

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: P1210427

Luminaire Tested: **ARCH3-120-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17145 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.7
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

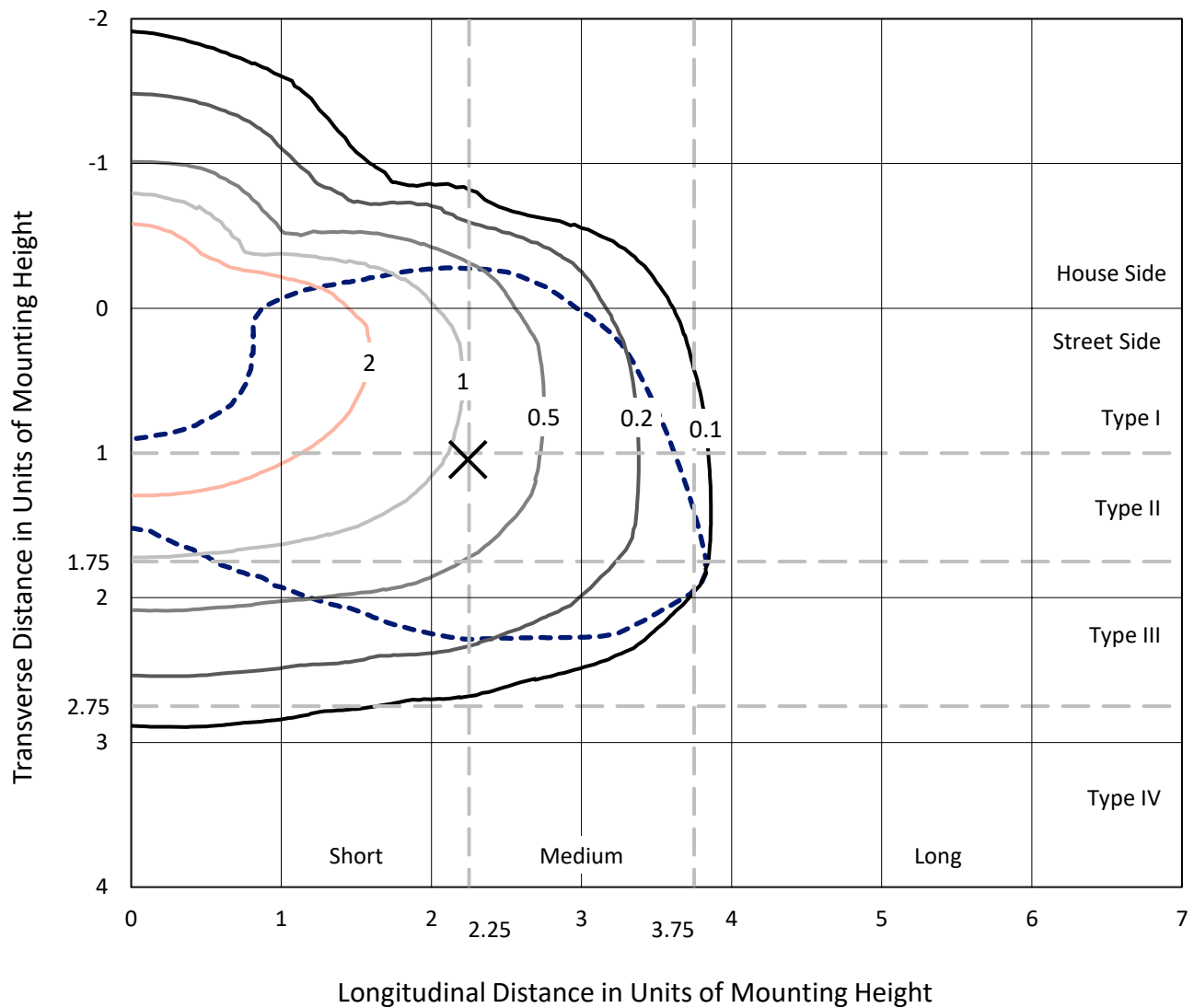


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

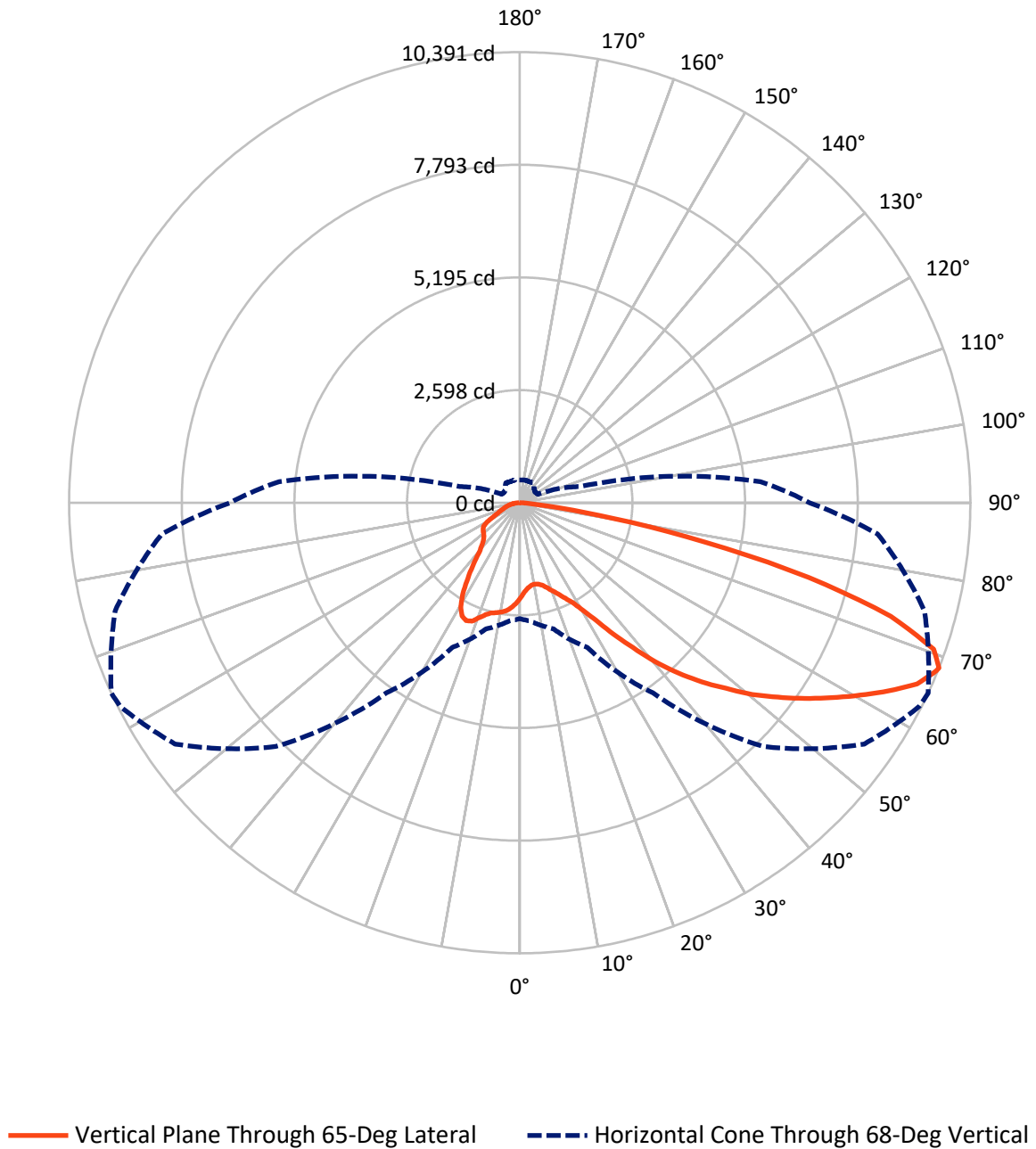


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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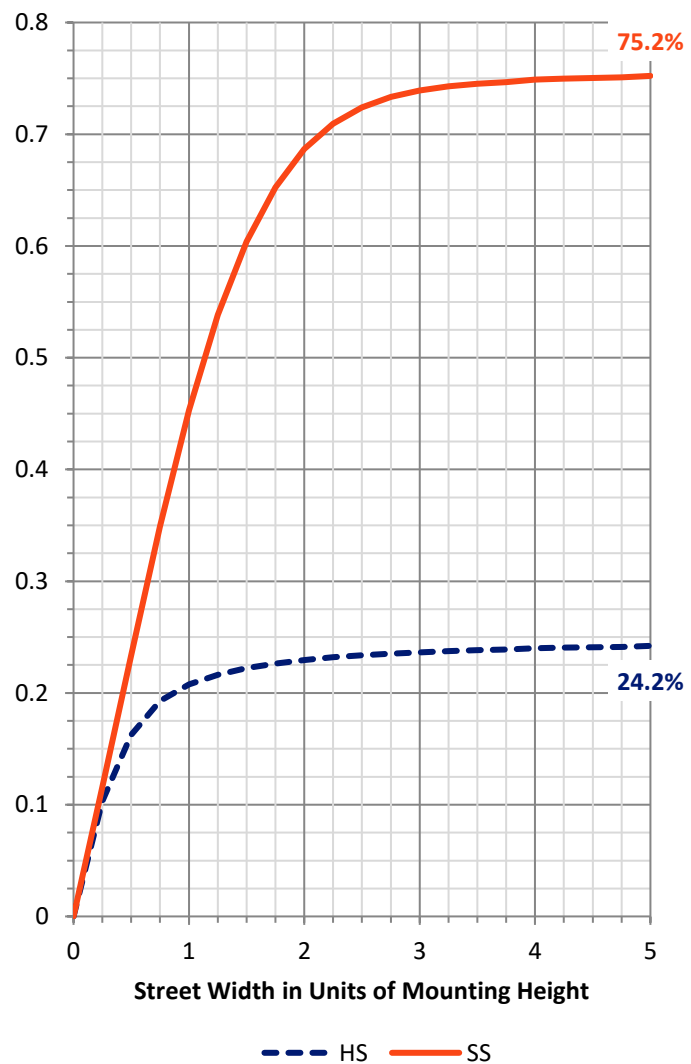
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4203.4	0.0	4203.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	12941.6	0.0	12941.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	17145.0	0.0	17145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	1.2
10°-20°	681.8	4.0
20°-30°	1233.9	7.2
30°-40°	1941.1	11.3
40°-50°	2891.1	16.9
50°-60°	3792.5	22.1
60°-70°	4147.3	24.2
70°-80°	2052.2	12.0
80°-90°	195.8	1.1
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°	17145.0	100.0
0°-180°	17145.0	100.0

Coefficient of Utilization



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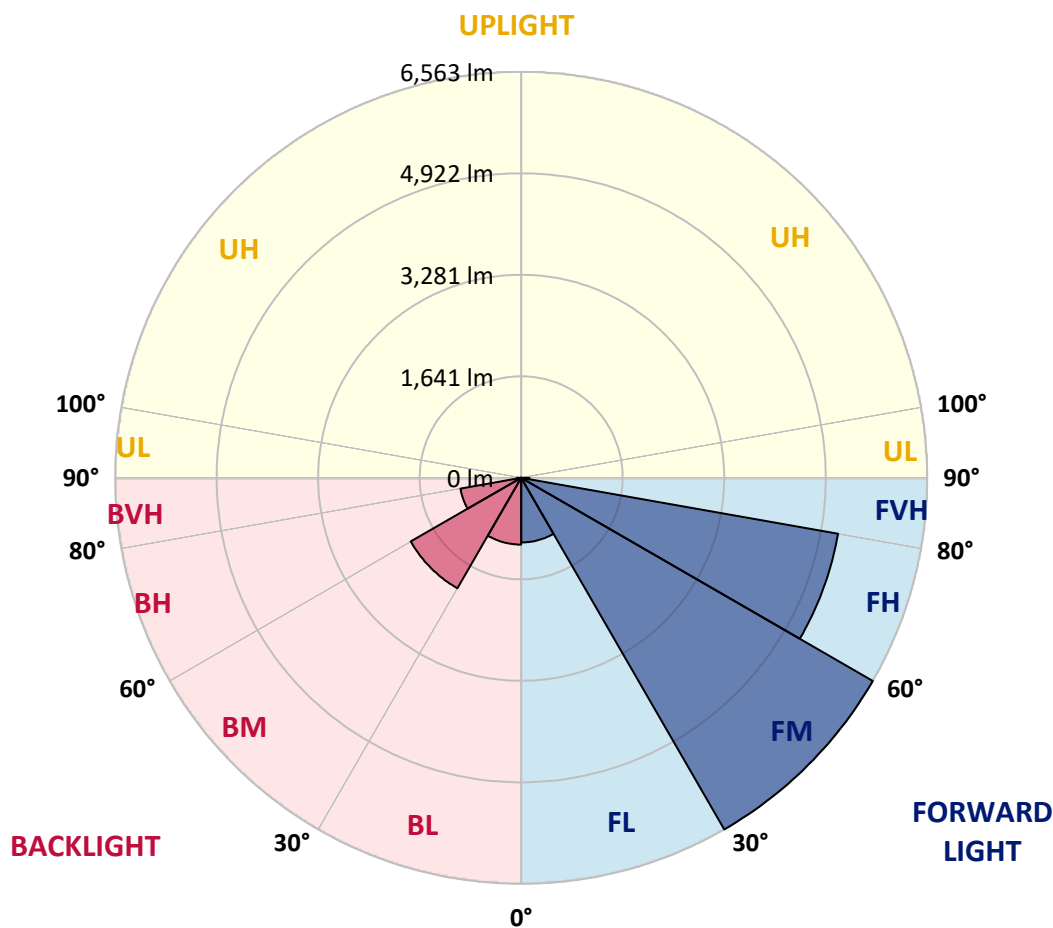
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1045.2	6.1			
