

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: P836400

Luminaire Tested: **ARCH3-180-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16498 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 180.5
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

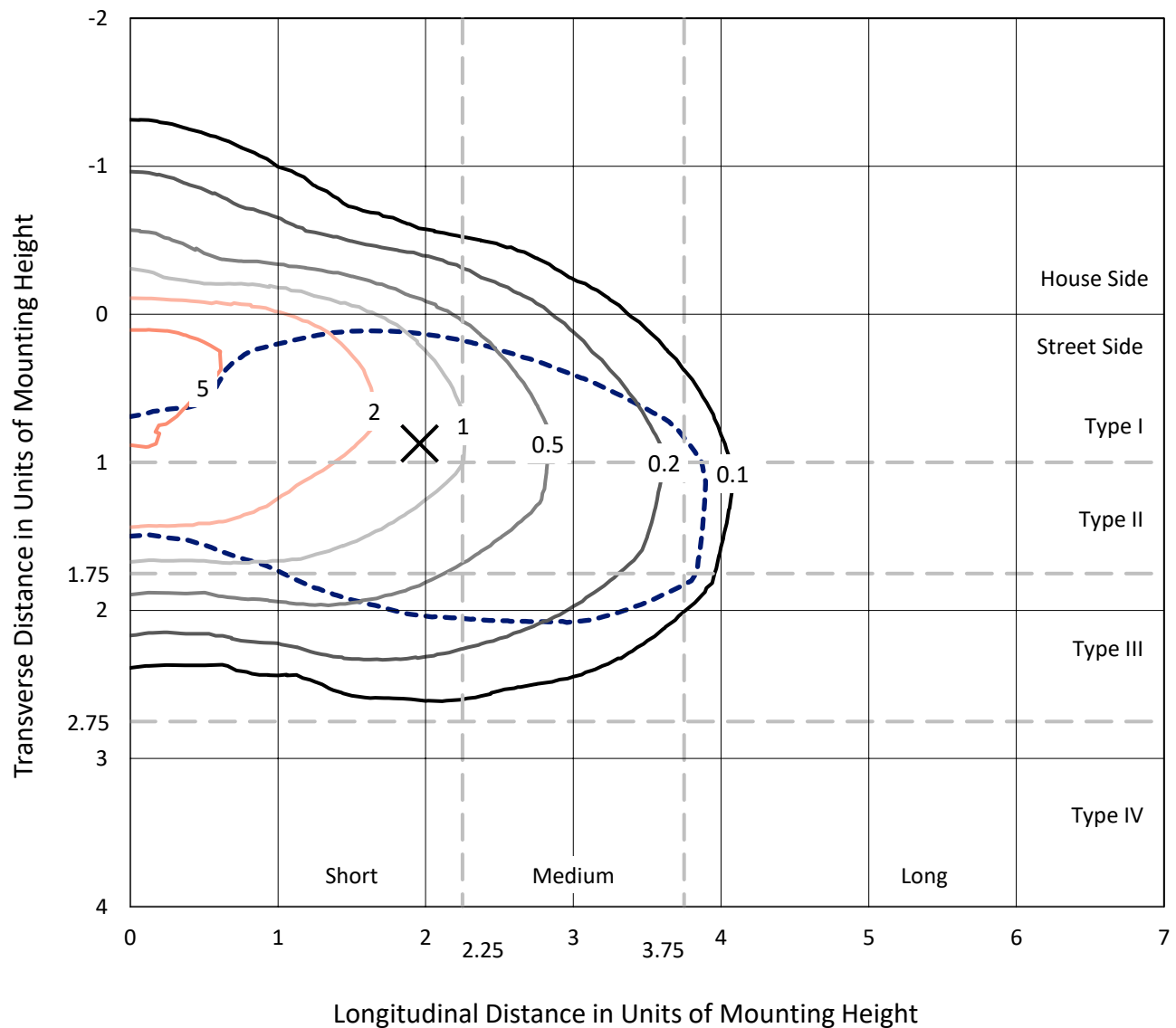


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

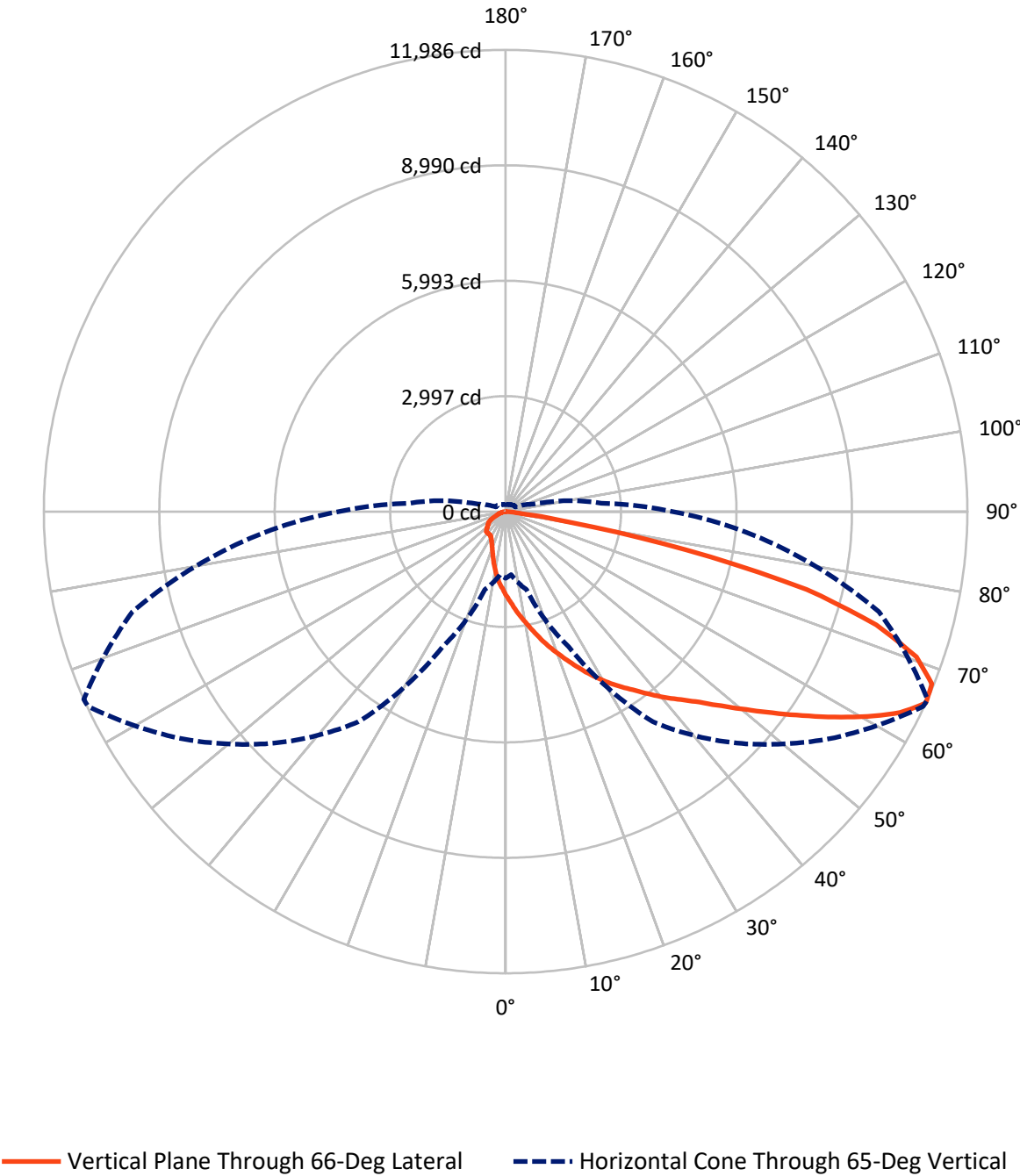


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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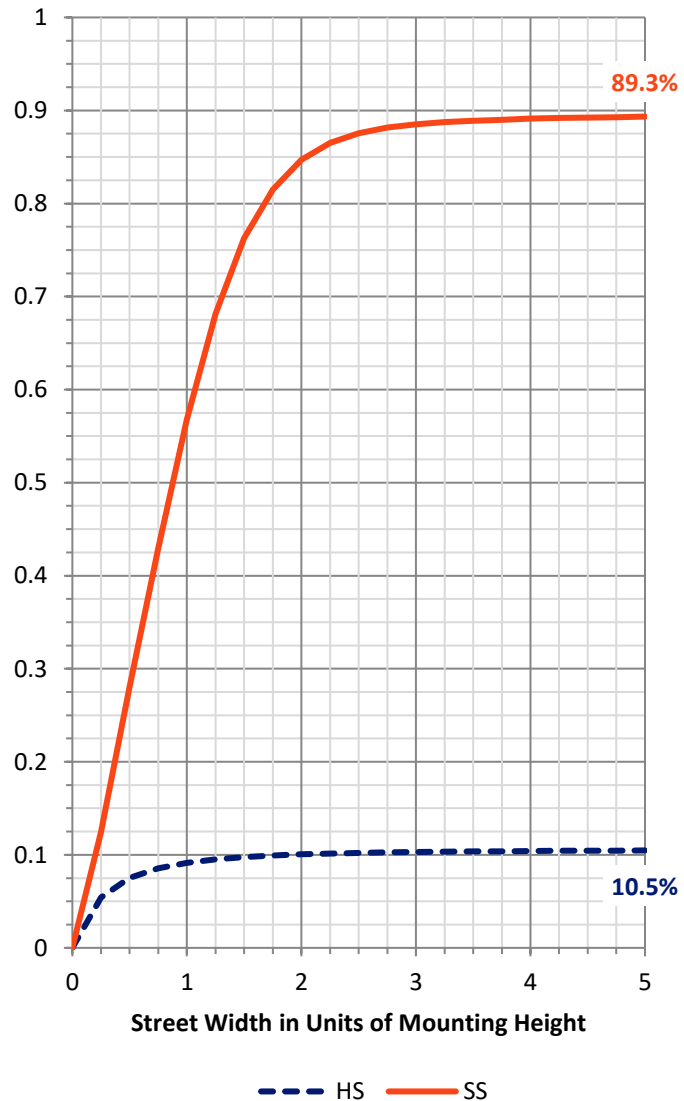
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1745.1	0.0	1745.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14753.0	0.0	14753.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	16498.0	0.0	16498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	1.3
10°-20°	702.4	4.3
20°-30°	1270.8	7.7
30°-40°	1987.3	12.0
40°-50°	3014.7	18.3
50°-60°	3830.2	23.2
60°-70°	3578.9	21.7
70°-80°	1778.7	10.8
80°-90°	119.5	0.7
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°	16498.0	100.0
0°-180°	16498.0	100.0

Coefficient of Utilization



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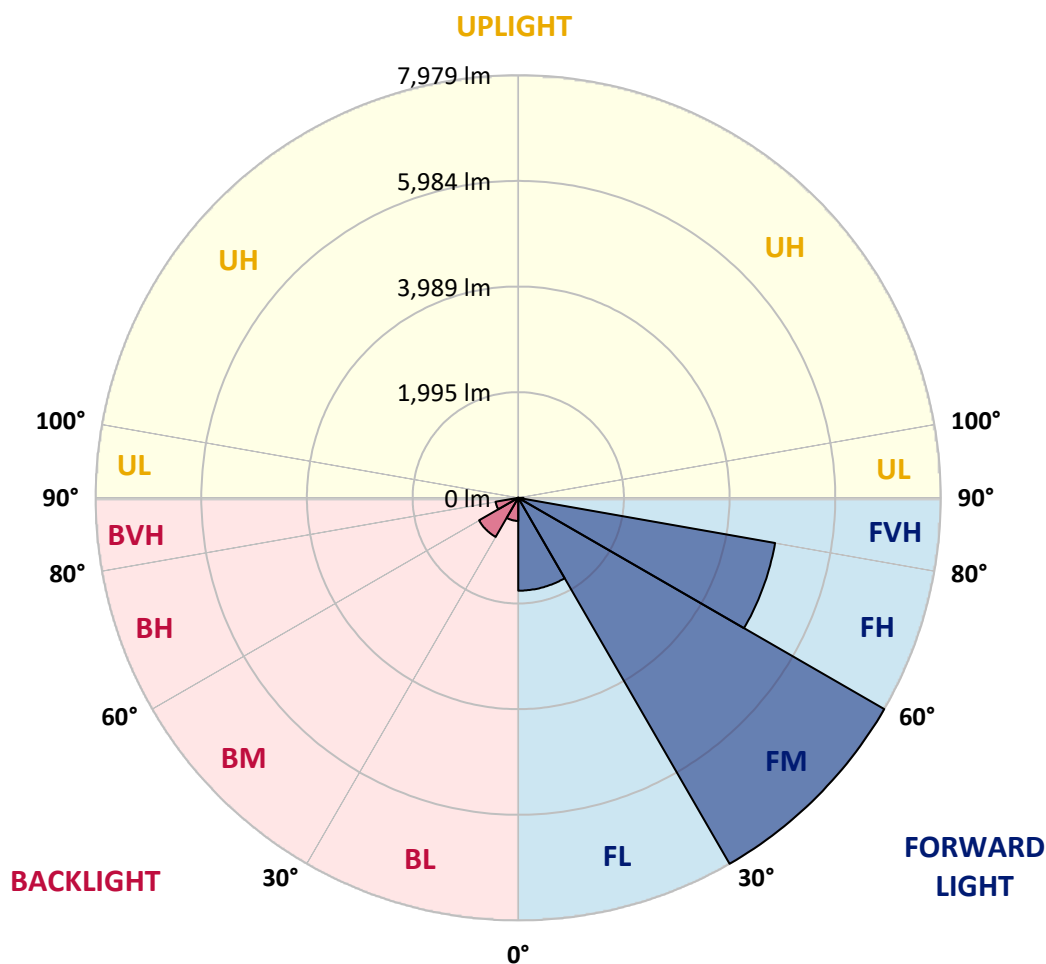
