4651.3	4632.7	4296.9	4004.9	3620.1	3567.8	3518.9	3493.5	3201.6	2767.8
47.5°	4636.1	4636.1	4526.4	4344.1	4259.7	3745.0	3719.7	3736.6	3709.6	3390.6	2892.7
50°	4514.6	4536.5	4479.2	4355.9	4327.3	3869.9	3905.3	3996.5	3969.5	3591.4	3027.7
52.5°	4263.1	4335.7	4334.0	4337.4	4229.4	3976.2	4101.1	4308.7	4263.1	3817.6	3171.2
55°	3819.3	3964.4	4094.4	4205.7	4145.0	4040.3	4340.8	4641.2	4593.9	4070.7	3316.3
57.5°	3439.5	3532.4	3694.4	4010.0	4045.4	4096.0	4565.2	4988.8	4946.6	4350.9	3468.2
60°	3005.8	3134.1	3296.1	3745.0	3923.9	4168.6	4811.6	5328.1	5287.6	4634.4	3615.0
62.5°	2339.1	2504.5	2828.6	3338.3	3746.7	4214.2	5005.7	5626.8	5608.2	4902.8	3746.7
65°	1630.3	1777.1	2231.1	2838.7	3464.8	4193.9	5161.0	5893.4	5876.6	5122.2	3839.5
67.5°	951.9	1122.3	1635.4	2285.1	2967.0	4053.9	5211.6	6050.4	6050.4	5255.5	3864.8
70°	543.4	622.8	1078.4	1665.8	2275.0	3667.4	5069.8	6048.7	6077.4	5225.1	3760.2
72.5°	379.7	415.2	725.7	1120.6	1542.6	2967.0	4698.6	5756.7	5795.6	4938.2	3402.4
75°	295.3	320.7	511.4	764.5	972.1	2015.1	3886.8	4853.8	4956.8	4209.1	2750.9
77.5°	224.5	243.0	298.7	477.6	622.8	1157.8	2565.3	3183.0	3189.7	2577.1	1475.0
80°	163.7	182.3	199.1	292.0	330.8	541.8	968.7	1329.9	1292.8	1247.2	798.3
82.5°	97.9	116.5	121.5	158.6	162.0	231.2	339.2	428.7	411.8	548.5	374.7
85°	42.2	59.1	62.4	72.6	69.2	94.5	135.0	113.1	101.3	116.5	81.0
87.5°	10.1	16.9	16.9	18.6	15.2	23.6	25.3	18.6	16.9	20.3	20.3
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°	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7
2.5°	2053.9	2048.9	2050.6	2021.9	2013.4	2005.0	1999.9	1996.5	1993.2	1998.2	2003.3
5°	2069.1	2057.3	2043.8	2001.6	1984.7	1966.2	1952.7	1940.9	1935.8	1935.8	1940.9
7.5°	2080.9	2060.7	2032.0	1976.3	1945.9	1920.6	1898.7	1883.5	1875.0	1875.0	1880.1
10°	2082.6	2053.9	2008.4	1940.9	1900.3	1863.2	1837.9	1821.0	1809.2	1809.2	1812.6
12.5°	2092.7	2053.9	1994.9	1913.8	1863.2	1817.7	1787.3	1762.0	1756.9	1756.9	1760.3
15°	2109.6	2062.4	1986.4	1890.2	1829.5	1777.1	1743.4	1716.4	1706.3	1713.0	1714.7
17.5°	2124.8	2067.4	1971.2	1859.8	1787.3	1729.9	1692.8	1669.1	1655.6	1670.8	1670.8
20°	2134.9	2067.4	1949.3	1821.0	1741.7	1677.6	1642.1	1613.4	1603.3	1621.9	1623.6
22.5°	2150.1	2065.7	1925.7	1782.2	1692.8	1625.3	1589.8	1567.9	1562.8	1583.1	1589.8
25°	2167.0	2069.1	1900.3	1738.3	1638.8	1572.9	1545.9	1535.8	1539.2	1564.5	1572.9
27.5°	2185.6	2075.9	1875.0	1689.4	1579.7	1520.6	1505.4	1510.5	1524.0	1556.1	1566.2
30°	2202.4	2077.6	1839.6	1632.0	1512.2	1456.5	1463.2	1485.2	1505.4	1537.5	1549.3
32.5°	2224.4	2079.2	1802.5	1569.6	1439.6	1399.1	1429.5	1464.9	1485.2	1515.6	1529.1
35°	2278.4	2107.9	1773.8	1508.8	1372.1	1350.2	1400.8	1446.4	1458.2	1485.2	1497.0
37.5°	2340.8	2155.2	1758.6	1446.4	1306.3	1301.2	1365.3	1410.9	1414.3	1431.2	1443.0
40°	2379.7	2175.4	1741.7	1394.0	1247.2	1250.6	1316.4	1351.8	1345.1	1356.9	1365.3
42.5°	2418.5	2182.2	1706.3	1350.2	1191.5	1194.9	1245.5	1270.8	1274.2	1299.5	1311.3
45°	2484.3	2200.8	1667.4	1309.7	1140.9	1129.1	1159.4	1193.2	1237.1	1286.0	1299.5
47.5°	2572.1	2239.6	1626.9	1260.7	1091.9	1053.1	1064.9	1124.0	1169.6	1215.1	1223.6
50°	2661.5	2278.4	1589.8	1201.6	1043.0	972.1	977.2	1031.2	1068.3	1103.8	1108.8
52.5°	2749.3	2312.1	1557.7	1145.9	987.3	875.9	896.2	951.9	977.2	994.1	999.1
55°	2837.0	2340.8	1529.1	1098.7	923.2	800.0	818.5	870.9	896.2	904.6	908.0
57.5°	2928.2	2374.6	1507.1	1058.2	850.6	732.5	744.3	781.4	805.0	815.2	811.8
60°	3004.1	2403.3	1495.3	1016.0	778.0	670.0	666.6	700.4	734.1	744.3	740.9
62.5°	3063.2	2421.8	1476.7	962.0	713.9	607.6	590.7	634.6	670.0	676.8	681.8
65°	3095.2	2423.5	1431.2	892.8	648.1	540.1	528.2	572.1	594.1	600.8	600.8
67.5°	3090.2	2396.5	1341.7	800.0	587.3	479.3	469.2	496.2	528.2	533.3	528.2
70°	2985.5	2285.1	1198.3	702.1	514.7	425.3	406.7	433.7	464.1	445.6	437.1
72.5°	2688.5	1996.5	987.3	594.1	433.7	357.8	349.4	376.4	378.0	381.4	373.0
75°	2121.4	1486.9	739.2	462.4	351.0	300.4	298.7	293.7	300.4	313.9	303.8
77.5°	1113.9	742.6	400.0	283.5	254.8	241.3	229.5	227.8	248.1	256.5	246.4
80°	604.2	416.9	229.5	170.5	155.3	157.0	172.1	168.8	190.7	195.8	187.3
82.5°	263.3	197.5	113.1	102.9	102.9	101.3	106.3	118.1	141.8	141.8	113.1
85°	57.4	48.9	43.9	50.6	57.4	57.4	57.4	57.4	40.5	21.9	15.2
87.5°	18.6	18.6	18.6	20.3	21.9	21.9	18.6	13.5	8.4	1.7	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)