

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: P836678

Luminaire Tested: **ARCH3-60-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

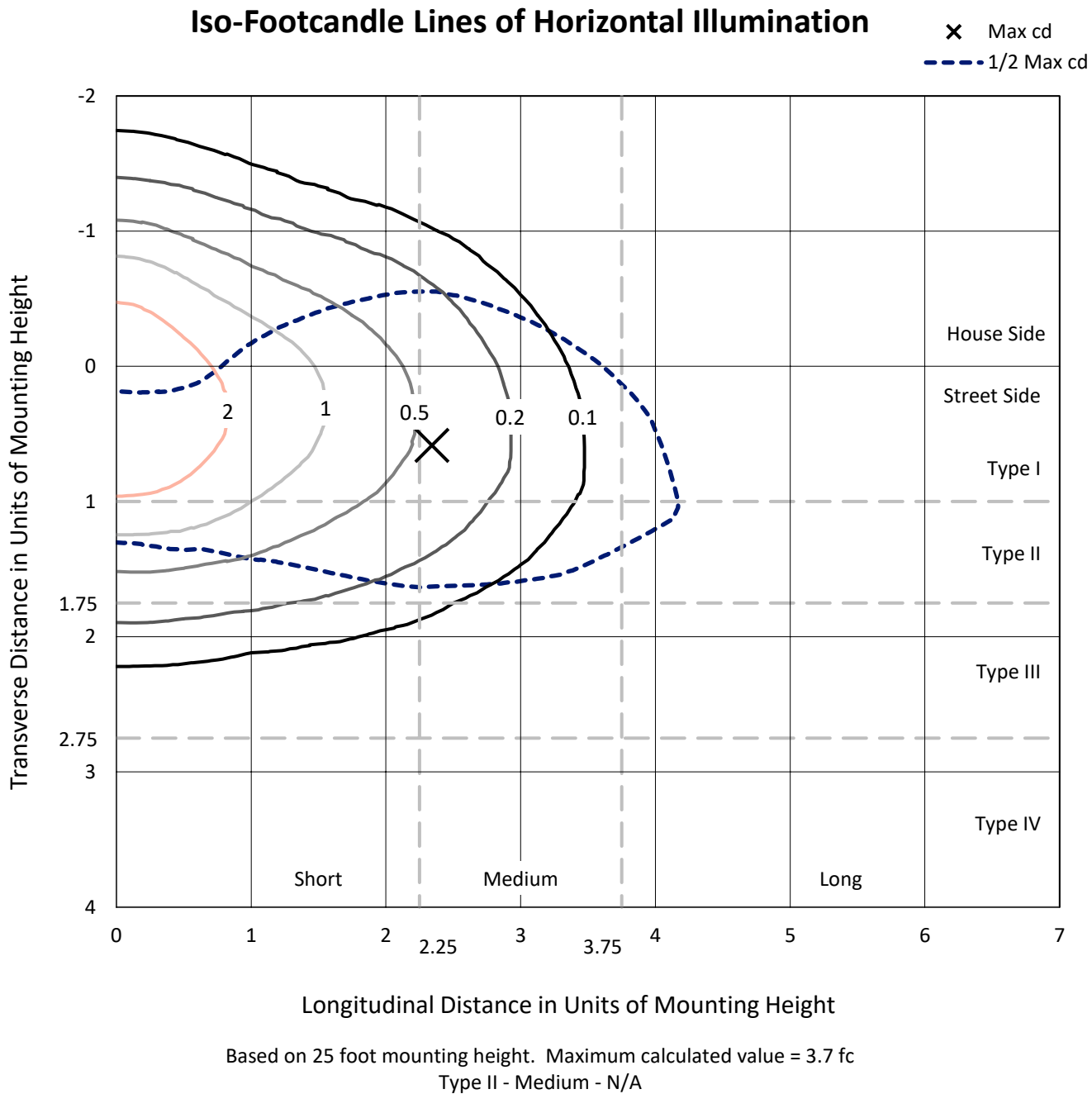
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10113 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.2
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

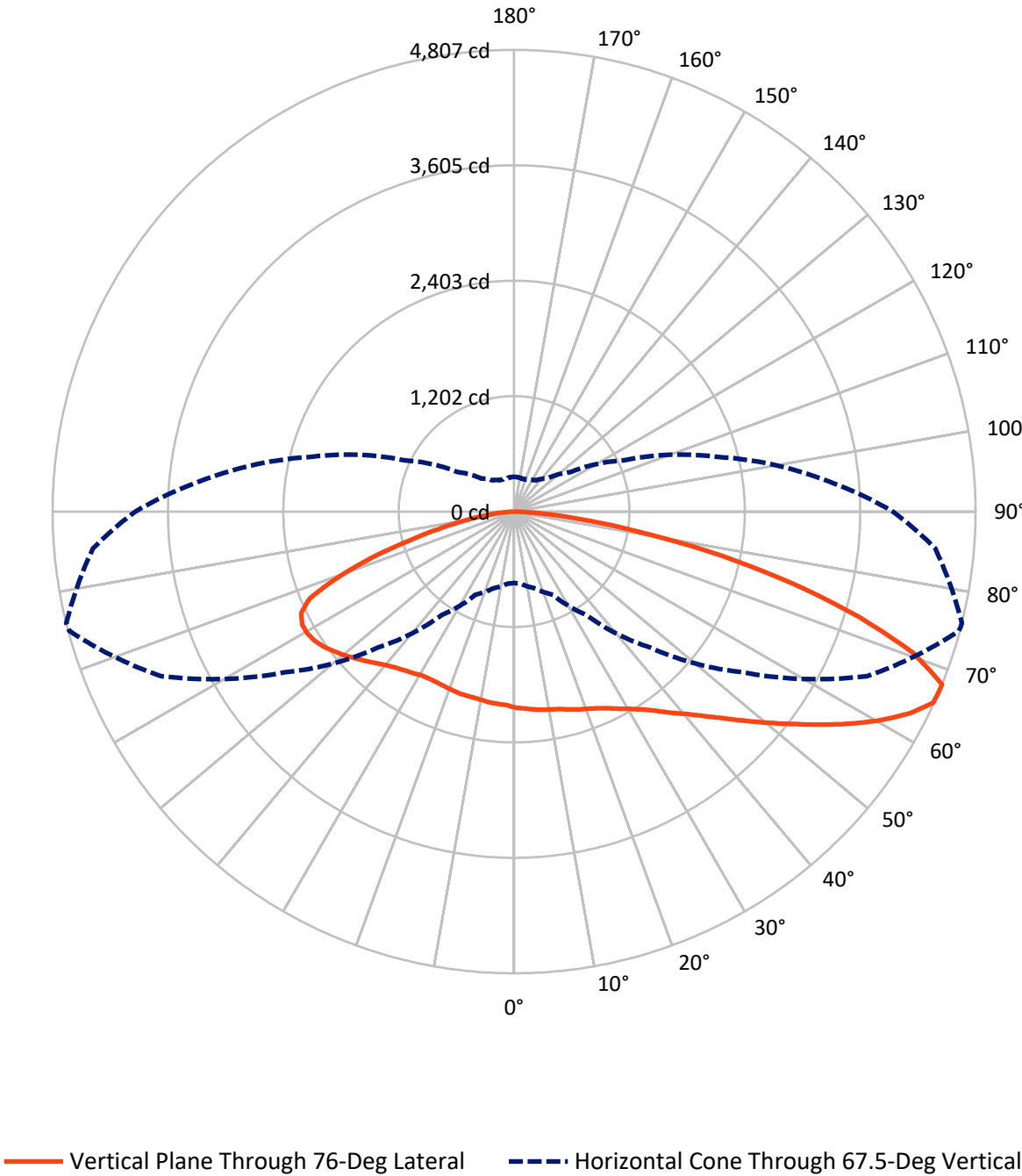


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Luminous Intensity Polar Plot



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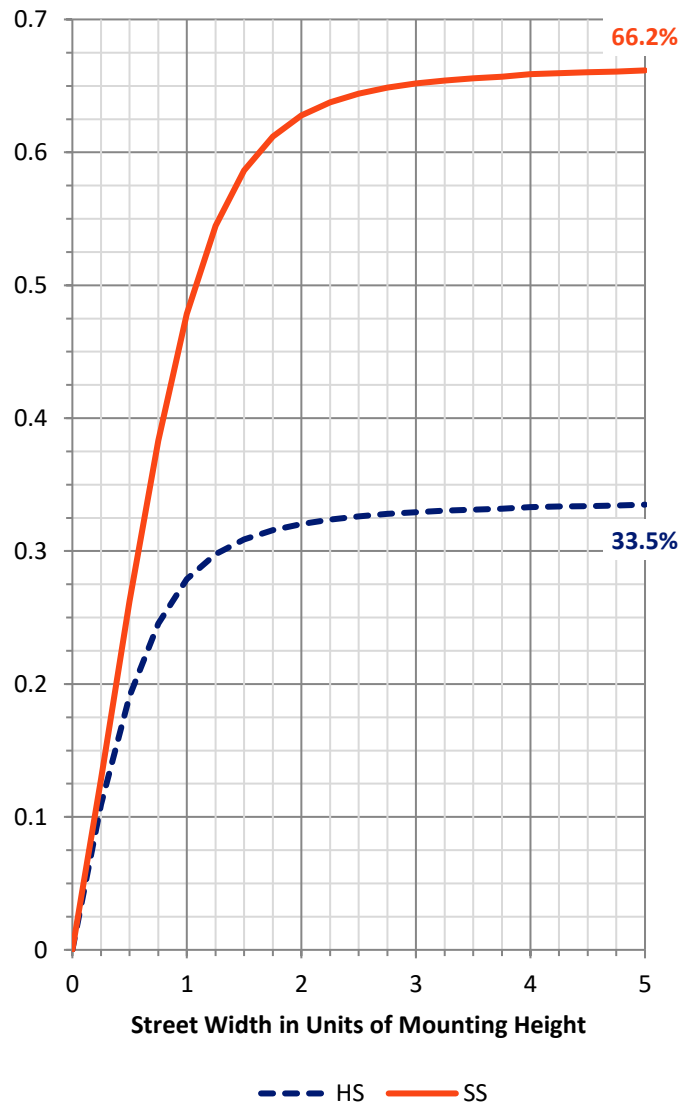
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3417.2	0.0	3417.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6695.8	0.0	6695.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	10113.0	0.0	10113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.9
10°-20°	602.2	6.0
20°-30°	1023.2	10.1
30°-40°	1455.9	14.4
40°-50°	1838.7	18.2
50°-60°	1990.7	19.7
60°-70°	1851.6	18.3
70°-80°	994.5	9.8
80°-90°	159.4	1.6
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°	10113.0	100.0
0°-180°	10113.0	100.0

Coefficient of Utilization



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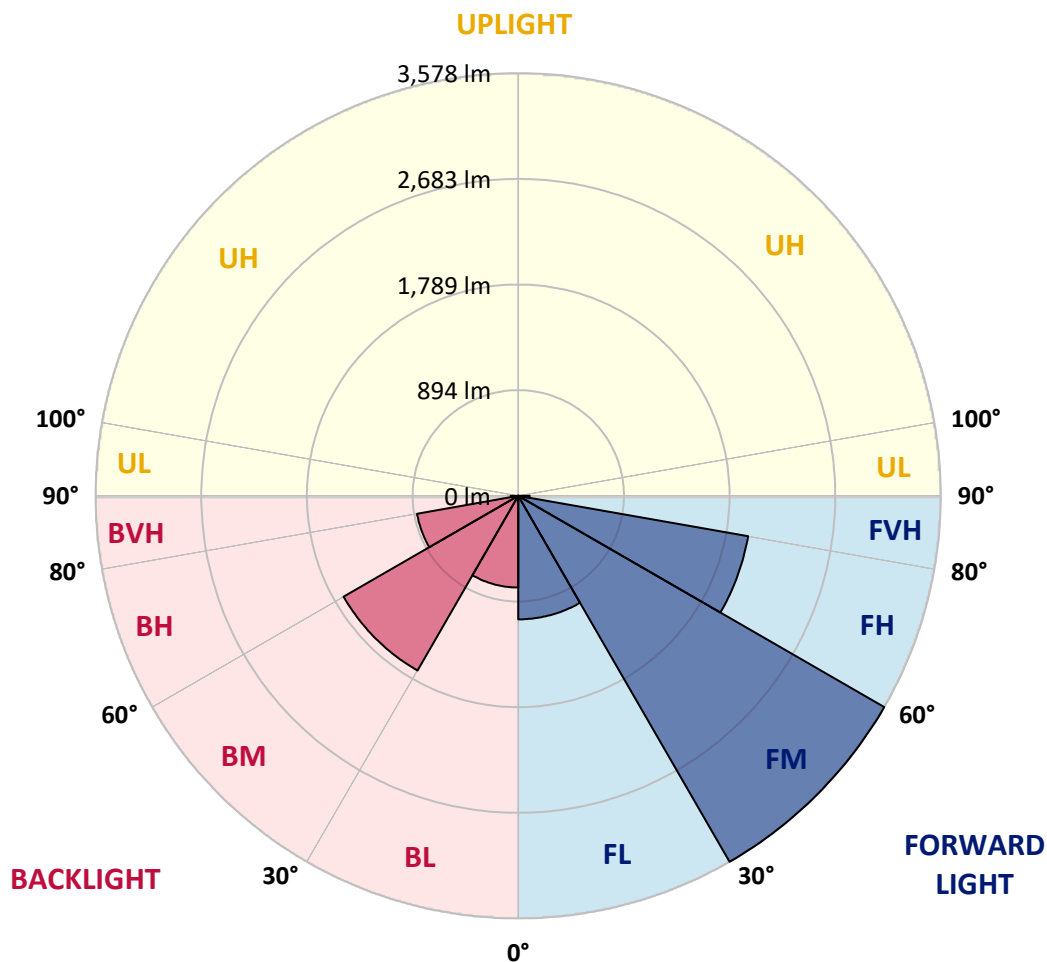