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1752.9	10.6			
FM	(30°-60°)	7978.6	48.4			
FH	(60°-80°)	4923.1	29.8			G2/5000
FVH	(80°-90°)	98.3	0.6			G1/100
BL	(0°-30°)	435.8	2.6	B1/500		
BM	(30°-60°)	853.5	5.2	B1/1000		
BH	(60°-80°)	434.6	2.6	B1/500		G1/500
BVH	(80°-90°)	21.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4
2.5°	2550.2	2571.0	2581.3	2584.8	2505.2	2470.6	2436.0	2356.4	2339.1	2294.1	2235.3
5°	3000.0	3027.7	3020.8	3007.0	2910.1	2799.3	2709.4	2560.6	2536.4	2429.1	2297.6
7.5°	3443.0	3467.2	3460.3	3408.3	3301.1	3145.4	2996.6	2778.6	2744.0	2571.0	2359.9
10°	3813.2	3834.0	3830.5	3778.6	3650.6	3460.3	3280.3	2989.7	2948.1	2702.5	2411.8
12.5°	4117.7	4145.4	4141.9	4107.3	3993.1	3785.5	3581.4	3231.9	3180.0	2861.6	2484.5
15°	4356.5	4391.1	4391.1	4377.2	4297.6	4124.6	3892.8	3498.3	3436.0	3045.0	2574.4
17.5°	4501.8	4529.5	4553.7	4577.9	4522.6	4391.1	4180.0	3764.8	3699.0	3225.0	2667.9
20°	4577.9	4605.6	4622.9	4674.8	4685.2	4619.4	4453.3	4027.7	3958.5	3429.1	2775.1
22.5°	4702.5	4726.7	4730.2	4775.1	4795.9	4813.2	4709.4	4287.3	4231.9	3654.0	2896.2
25°	4910.1	4937.8	4927.4	4948.2	4951.6	4972.4	4962.0	4584.8	4529.5	3910.1	3041.6