FM	(30°-60°)	6562.9	38.3			
FH	(60°-80°)	5201.8	30.3			G3/7500
FVH	(80°-90°)	131.7	0.8			G2/225
BL	(0°-30°)	1079.9	6.3	B3/2500		
BM	(30°-60°)	2061.8	12.0	B2/2500		
BH	(60°-80°)	997.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	64.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9
2.5°	1912.4	1907.9	1919.0	1930.0	1954.4	1983.1	2022.9	2056.1	2060.5	2122.4	2171.0
5°	1799.6	1793.0	1804.0	1817.3	1828.3	1863.7	1905.7	1954.4	1974.3	2064.9	2168.8
7.5°	1810.7	1808.5	1812.9	1808.5	1808.5	1823.9	1852.7	1901.3	1923.4	2031.7	2179.9
10°	1874.8	1879.2	1881.4	1868.1	1854.9	1848.2	1857.1	1890.3	1905.7	2034.0	2228.5
12.5°	1980.9	1987.5	1989.7	1965.4	1947.7	1919.0	1903.5	1916.8	1927.8	2056.1	2297.0
15°	2124.6	2129.0	2113.5	2098.1	2053.9	2018.5	1980.9	1969.8	1974.3	2102.5	2374.4
17.5°	2292.6	2286.0	2286.0	2248.4	2190.9	2135.7	2073.7	2064.9	2064.9	2177.7	2485.0
20°	2476.1	2482.8	2462.9	2412.0	2354.5	2268.3	2206.4	2166.6	2171.0	2263.9	2619.8
22.5°	2741.4	2752.5	2699.4	2626.5	2538.0	2438.5	2350.1	2286.0	2288.2	2376.6	2759.1
25°	3026.6	3031.0	2997.9	2900.6	2781.2	2639.7	2522.5	2440.7	2438.5	2502.6	2938.2
27.5°	3318.4	3338.3	3272.0	3179.2	3068.6	2891.8	2737.0	2626.5	2608.8	2695.0	3161.5
