

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: P836687

Luminaire Tested: **ARCH3-60-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836687
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: ARCH3-60-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

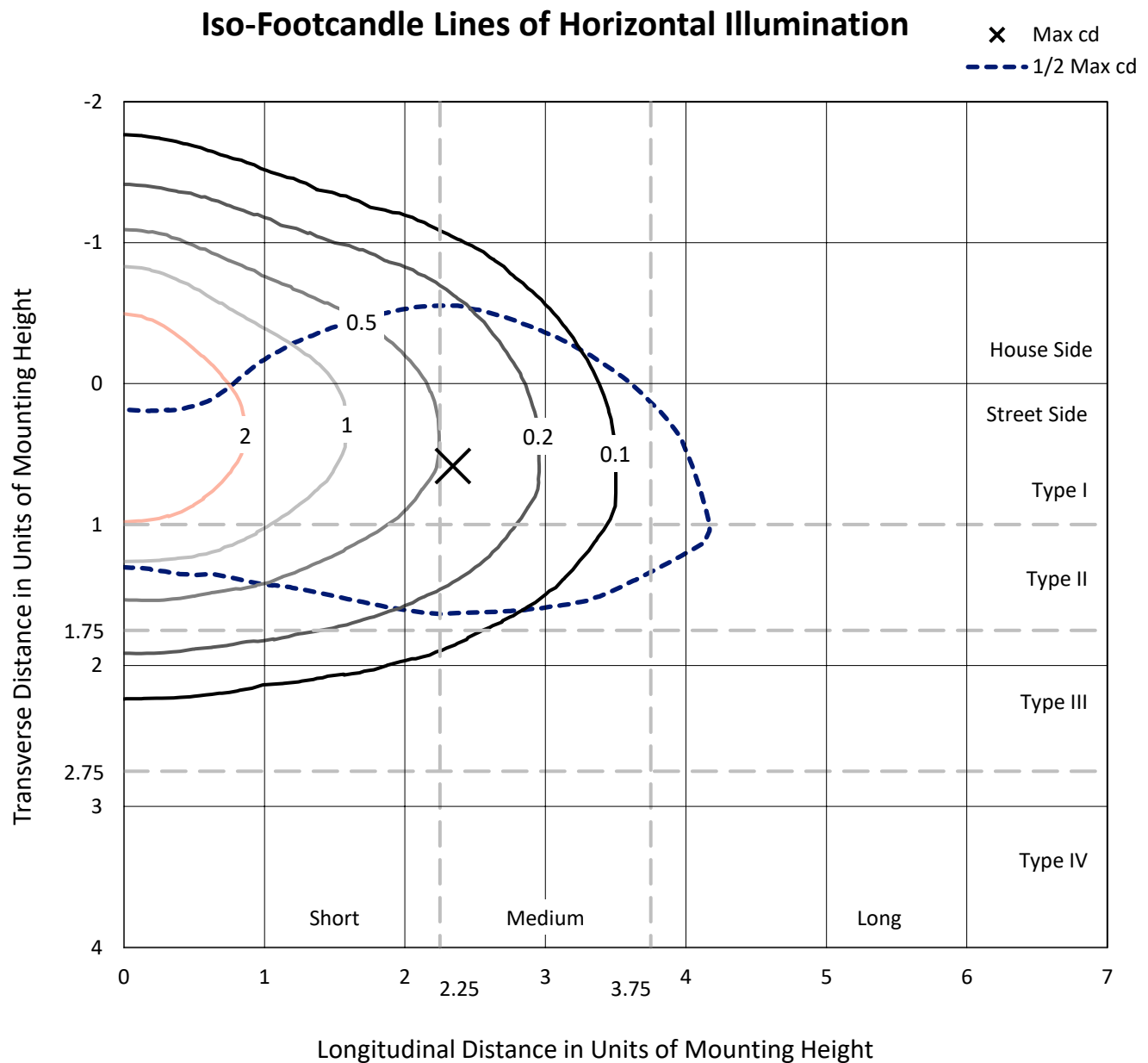
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10479 lumens
Efficiency: N/A
Efficacy: 165.8 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



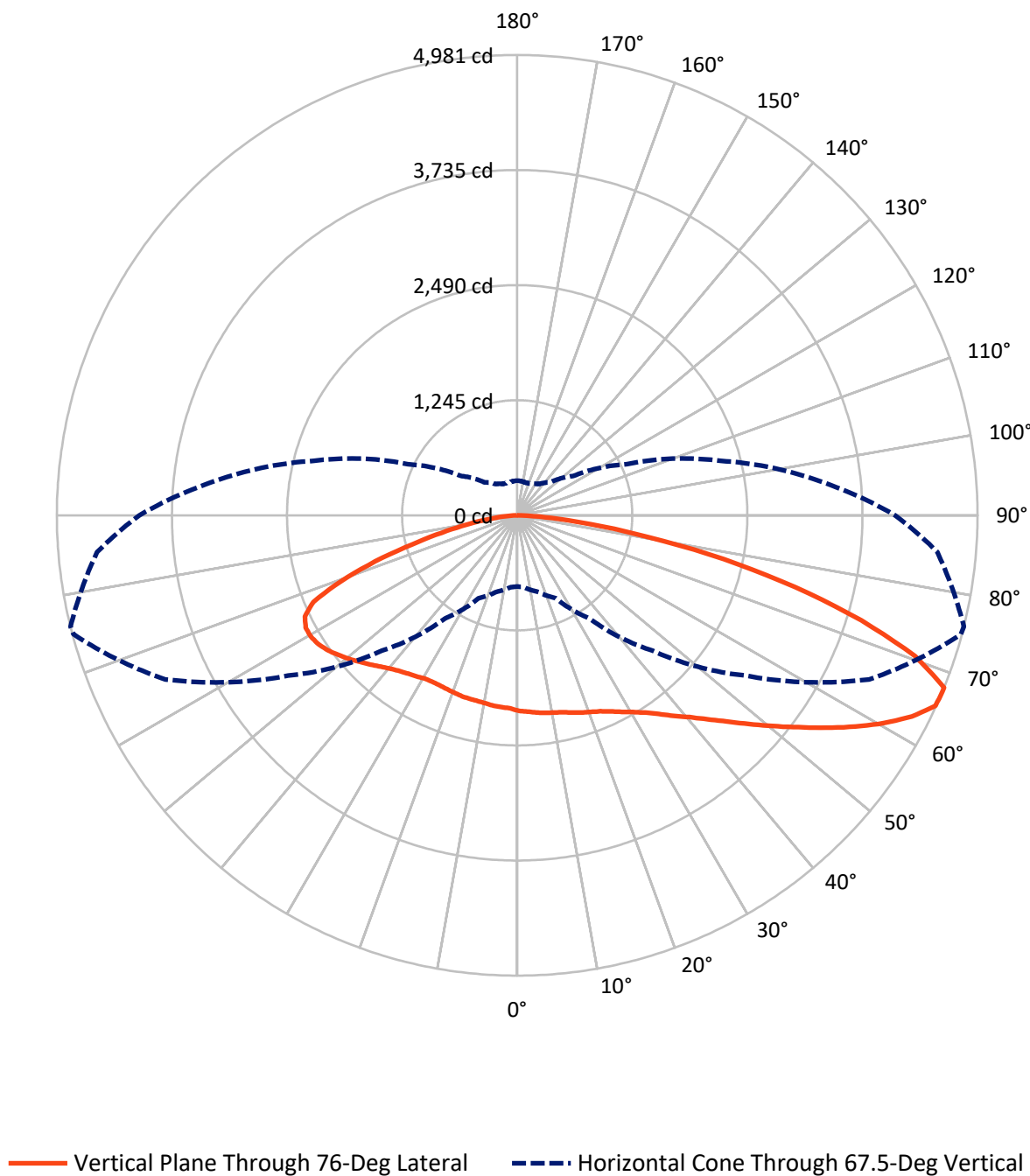
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Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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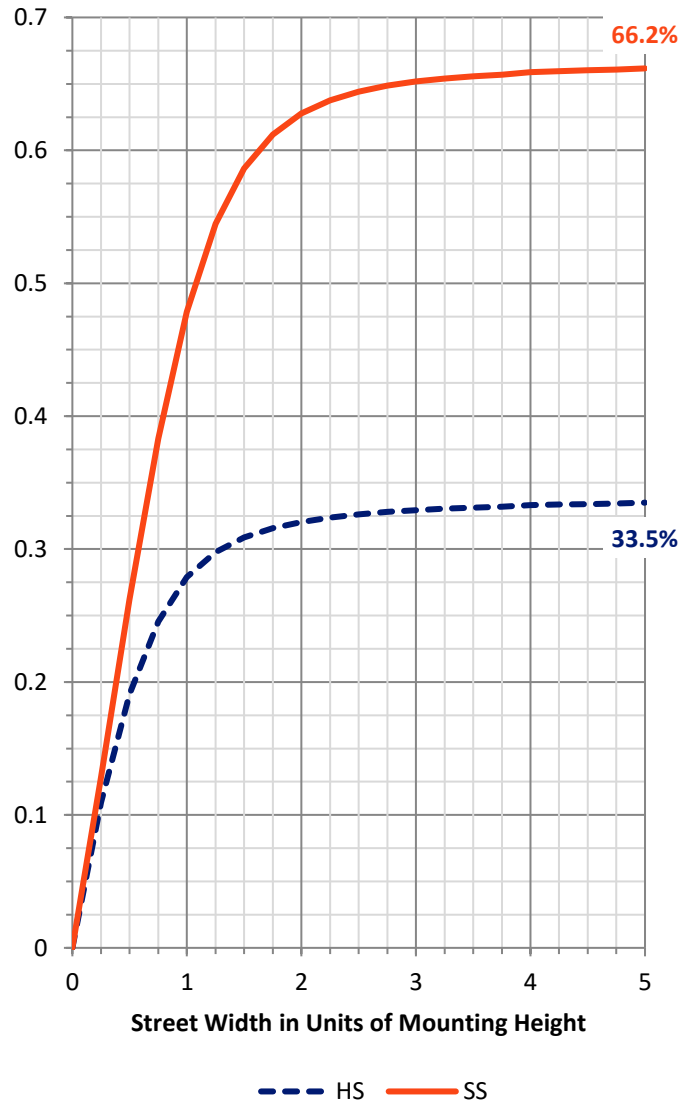
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3540.9	0.0	3540.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6938.1	0.0	6938.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	10479.0	0.0	10479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	1.9
10°-20°	624.0	6.0
20°-30°	1060.2	10.1
30°-40°	1508.5	14.4
40°-50°	1905.2	18.2
50°-60°	2062.8	19.7
60°-70°	1918.6	18.3
70°-80°	1030.5	9.8
80°-90°	165.1	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°	10479.0	100.0
0°-180°	10479.0	100.0

