

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: P800133

Luminaire Tested: **ARCH2-80-727-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

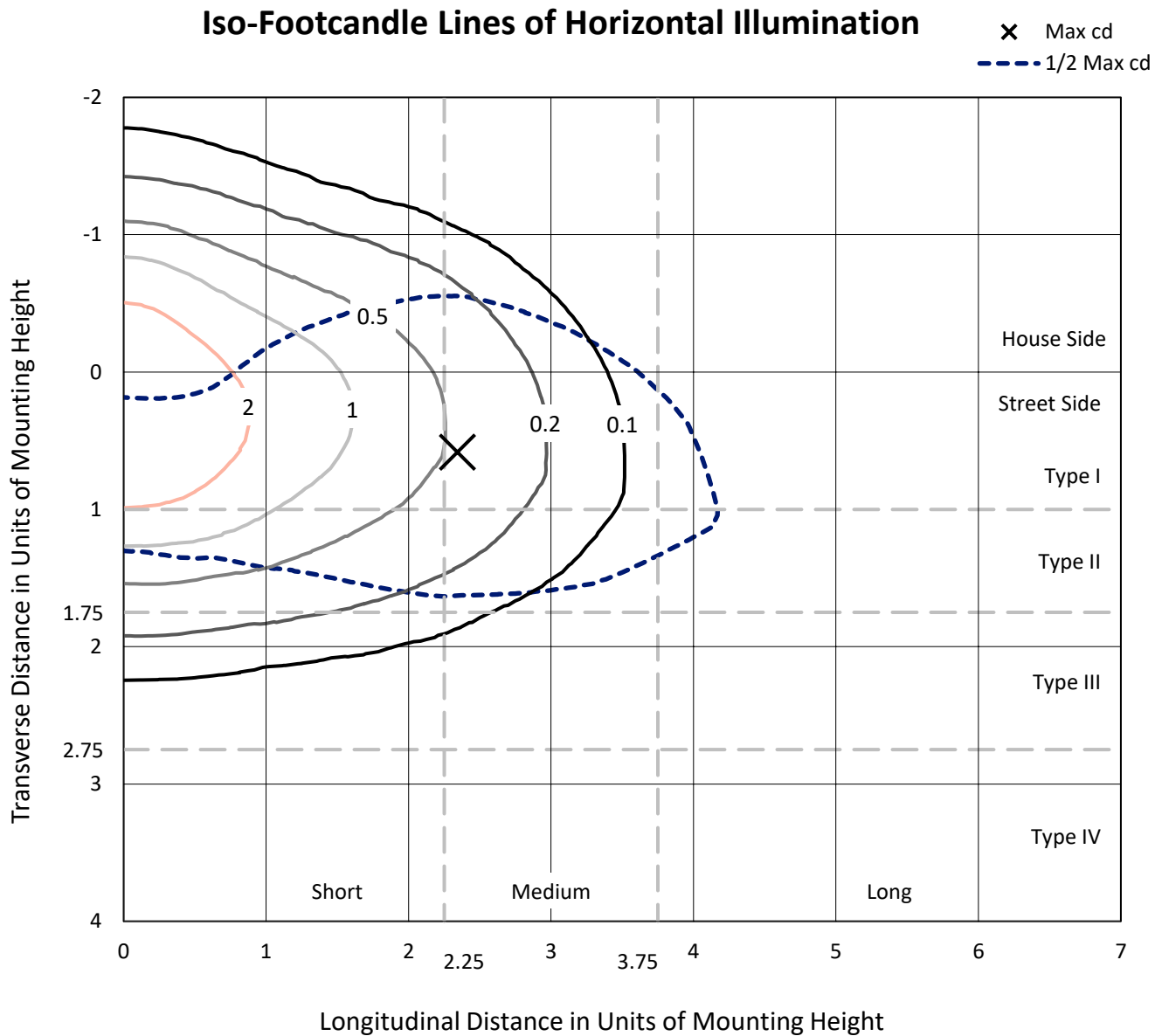
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10664 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.3
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

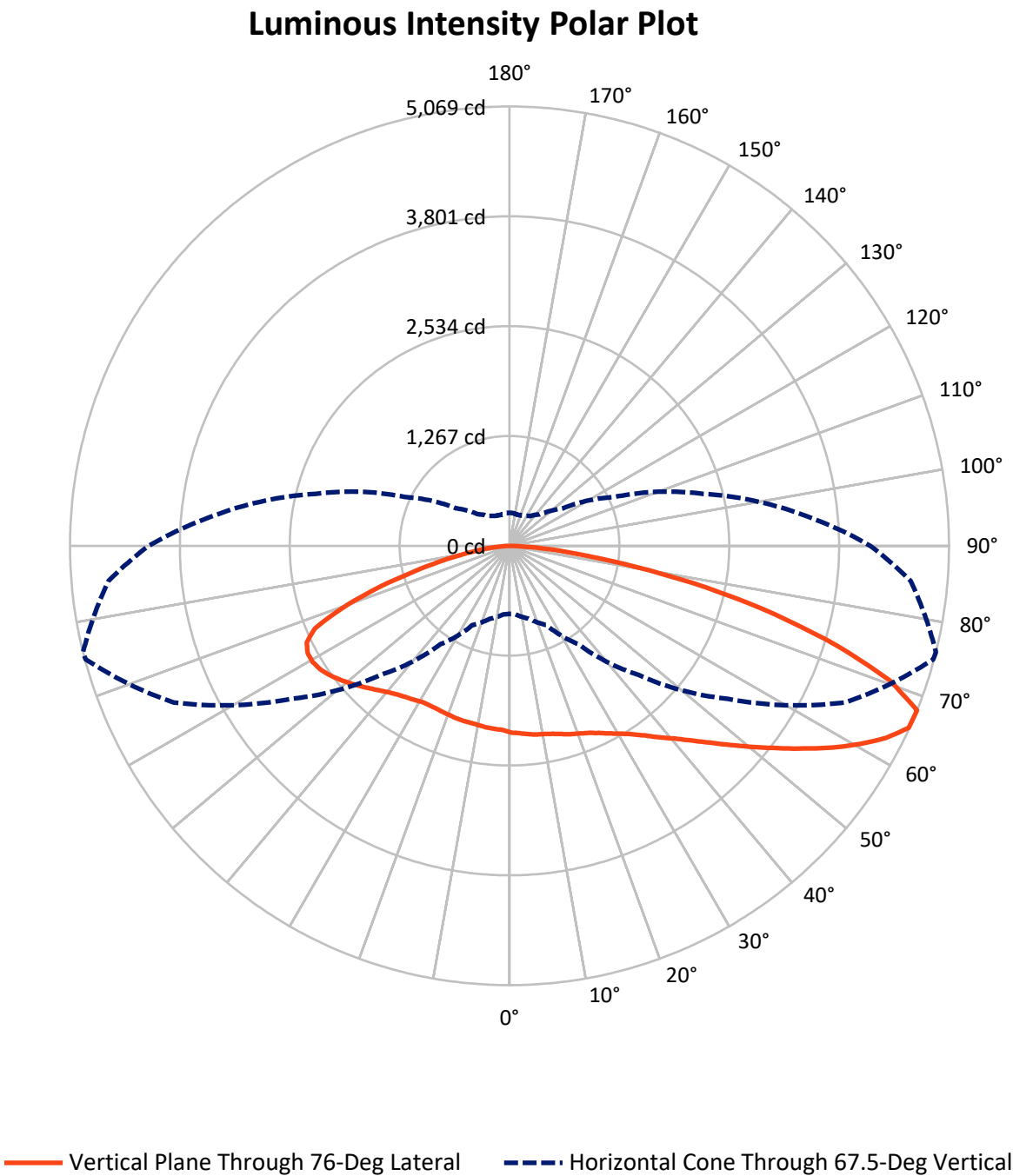


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Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Medium - N/A

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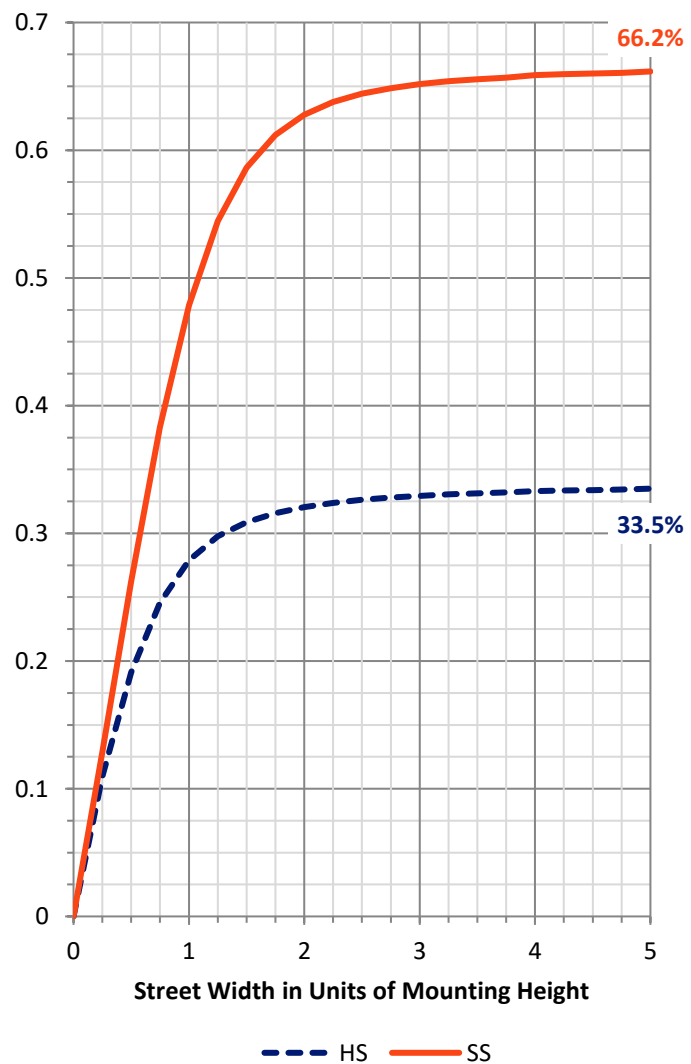
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3603.4	0.0	3603.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7060.6	0.0	7060.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	10664.0	0.0	10664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.9
10°-20°	635.0	6.0
20°-30°	1078.9	10.1
30°-40°	1535.2	14.4
40°-50°	1938.8	18.2
50°-60°	2099.2	19.7
60°-70°	1952.5	18.3
70°-80°	1048.6	9.8
80°-90°	168.0	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°	10664.0	100.0
0°-180°	10664.0	100.0

Coefficient of Utilization



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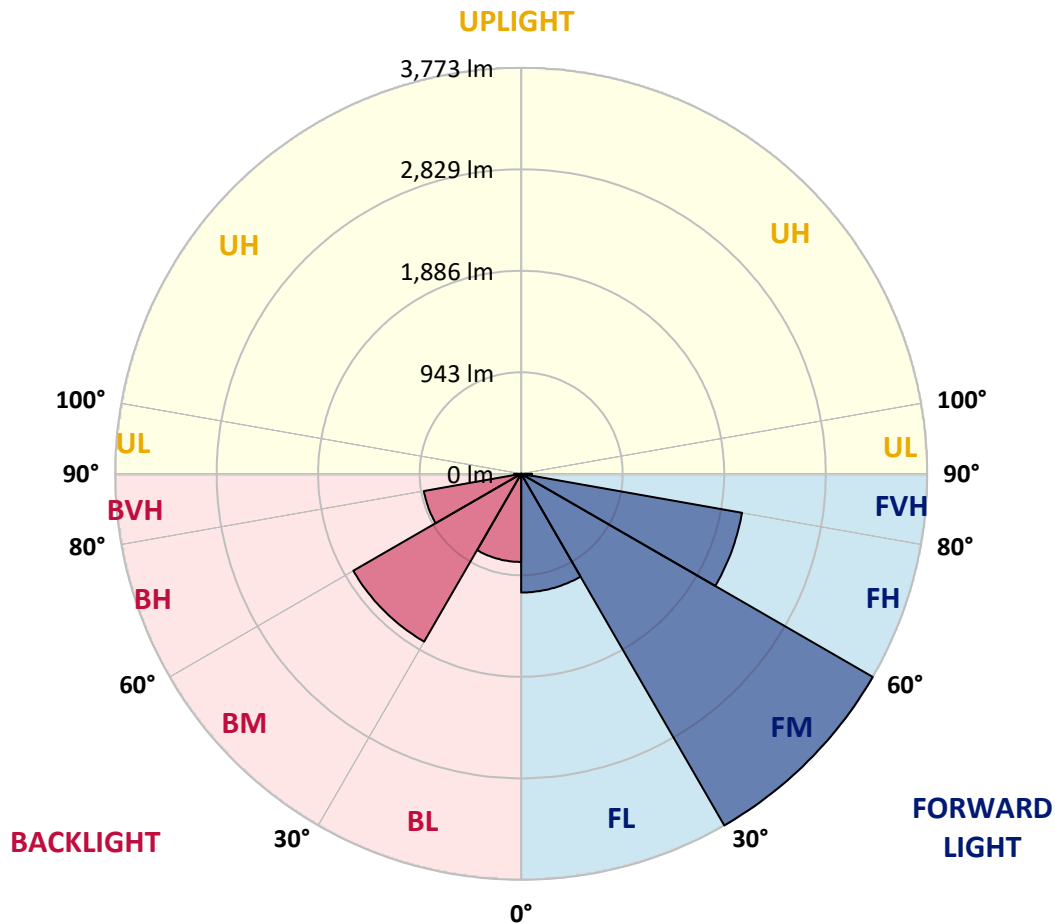