30°	3619.1	3643.4	3579.3	3488.7	3351.6	3201.3	3017.8	2889.5	2878.5	2993.5	3459.9
32.5°	3922.0	3928.6	3877.8	3802.6	3678.8	3537.3	3389.2	3247.7	3236.6	3424.6	3846.8
35°	4169.6	4189.5	4154.1	4136.4	4045.8	3915.4	3771.7	3689.9	3718.6	3959.6	4348.7
37.5°	4468.1	4488.0	4448.2	4443.7	4415.0	4302.3	4202.8	4209.4	4238.1	4565.3	4877.1
40°	4899.2	4921.3	4819.6	4775.4	4775.4	4664.8	4631.7	4788.6	4826.2	5162.3	5427.6
42.5°	5264.0	5299.3	5239.6	5210.9	5124.7	5047.3	5087.1	5308.2	5372.3	5732.7	5907.3
45°	5440.8	5467.4	5538.1	5622.1	5538.1	5403.2	5553.6	5803.4	5894.0	6258.8	6387.1
47.5°	5535.9	5560.2	5642.0	5867.5	5925.0	5812.2	6024.5	6336.2	6398.1	6780.6	6844.7
50°	5549.2	5626.5	5732.7	5958.2	6221.2	6236.7	6497.6	6877.9	6950.8	7293.5	7247.1
52.5°	5440.8	5471.8	5690.7	6070.9	6362.7	6628.0	7012.7	7397.4	7450.5	7775.5	7603.0
55°	5264.0	5308.2	5527.0	6044.4	6499.8	6999.5	7536.7	7908.1	7967.8	8244.1	7932.4
57.5°	5104.8	5126.9	5361.2	5967.0	6636.9	7370.9	8003.2	8440.9	8480.7	8655.4	8175.6
60°	4927.9	4952.2	5186.6	5801.2	6738.6	7651.6	8489.5	8978.1	9013.5	9088.7	8458.6
62.5°	4470.3	4534.4	4828.4	5527.0	6712.0	7972.2	9009.1	9508.7	9553.0	9471.2	8681.9
65°	3630.2	3720.8	4081.2	4905.8	6464.4	8180.0	9433.6	9997.3	10072.5	9758.6	8741.6