27.5°	5176.5	5211.1	5204.2	5183.5	5152.3	5135.0	5180.0	4885.9	4834.0	4166.1	3190.4
30°	5463.7	5505.3	5494.9	5453.4	5370.3	5297.6	5359.9	5169.6	5121.2	4429.1	3356.4
32.5°	5754.4	5802.8	5799.4	5730.2	5588.3	5463.7	5557.2	5436.1	5401.5	4712.9	3536.4
35°	5944.7	6007.0	6000.1	5958.6	5775.2	5667.9	5782.1	5709.4	5685.2	5058.9	3795.9
37.5°	6252.7	6318.4	6259.6	6155.8	5944.7	5889.4	6027.8	6017.4	6000.1	5425.7	4069.3
40°	7000.1	7097.0	6941.3	6515.7	6169.6	6121.2	6318.4	6359.9	6342.6	5789.0	4314.9
42.5°	7782.1	7927.4	7685.2	7097.0	6577.9	6401.5	6636.8	6695.6	6674.8	6100.4	4536.4
45°	8256.2	8318.4	8076.2	7619.5	7301.1	6740.6	6975.9	7072.8	7055.5	6474.1	4820.1
47.5°	8643.7	8619.5	8342.7	8034.7	8093.5	7218.1	7360.0	7550.3	7536.4	6885.9	5131.6
50°	8726.8	8671.4	8560.7	8366.9	8522.6	7702.5	7764.8	8093.5	8079.7	7342.7	5446.4
52.5°	8142.0	8069.3	8370.4	8533.0	8481.1	8055.5	8211.2	8688.7	8681.8	7837.5	5747.5
55°	6681.7	6622.9	7432.6	8273.5	8436.1	8304.6	8706.0	9308.1	9346.1	8363.4	6020.8
57.5°	5256.1	5193.8	5989.7	7622.9	8270.0	8533.0	9283.9	10017.4	10065.9	8934.4	6280.4
60°	4190.4	4096.9	4705.9	6598.7	7958.6	8709.5	9841.0	10796.0	10802.9	9456.9	6439.5