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1102.8	10.3			
FM	(30°-60°)	3772.5	35.4			
FH	(60°-80°)	2083.6	19.5			G2/5000
FVH	(80°-90°)	101.6	1.0			G2/225
BL	(0°-30°)	818.9	7.7	B2/1000		
BM	(30°-60°)	1800.7	16.9	B2/2500		
BH	(60°-80°)	917.5	8.6	B2/1000		G2/1000
BVH	(80°-90°)	66.4	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°	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1
2.5°	2219.4	2215.5	2199.6	2201.6	2201.6	2199.6	2175.9	2166.0	2166.0	2164.0	2142.2
5°	2298.6	2292.7	2274.9	2270.9	2263.0	2253.1	2215.5	2193.7	2183.8	2181.8	2152.1
7.5°	2391.7	2383.8	2362.0	2350.1	2330.3	2304.6	2257.1	2223.4	2199.6	2197.7	2156.1
10°	2484.7	2476.8	2451.1	2429.3	2401.6	2360.0	2298.6	2249.1	2211.5	2207.6	2158.1
12.5°	2595.6	2587.7	2556.0	2528.3	2486.7	2431.3	2350.1	2282.8	2231.3	2225.4	2164.0
15°	2712.4	2700.6	2668.9	2637.2	2585.7	2514.4	2417.4	2328.3	2263.0	2253.1	2181.8
17.5°	2809.4	2793.6	2767.9	2736.2	2678.8	2595.6	2484.7	2373.9	2292.7	2284.8	2199.6
20°	2892.6	2880.7	2853.0	2823.3	2761.9	2670.9	2548.1	2419.4	2320.4	2310.5	2213.5
22.5°	2971.8	2956.0	2940.1	2918.3	2851.0	2750.0	2621.4	2474.8	2356.1	2344.2	2231.3
25°	3062.9	3045.0	3039.1	3027.2	2948.0	2845.1	2710.4	2544.1	2405.5	2391.7	2263.0