Coefficient of Utilization



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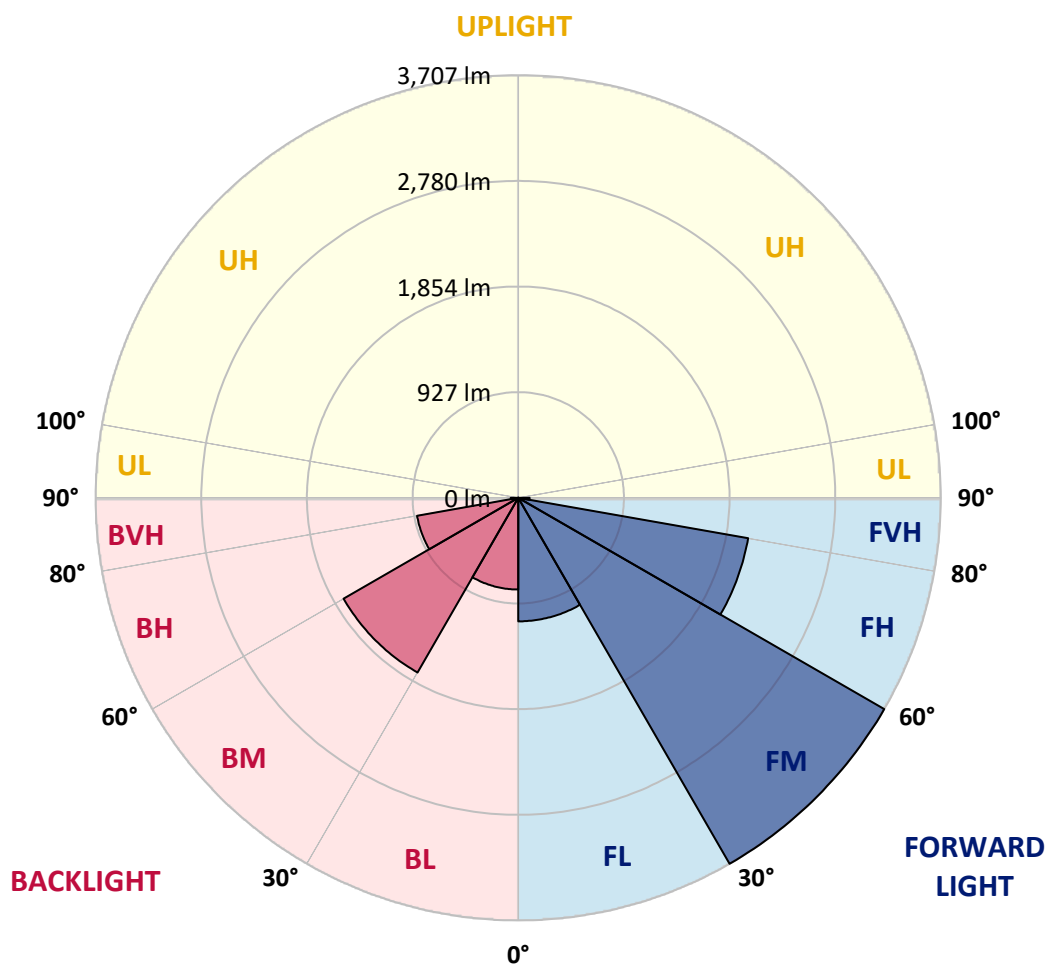
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.6	10.3			
FM	(30°-60°)	3707.1	35.4			
FH	(60°-80°)	2047.5	19.5			G2/5000
FVH	(80°-90°)	99.9	1.0			G1/100
BL	(0°-30°)	804.7	7.7	B2/1000		
BM	(30°-60°)	1769.4	16.9	B2/2500		
BH	(60°-80°)	901.5	8.6	B2/1000		G2/1000
BVH	(80°-90°)	65.2	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°	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7
2.5°	2180.9	2177.0	2161.5	2163.4	2163.4	2161.5	2138.1	2128.4	2128.4	2126.5	2105.1
5°	2258.8	2252.9	2235.4	2231.5	2223.7	2214.0	2177.0	2155.6	2145.9	2144.0	2114.8
7.5°	2350.2	2342.4	2321.0	2309.3	2289.9	2264.6	2217.9	2184.8	2161.5	2159.5	2118.7
10°	2441.6	2433.9	2408.6	2387.2	2359.9	2319.1	2258.8	2210.1	2173.2	2169.3	2120.6
12.5°	2550.6	2542.8	2511.7	2484.4	2443.6	2389.1	2309.3	2243.2	2192.6	2186.8	2126.5
15°	2665.4	2653.7	2622.6	2591.4	2540.9	2470.8	2375.5	2287.9	2223.7	2214.0	2144.0
17.5°	2760.7	2745.1	2719.8	2688.7	2632.3	2550.6	2441.6	2332.7	2252.9	2245.1	2161.5
20°	2842.4	2830.7	2803.5	2774.3	2714.0	2624.5	2503.9	2377.4	2280.2	2270.4	2175.1
22.5°	2920.2	2904.7	2889.1	2867.7	2801.6	2702.3	2575.9	2431.9	2315.2	2303.5	2192.6