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1045.8	10.3			
FM	(30°-60°)	3577.6	35.4			
FH	(60°-80°)	1976.0	19.5			G2/5000
FVH	(80°-90°)	96.4	1.0			G1/100
BL	(0°-30°)	776.6	7.7	B2/1000		
BM	(30°-60°)	1707.6	16.9	B2/2500		
BH	(60°-80°)	870.1	8.6	B2/1000		G2/1000
BVH	(80°-90°)	63.0	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2104.8	2101.0	2086.0	2087.9	2087.9	2086.0	2063.5	2054.1	2054.1	2052.2	2031.5
5°	2179.9	2174.2	2157.3	2153.6	2146.1	2136.7	2101.0	2080.4	2071.0	2069.1	2040.9
7.5°	2268.1	2260.6	2239.9	2228.7	2209.9	2185.5	2140.4	2108.5	2086.0	2084.1	2044.7
10°	2356.4	2348.8	2324.4	2303.8	2277.5	2238.1	2179.9	2132.9	2097.3	2093.5	2046.6
12.5°	2461.5	2454.0	2424.0	2397.7	2358.2	2305.7	2228.7	2164.8	2116.0	2110.4	2052.2
15°	2572.3	2561.0	2531.0	2500.9	2452.1	2384.5	2292.5	2208.0	2146.1	2136.7	2069.1
17.5°	2664.3	2649.3	2624.9	2594.8	2540.4	2461.5	2356.4	2251.2	2174.2	2166.7	2086.0
20°	2743.1	2731.9	2705.6	2677.4	2619.2	2532.9	2416.4	2294.4	2200.5	2191.1	2099.1
22.5°	2818.2	2803.2	2788.2	2767.5	2703.7	2608.0	2485.9	2347.0	2234.3	2223.1	2116.0
25°	2904.6	2887.7	2882.1	2870.8	2795.7	2698.1	2570.4	2412.7	2281.3	2268.1	2146.1