27.5°	3175.7	3155.9	3144.0	3144.0	3049.0	2942.1	2805.5	2625.3	2463.0	2451.1	2302.6
30°	3294.5	3270.8	3252.9	3252.9	3146.0	3039.1	2898.5	2706.5	2528.3	2514.4	2354.1
32.5°	3399.4	3375.7	3355.9	3353.9	3243.0	3136.1	2995.6	2795.6	2607.5	2589.7	2417.4
35°	3480.6	3458.8	3441.0	3445.0	3340.0	3235.1	3104.4	2914.4	2706.5	2686.7	2500.6
37.5°	3530.1	3522.2	3512.3	3526.2	3429.1	3330.2	3217.3	3029.2	2819.3	2801.5	2603.5
40°	3555.9	3549.9	3589.5	3607.3	3504.4	3415.3	3330.2	3148.0	2942.1	2922.3	2722.3
42.5°	3593.5	3643.0	3658.8	3654.9	3559.8	3480.6	3433.1	3276.7	3086.6	3068.8	2864.9
45°	3458.8	3447.0	3534.1	3581.6	3563.8	3522.2	3530.1	3431.1	3254.9	3237.1	3029.2
47.5°	3278.7	3262.8	3312.3	3429.1	3498.4	3538.0	3617.2	3591.5	3448.9	3433.1	3221.3
50°	2898.5	2920.3	3104.4	3260.9	3397.5	3534.1	3690.5	3763.7	3662.8	3646.9	3427.2
52.5°	2476.8	2498.6	2690.7	3051.0	3274.7	3504.4	3743.9	3936.0	3894.4	3876.6	3646.9
55°	2169.9	2217.5	2435.2	2696.6	3100.5	3411.3	3775.6	4112.2	4143.9	4128.0	3886.5
57.5°	1865.0	1900.7	2065.0	2296.7	2862.9	3249.0	3773.6	4276.5	4405.2	4389.4	4130.0
60°	1506.7	1552.2	1682.9	1932.4	2546.1	3054.9	3718.2	4405.2	4656.7	4644.8	4365.6
62.5°	1261.2	1275.0	1368.1	1583.9	2138.3	2809.4	3593.5	4474.5	4884.4	4876.4	4577.5