25°	3009.7	2992.2	2986.4	2974.7	2896.9	2795.7	2663.4	2500.0	2363.8	2350.2	2223.7
27.5°	3120.6	3101.2	3089.5	3089.5	2996.1	2891.1	2756.8	2579.8	2420.2	2408.6	2262.6
30°	3237.4	3214.0	3196.5	3196.5	3091.4	2986.4	2848.3	2659.5	2484.4	2470.8	2313.2
32.5°	3340.5	3317.1	3297.7	3295.7	3186.8	3081.7	2943.6	2747.1	2562.3	2544.8	2375.5
35°	3420.2	3398.8	3381.3	3385.2	3282.1	3179.0	3050.6	2863.8	2659.5	2640.1	2457.2
37.5°	3468.9	3461.1	3451.4	3465.0	3369.7	3272.4	3161.5	2976.7	2770.4	2752.9	2558.4
40°	3494.2	3488.3	3527.2	3544.8	3443.6	3356.0	3272.4	3093.4	2891.1	2871.6	2675.1
42.5°	3531.1	3579.8	3595.3	3591.4	3498.1	3420.2	3373.5	3219.8	3033.1	3015.6	2815.2
45°	3398.8	3387.2	3472.8	3519.5	3502.0	3461.1	3468.9	3371.6	3198.4	3180.9	2976.7
47.5°	3221.8	3206.2	3254.9	3369.7	3437.7	3476.7	3554.5	3529.2	3389.1	3373.5	3165.4
50°	2848.3	2869.7	3050.6	3204.3	3338.5	3472.8	3626.5	3698.4	3599.2	3583.7	3367.7
52.5°	2433.9	2455.3	2644.0	2998.1	3217.9	3443.6	3679.0	3867.7	3826.9	3809.3	3583.7
55°	2132.3	2179.0	2393.0	2649.8	3046.7	3352.1	3710.1	4040.9	4072.0	4056.4	3819.1
57.5°	1832.7	1867.7	2029.2	2256.8	2813.2	3192.6	3708.2	4202.3	4328.8	4313.2	4058.4
60°	1480.5	1525.3	1653.7	1898.8	2501.9	3002.0	3653.7	4328.8	4575.9	4564.2	4289.9