62.5°	2847.8	2744.0	3418.7	5301.1	7436.1	8737.1	10270.0	11467.3	11495.0	9847.9	6467.2
65°	1730.1	1643.6	2100.4	3872.0	6664.4	8501.8	10277.0	11962.1	11986.3	10027.8	6301.1
67.5°	1003.5	968.9	1200.7	2411.8	5384.2	7868.6	9844.4	11886.0	11931.0	9951.7	5924.0
70°	584.8	581.3	667.8	1193.8	3799.4	6612.5	8879.0	11245.8	11311.6	9553.8	5346.1
72.5°	429.1	436.0	470.6	640.1	2200.7	4761.3	7519.1	9958.6	10059.0	8775.2	4522.6
75°	339.1	342.6	373.7	436.0	1155.7	2692.1	5633.3	7993.2	8072.8	7387.6	3532.9
77.5°	252.6	259.5	283.7	308.0	536.3	1235.3	3169.6	4923.9	4792.5	4055.4	1705.9
80°	183.4	200.7	211.1	221.5	283.7	477.5	951.6	1716.3	1702.4	1771.6	806.2
82.5°	117.6	131.5	141.9	148.8	169.6	228.4	283.7	384.1	415.2	688.6	321.8
85°	51.9	58.8	65.7	79.6	72.7	79.6	117.6	76.1	65.7	103.8	58.8
87.5°	0.0	0.0	10.4	17.3	13.8	6.9	20.8	13.8	10.4	10.4	10.4
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°	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4	2183.4
2.5°	2204.2	2166.1	2086.5	2010.4	1965.4	1906.6	1854.7	1806.3	1802.8	1789.0	1764.7
5°	2231.9	2159.2	2010.4	1868.5	1761.3	1647.1	1550.2	1474.1	1446.4	1425.6	1397.9