67.5°	2818.8	2882.9	3172.5	3893.3	5595.6	8076.1	9707.7	10333.4	10355.5	9712.1	8410.0
68°	2672.9	2737.0	3013.3	3681.0	5354.6	7952.3	9701.1	10342.2	10390.9	9661.3	8281.7
70°	2045.0	2118.0	2381.1	2916.1	4315.5	7165.3	9296.5	10130.0	10123.3	9046.7	7485.8
72.5°	1277.9	1319.9	1501.1	1839.4	2854.2	5451.9	7890.4	8933.9	8951.6	7375.3	5741.5
75°	811.4	811.4	802.5	891.0	1463.6	3106.2	5865.3	6877.9	6891.1	5164.5	3619.1
77.5°	705.3	685.4	590.3	499.6	583.7	1207.1	3471.0	4441.5	4368.6	2781.2	1717.8
80°	594.7	561.5	484.2	402.4	375.8	378.1	1333.1	2255.0	2157.8	1001.5	570.4
82.5°	428.9	400.2	364.8	316.1	289.6	225.5	278.6	652.2	636.7	289.6	185.7
85°	232.1	210.0	205.6	207.8	174.7	139.3	117.2	143.7	143.7	126.0	106.1
87.5°	81.8	59.7	70.7	79.6	68.5	57.5	46.4	55.3	57.5	55.3	50.8
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°	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9	2190.9
2.5°	2199.8	2221.9	2274.9	2321.4	2354.5	2383.3	2398.7	2405.4	2420.8	2423.1	2418.6
5°	2217.5	2274.9	2354.5	2423.1	2460.6	2476.1	2480.5	2482.8	2476.1	2480.5	2476.1
7.5°	2263.9	2336.8	2449.6	2509.3	2515.9	2491.6	2493.8	2485.0	2493.8	2502.6	2502.6
10°	2334.6	2427.5	2533.6	2555.7	2527.0	2513.7	2540.2	2593.3	2611.0	2635.3	2635.3