62.5°	1239.3	1252.9	1344.4	1556.4	2101.2	2760.7	3531.1	4396.9	4799.6	4791.8	4498.1
65°	998.1	1000.0	1083.7	1260.7	1714.0	2461.1	3323.0	4371.6	4968.9	4972.8	4647.9
67.5°	770.4	780.2	856.0	990.3	1361.9	2072.0	3025.3	4200.4	4970.8	4980.6	4562.3
70°	533.1	540.9	655.6	786.0	1052.5	1651.8	2622.6	3747.1	4562.3	4570.0	4089.5
72.5°	375.5	379.4	501.9	628.4	823.0	1245.1	1978.6	3099.2	3889.1	3894.9	3439.7
75°	280.2	284.0	354.1	476.7	630.4	861.9	1352.1	2373.5	3107.0	3107.0	2716.0
77.5°	198.4	200.4	229.6	328.8	420.2	581.7	813.2	1554.5	2280.2	2284.1	1978.6
80°	134.2	136.2	149.8	221.8	262.6	315.2	441.6	815.2	1437.7	1443.6	1256.8
82.5°	70.0	73.9	83.7	112.8	132.3	175.1	227.6	414.4	795.7	811.3	754.9
85°	27.2	27.2	31.1	37.0	48.6	68.1	105.1	157.6	359.9	371.6	332.7
87.5°	9.7	9.7	11.7	11.7	13.6	15.6	17.5	23.3	40.9	40.9	38.9
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°	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7	2116.7
2.5°	2097.3	2097.3	2087.6	2091.4	2089.5	2085.6	2081.7	2087.6	2081.7	2068.1	2066.2
5°	2101.2	2097.3	2081.7	2079.8	2073.9	2066.2	2056.4	2060.3	2050.6	2038.9	2037.0
7.5°	2103.1	2095.3	2073.9	2066.2	2054.5	2038.9	2023.3	2023.3	2009.7	1998.1	1996.1
10°	2099.2	2089.5	2060.3	2044.8	2023.3	2000.0	1978.6	1972.8	1957.2	1943.6	1943.6