65°	1015.7	1017.7	1102.8	1283.0	1744.3	2504.5	3381.6	4448.8	5056.6	5060.6	4729.9
67.5°	784.0	793.9	871.1	1007.8	1385.9	2108.6	3078.7	4274.6	5058.6	5068.5	4642.8
70°	542.5	550.4	667.2	799.9	1071.1	1680.9	2668.9	3813.2	4642.8	4650.7	4161.7
72.5°	382.1	386.1	510.8	639.5	837.5	1267.1	2013.5	3153.9	3957.8	3963.7	3500.4
75°	285.1	289.1	360.3	485.1	641.5	877.1	1376.0	2415.4	3161.9	3161.9	2763.9
77.5°	201.9	203.9	233.6	334.6	427.7	592.0	827.6	1581.9	2320.4	2324.4	2013.5
80°	136.6	138.6	152.5	225.7	267.3	320.7	449.4	829.6	1463.1	1469.1	1279.0
82.5°	71.3	75.2	85.1	114.8	134.6	178.2	231.6	421.7	809.8	825.6	768.2
85°	27.7	27.7	31.7	37.6	49.5	69.3	106.9	160.4	366.3	378.2	338.6
87.5°	9.9	9.9	11.9	11.9	13.9	15.8	17.8	23.8	41.6	41.6	39.6
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°	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1	2154.1
2.5°	2134.3	2134.3	2124.4	2128.4	2126.4	2122.4	2118.5	2124.4	2118.5	2104.6	2102.6
5°	2138.3	2134.3	2118.5	2116.5	2110.5	2102.6	2092.7	2096.7	2086.8	2074.9	2072.9
7.5°	2140.2	2132.3	2110.5	2102.6	2090.7	2074.9	2059.1	2059.1	2045.2	2033.3	2031.4
10°	2136.3	2126.4	2096.7	2080.8	2059.1	2035.3	2013.5	2007.6	1991.8	1977.9	1977.9