12.5°	2427.5	2538.0	2613.2	2593.3	2566.8	2611.0	2688.4	2741.4	2759.1	2767.9	2761.3
15°	2533.6	2653.0	2690.6	2624.2	2672.9	2767.9	2794.5	2763.5	2719.3	2699.4	2710.5
17.5°	2668.5	2767.9	2745.8	2701.6	2812.2	2825.4	2739.2	2639.7	2569.0	2542.4	2560.1
20°	2810.0	2896.2	2794.5	2814.4	2882.9	2741.4	2577.8	2449.6	2387.7	2376.6	2394.3
22.5°	2960.3	3015.6	2843.1	2944.8	2843.1	2555.7	2358.9	2292.6	2277.1	2294.8	2310.3
25°	3130.5	3123.9	2927.1	2984.6	2695.0	2328.0	2210.8	2206.4	2206.4	2217.5	2239.6
27.5°	3322.9	3219.0	3011.1	2931.5	2438.5	2140.1	2118.0	2120.2	2113.5	2115.8	2126.8
30°	3546.2	3347.2	3104.0	2756.9	2151.1	1998.6	1989.7	1983.1	1967.6	1963.2	1967.6
32.5°	3826.9	3482.0	3199.1	2469.5	1899.1	1852.7	1848.2	1812.9	1775.3	1770.9	1786.3
35°	4182.9	3727.4	3247.7	2109.1	1691.3	1689.1	1673.6	1618.3	1569.7	1569.7	1558.6
37.5°	4589.7	4043.6	3267.6	1757.6	1518.8	1529.9	1485.7	1414.9	1377.3	1355.2	1361.9
40°	5005.3	4404.0	3265.4	1450.3	1368.5	1370.7	1337.5	1251.3	1158.5	1103.2	1116.5
42.5°	5405.5	4731.2	3207.9	1286.7	1246.9	1240.3	1213.7	1096.6	1019.2	975.0	977.2
45°	5726.0	5069.4	3119.5	1189.4	1136.4	1147.4	1087.7	1017.0	946.2	906.4	904.2
47.5°	6046.6	5325.9	2978.0	1129.7	1054.6	1034.7	1010.3	961.7	908.6	864.4	866.6
50°	6338.4	5544.7	2845.3	1089.9	979.4	928.5	933.0	904.2	857.8	818.0	815.8