7.5°	2259.5	2145.4	1923.9	1716.3	1546.7	1387.6	1273.4	1169.6	1138.4	1110.7	1093.4
10°	2269.9	2121.1	1823.6	1546.7	1325.3	1155.7	1034.6	958.5	930.8	917.0	906.6
12.5°	2301.1	2107.3	1730.1	1387.6	1131.5	975.8	889.3	844.3	833.9	823.5	813.2
15°	2342.6	2107.3	1636.7	1231.9	979.3	854.7	802.8	771.6	764.7	761.3	754.3
17.5°	2387.6	2107.3	1546.7	1100.4	868.5	775.1	737.0	719.7	716.3	712.8	709.4
20°	2449.9	2110.8	1449.8	986.2	788.9	716.3	685.1	664.4	660.9	657.4	657.4
22.5°	2512.1	2117.7	1356.4	899.7	737.0	671.3	633.2	612.5	605.5	605.5	605.5
25°	2591.7	2138.4	1269.9	827.0	692.1	629.8	581.3	564.0	560.6	560.6	557.1
27.5°	2685.2	2162.7	1193.8	771.6	647.1	581.3	532.9	515.6	508.7	508.7	505.2
30°	2785.5	2186.9	1131.5	730.1	602.1	532.9	487.9	467.1	460.2	463.7	460.2
32.5°	2896.2	2221.5	1083.1	702.4	560.6	491.4	449.8	425.6	422.2	422.2	418.7
35°	3083.1	2318.4	1076.1	688.6	526.0	460.2	418.7	394.5	391.0	391.0	387.5
37.5°	3283.8	2429.1	1107.3	681.7	498.3	432.5	394.5	370.2	366.8	366.8	366.8
40°	3453.3	2512.1	1141.9	681.7	481.0	408.3	373.7	352.9	352.9	352.9	352.9
42.5°	3567.5	2519.1	1135.0	681.7	467.1	391.0	359.9	339.1	339.1	342.6	339.1
45°	3737.1	2553.7	1107.3	671.3	456.8	377.2	346.0	328.7	325.3	328.7	328.7