12.5°	2138.3	2124.4	2086.8	2061.1	2031.4	2001.7	1973.9	1966.0	1952.2	1938.3	1936.3
15°	2150.1	2130.3	2082.8	2049.2	2005.6	1972.0	1942.3	1936.3	1924.4	1914.5	1914.5
17.5°	2162.0	2136.3	2076.9	2029.4	1975.9	1938.3	1910.6	1910.6	1902.7	1896.7	1896.7
20°	2168.0	2138.3	2065.0	2001.7	1940.3	1900.7	1874.9	1878.9	1876.9	1874.9	1874.9
22.5°	2181.8	2142.2	2055.1	1975.9	1902.7	1861.1	1837.3	1843.3	1841.3	1841.3	1843.3
25°	2203.6	2152.1	2047.2	1952.2	1867.0	1821.5	1795.7	1799.7	1799.7	1799.7	1799.7
27.5°	2233.3	2171.9	2045.2	1930.4	1831.4	1779.9	1748.2	1748.2	1740.3	1742.3	1744.3
30°	2278.8	2209.5	2049.2	1910.6	1793.8	1728.4	1690.8	1684.9	1682.9	1686.9	1688.8
32.5°	2334.3	2261.0	2072.9	1896.7	1754.2	1671.0	1623.5	1621.5	1615.6	1615.6	1615.6
35°	2403.6	2310.5	2094.7	1894.7	1714.6	1609.6	1558.2	1552.2	1538.4	1532.4	1532.4
37.5°	2492.7	2387.7	2120.4	1880.9	1680.9	1550.2	1488.9	1469.1	1453.2	1451.2	1451.2
40°	2601.6	2474.8	2158.1	1865.0	1645.3	1488.9	1407.7	1374.0	1376.0	1383.9	1383.9
42.5°	2730.2	2581.8	2205.6	1857.1	1593.8	1425.5	1312.7	1273.1	1286.9	1294.8	1296.8
45°	2880.7	2708.5	2259.0	1847.2	1546.3	1354.2	1211.7	1162.2	1168.1	1170.1	1172.1
47.5°	3054.9	2849.0	2314.5	1839.3	1492.8	1265.1	1100.8	1035.5	1033.5	1021.6	1025.6