27.5°	3011.6	2992.9	2981.6	2981.6	2891.5	2790.1	2660.5	2489.7	2335.7	2324.4	2183.6
30°	3124.3	3101.8	3084.9	3084.9	2983.5	2882.1	2748.8	2566.6	2397.7	2384.5	2232.4
32.5°	3223.8	3201.3	3182.5	3180.6	3075.5	2974.1	2840.8	2651.1	2472.8	2455.9	2292.5
35°	3300.8	3280.1	3263.2	3267.0	3167.5	3068.0	2944.0	2763.8	2566.6	2547.9	2371.4
37.5°	3347.7	3340.2	3330.8	3344.0	3252.0	3158.1	3051.1	2872.7	2673.7	2656.8	2469.0
40°	3372.1	3366.5	3404.0	3420.9	3323.3	3238.8	3158.1	2985.3	2790.1	2771.3	2581.7
42.5°	3407.8	3454.7	3469.8	3466.0	3375.9	3300.8	3255.7	3107.4	2927.1	2910.2	2716.9
45°	3280.1	3268.9	3351.5	3396.5	3379.6	3340.2	3347.7	3253.8	3086.7	3069.8	2872.7
47.5°	3109.3	3094.2	3141.2	3252.0	3317.7	3355.2	3430.3	3405.9	3270.7	3255.7	3054.8
50°	2748.8	2769.4	2944.0	3092.4	3221.9	3351.5	3499.8	3569.3	3473.5	3458.5	3250.1
52.5°	2348.8	2369.5	2551.6	2893.3	3105.5	3323.3	3550.5	3732.6	3693.2	3676.3	3458.5
55°	2057.8	2102.9	2309.4	2557.3	2940.3	3235.1	3580.5	3899.7	3929.8	3914.7	3685.7
57.5°	1768.7	1802.5	1958.3	2178.0	2715.0	3081.1	3578.7	4055.6	4177.6	4162.6	3916.6
60°	1428.8	1472.0	1595.9	1832.5	2414.6	2897.1	3526.1	4177.6	4416.1	4404.8	4140.1
62.5°	1196.0	1209.2	1297.4	1502.1	2027.8	2664.3	3407.8	4243.3	4632.0	4624.5	4341.0