12.5°	2101.2	2087.6	2050.6	2025.3	1996.1	1966.9	1939.7	1931.9	1918.3	1904.7	1902.7
15°	2112.8	2093.4	2046.7	2013.6	1970.8	1937.7	1908.6	1902.7	1891.1	1881.3	1881.3
17.5°	2124.5	2099.2	2040.9	1994.2	1941.6	1904.7	1877.4	1877.4	1869.7	1863.8	1863.8
20°	2130.4	2101.2	2029.2	1966.9	1906.6	1867.7	1842.4	1846.3	1844.4	1842.4	1842.4
22.5°	2144.0	2105.1	2019.5	1941.6	1869.7	1828.8	1805.5	1811.3	1809.3	1809.3	1811.3
25°	2165.4	2114.8	2011.7	1918.3	1834.6	1789.9	1764.6	1768.5	1768.5	1768.5	1768.5
27.5°	2194.6	2134.2	2009.7	1896.9	1799.6	1749.0	1717.9	1717.9	1710.1	1712.1	1714.0
30°	2239.3	2171.2	2013.6	1877.4	1762.6	1698.4	1661.5	1655.6	1653.7	1657.6	1659.5
32.5°	2293.8	2221.8	2037.0	1863.8	1723.7	1642.0	1595.3	1593.4	1587.6	1587.6	1587.6
35°	2361.9	2270.4	2058.4	1861.9	1684.8	1581.7	1531.1	1525.3	1511.7	1505.8	1505.8
37.5°	2449.4	2346.3	2083.7	1848.3	1651.8	1523.3	1463.0	1443.6	1428.0	1426.1	1426.1
40°	2556.4	2431.9	2120.6	1832.7	1616.7	1463.0	1383.3	1350.2	1352.1	1359.9	1359.9
42.5°	2682.9	2537.0	2167.3	1824.9	1566.2	1400.8	1289.9	1251.0	1264.6	1272.4	1274.3
45°	2830.7	2661.5	2219.8	1815.2	1519.5	1330.7	1190.7	1142.0	1147.9	1149.8	1151.8
47.5°	3002.0	2799.6	2274.3	1807.4	1466.9	1243.2	1081.7	1017.5	1015.6	1003.9	1007.8