50°	3237.1	2997.5	2371.9	1825.4	1427.5	1160.2	984.0	906.8	890.9	873.1	875.1
52.5°	3431.1	3150.0	2425.3	1803.7	1346.3	1053.3	873.1	790.0	758.3	738.5	742.5
55°	3645.0	3306.4	2476.8	1770.0	1261.2	946.4	774.1	689.0	649.4	633.6	635.5
57.5°	3841.0	3456.9	2514.4	1728.4	1168.1	849.4	687.0	603.9	578.1	576.1	578.1
60°	4031.0	3583.6	2530.3	1671.0	1073.1	760.3	605.8	542.5	524.7	534.6	536.5
62.5°	4191.4	3664.7	2522.4	1593.8	976.1	675.1	540.5	495.0	483.1	502.9	504.9
65°	4284.5	3690.5	2466.9	1482.9	871.1	592.0	479.1	429.6	423.7	435.6	441.5
67.5°	4161.7	3530.1	2316.5	1330.5	754.3	514.8	419.7	380.1	370.2	380.1	380.1
70°	3688.5	3058.9	1960.1	1088.9	625.6	439.5	364.3	336.6	328.7	336.6	334.6
72.5°	3072.8	2544.1	1544.3	849.4	493.0	370.2	316.8	291.0	283.1	275.2	271.2
75°	2383.8	1932.4	1120.6	623.7	372.2	297.0	265.3	241.5	221.7	229.7	225.7
77.5°	1746.3	1356.2	793.9	431.6	267.3	229.7	207.9	190.1	176.2	192.0	190.1
80°	1124.6	877.1	530.6	289.1	184.1	160.4	152.5	142.6	156.4	203.9	207.9
82.5°	687.0	556.3	316.8	188.1	120.8	106.9	99.0	99.0	160.4	176.2	178.2
85°	306.9	295.0	172.2	97.0	67.3	61.4	55.4	71.3	65.3	47.5	49.5
87.5°	49.5	51.5	37.6	33.7	25.7	25.7	19.8	13.9	9.9	5.9	5.9
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)