65°	963.2	965.1	1045.8	1216.7	1654.1	2375.1	3206.9	4218.9	4795.3	4799.1	4485.5
67.5°	743.5	752.9	826.1	955.7	1314.3	1999.6	2919.6	4053.7	4797.2	4806.6	4402.9
70°	514.5	522.0	632.7	758.5	1015.8	1594.1	2531.0	3616.2	4402.9	4410.4	3946.7
72.5°	362.4	366.1	484.4	606.5	794.2	1201.6	1909.5	2991.0	3753.3	3758.9	3319.6
75°	270.4	274.1	341.7	460.0	608.3	831.8	1304.9	2290.6	2998.5	2998.5	2621.1
77.5°	191.5	193.4	221.6	317.3	405.6	561.4	784.8	1500.2	2200.5	2204.3	1909.5
80°	129.6	131.4	144.6	214.0	253.5	304.2	426.2	786.7	1387.5	1393.2	1212.9
82.5°	67.6	71.3	80.7	108.9	127.7	169.0	219.7	399.9	767.9	782.9	728.5
85°	26.3	26.3	30.0	35.7	46.9	65.7	101.4	152.1	347.4	358.6	321.1
87.5°	9.4	9.4	11.3	11.3	13.1	15.0	16.9	22.5	39.4	39.4	37.6
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°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2024.0	2024.0	2014.6	2018.4	2016.5	2012.8	2009.0	2014.6	2009.0	1995.9	1994.0
5°	2027.8	2024.0	2009.0	2007.1	2001.5	1994.0	1984.6	1988.4	1979.0	1967.7	1965.8
7.5°	2029.7	2022.2	2001.5	1994.0	1982.7	1967.7	1952.7	1952.7	1939.5	1928.3	1926.4
10°	2025.9	2016.5	1988.4	1973.3	1952.7	1930.1	1909.5	1903.9	1888.8	1875.7	1875.7
12.5°	2027.8	2014.6	1979.0	1954.6	1926.4	1898.2	1871.9	1864.4	1851.3	1838.1	1836.3