50°	3180.9	2945.5	2330.7	1793.8	1402.7	1140.1	966.9	891.1	875.5	858.0	859.9
52.5°	3371.6	3095.3	2383.3	1772.4	1323.0	1035.0	858.0	776.3	745.1	725.7	729.6
55°	3581.7	3249.0	2433.9	1739.3	1239.3	930.0	760.7	677.0	638.1	622.6	624.5
57.5°	3774.3	3396.9	2470.8	1698.4	1147.9	834.6	675.1	593.4	568.1	566.1	568.1
60°	3961.1	3521.4	2486.4	1642.0	1054.5	747.1	595.3	533.1	515.6	525.3	527.2
62.5°	4118.7	3601.2	2478.6	1566.2	959.1	663.4	531.1	486.4	474.7	494.2	496.1
65°	4210.1	3626.5	2424.1	1457.2	856.0	581.7	470.8	422.2	416.3	428.0	433.9
67.5°	4089.5	3468.9	2276.3	1307.4	741.2	505.8	412.5	373.5	363.8	373.5	373.5
70°	3624.5	3005.8	1926.1	1070.0	614.8	431.9	358.0	330.7	323.0	330.7	328.8
72.5°	3019.5	2500.0	1517.5	834.6	484.4	363.8	311.3	286.0	278.2	270.4	266.5
75°	2342.4	1898.8	1101.2	612.8	365.8	291.8	260.7	237.4	217.9	225.7	221.8
77.5°	1716.0	1332.7	780.2	424.1	262.6	225.7	204.3	186.8	173.2	188.7	186.8
80°	1105.1	861.9	521.4	284.0	180.9	157.6	149.8	140.1	153.7	200.4	204.3
82.5°	675.1	546.7	311.3	184.8	118.7	105.1	97.3	97.3	157.6	173.2	175.1
85°	301.6	289.9	169.3	95.3	66.1	60.3	54.5	70.0	64.2	46.7	48.6
87.5°	48.6	50.6	37.0	33.1	25.3	25.3	19.5	13.6	9.7	5.8	5.8
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)