52.5°	6544.0	5688.4	2772.4	1067.8	888.7	833.5	849.0	833.5	789.3	760.5	758.3
55°	6749.6	5799.0	2796.7	1039.1	789.3	745.0	771.6	767.2	742.8	734.0	736.2
57.5°	6915.4	5883.0	2882.9	986.0	694.2	667.7	711.9	698.6	680.9	683.1	683.1
60°	7076.8	5991.3	2984.6	864.4	612.4	614.6	656.6	632.3	621.2	641.1	643.3
62.5°	7244.9	6108.5	2900.6	687.6	541.7	557.1	605.8	585.9	590.3	619.0	627.9
65°	7225.0	6097.4	2363.4	563.8	479.7	510.7	583.7	577.0	579.2	590.3	594.7
67.5°	6818.2	5708.3	1625.0	479.7	435.5	473.1	566.0	539.4	541.7	535.0	537.2
68°	6681.1	5571.3	1432.6	466.5	426.7	464.3	557.1	532.8	535.0	528.4	526.2
70°	5933.8	4770.9	906.4	411.2	395.7	440.0	512.9	504.1	501.9	497.4	497.4
72.5°	4523.3	3521.8	477.5	355.9	360.4	402.4	457.6	475.3	464.3	466.5	479.7
75°	2995.7	2118.0	331.6	305.1	316.1	344.9	406.8	442.2	431.1	437.7	431.1
77.5°	1585.2	1140.8	265.3	258.7	258.7	278.6	336.0	391.3	391.3	386.9	380.3
80°	519.5	402.4	212.2	203.4	207.8	218.9	269.7	320.6	327.2	318.4	313.9
82.5°	174.7	185.7	159.2	148.1	152.5	161.4	203.4	245.4	247.6	229.9	225.5
85°	108.3	123.8	99.5	97.3	97.3	99.5	123.8	134.9	123.8	110.5	115.0
87.5°	50.8	61.9	46.4	39.8	33.2	28.7	22.1	8.8	8.8	4.4	4.4
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)