15°	2039.0	2020.3	1975.2	1943.3	1902.0	1870.1	1841.9	1836.3	1825.0	1815.6	1815.6
17.5°	2050.3	2025.9	1969.6	1924.5	1873.8	1838.1	1811.9	1811.9	1804.4	1798.7	1798.7
20°	2055.9	2027.8	1958.3	1898.2	1840.0	1802.5	1778.1	1781.8	1779.9	1778.1	1778.1
22.5°	2069.1	2031.5	1948.9	1873.8	1804.4	1764.9	1742.4	1748.0	1746.1	1746.1	1748.0
25°	2089.7	2040.9	1941.4	1851.3	1770.6	1727.4	1703.0	1706.7	1706.7	1706.7	1706.7
27.5°	2117.9	2059.7	1939.5	1830.6	1736.8	1687.9	1657.9	1657.9	1650.4	1652.3	1654.1
30°	2161.1	2095.4	1943.3	1811.9	1701.1	1639.1	1603.5	1597.8	1595.9	1599.7	1601.6
32.5°	2213.7	2144.2	1965.8	1798.7	1663.5	1584.7	1539.6	1537.7	1532.1	1532.1	1532.1
35°	2279.4	2191.1	1986.5	1796.8	1626.0	1526.5	1477.7	1472.0	1458.9	1453.2	1453.2
37.5°	2363.9	2264.4	2010.9	1783.7	1594.1	1470.1	1411.9	1393.2	1378.1	1376.3	1376.3
40°	2467.1	2347.0	2046.6	1768.7	1560.3	1411.9	1335.0	1303.0	1304.9	1312.4	1312.4
42.5°	2589.2	2448.4	2091.6	1761.2	1511.4	1351.9	1244.8	1207.3	1220.4	1227.9	1229.8
45°	2731.9	2568.5	2142.3	1751.8	1466.4	1284.3	1149.1	1102.1	1107.8	1109.6	1111.5
47.5°	2897.1	2701.8	2194.9	1744.3	1415.7	1199.8	1043.9	982.0	980.1	968.8	972.6
50°	3069.8	2842.7	2249.3	1731.1	1353.7	1100.3	933.2	859.9	844.9	828.0	829.9
52.5°	3253.8	2987.2	2300.0	1710.5	1276.8	998.9	828.0	749.2	719.1	700.3	704.1
55°	3456.6	3135.6	2348.8	1678.6	1196.0	897.5	734.1	653.4	615.8	600.8	602.7
57.5°	3642.5	3278.2	2384.5	1639.1	1107.8	805.5	651.5	572.7	548.3	546.4	548.3
60°	3822.7	3398.4	2399.5	1584.7	1017.6	721.0	574.5	514.5	497.6	506.9	508.8
62.5°	3974.8	3475.4	2392.0	1511.4	925.6	640.3	512.6	469.4	458.1	476.9	478.8
65°	4063.1	3499.8	2339.5	1406.3	826.1	561.4	454.4	407.4	401.8	413.1	418.7
67.5°	3946.7	3347.7	2196.8	1261.7	715.4	488.2	398.0	360.5	351.1	360.5	360.5
70°	3497.9	2900.9	1858.8	1032.7	593.3	416.8	345.5	319.2	311.7	319.2	317.3
72.5°	2914.0	2412.7	1464.5	805.5	467.5	351.1	300.4	276.0	268.5	261.0	257.2
75°	2260.6	1832.5	1062.7	591.4	353.0	281.6	251.6	229.1	210.3	217.8	214.0
77.5°	1656.0	1286.1	752.9	409.3	253.5	217.8	197.1	180.2	167.1	182.1	180.2
80°	1066.5	831.8	503.2	274.1	174.6	152.1	144.6	135.2	148.3	193.4	197.1
82.5°	651.5	527.6	300.4	178.4	114.5	101.4	93.9	93.9	152.1	167.1	169.0
85°	291.0	279.8	163.3	92.0	63.8	58.2	52.6	67.6	62.0	45.1	46.9
87.5°	46.9	48.8	35.7	31.9	24.4	24.4	18.8	13.1	9.4	5.6	5.6
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)