47.5°	3937.8	2616.0	1079.6	629.8	453.3	363.3	335.6	314.9	311.4	314.9	311.4
50°	4128.1	2671.3	1065.8	574.4	446.4	349.5	321.8	301.0	297.6	301.0	297.6
52.5°	4287.3	2695.5	1041.5	536.3	429.1	335.6	308.0	287.2	280.3	283.7	283.7
55°	4415.3	2688.6	1006.9	505.2	397.9	321.8	290.7	273.4	263.0	263.0	259.5
57.5°	4532.9	2692.1	975.8	474.1	363.3	301.0	276.8	256.1	242.2	238.8	235.3
60°	4577.9	2674.8	920.4	432.5	328.7	283.7	259.5	235.3	221.5	218.0	214.5
62.5°	4515.6	2612.5	847.8	359.9	297.6	263.0	242.2	218.0	204.2	200.7	197.2
65°	4339.2	2494.8	737.0	283.7	269.9	238.8	221.5	204.2	186.9	179.9	176.5
67.5°	4038.1	2325.3	598.6	228.4	238.8	218.0	207.6	186.9	166.1	159.2	155.7
70°	3609.0	2100.4	449.8	193.8	211.1	193.8	186.9	166.1	148.8	141.9	138.4
72.5°	3007.0	1737.0	314.9	166.1	183.4	169.6	162.6	148.8	131.5	121.1	121.1
75°	2273.4	1245.7	207.6	141.9	152.3	145.3	134.9	124.6	114.2	107.3	103.8
77.5°	979.3	484.4	128.0	107.3	124.6	121.1	107.3	100.3	96.9	90.0	90.0
80°	422.2	197.2	79.6	79.6	90.0	86.5	83.0	76.1	76.1	72.7	69.2
82.5°	155.7	79.6	48.4	58.8	65.7	58.8	58.8	58.8	58.8	55.4	55.4
85°	38.1	24.2	24.2	34.6	38.1	34.6	38.1	34.6	34.6	34.6	31.1
87.5°	10.4	10.4	13.8	13.8	13.8	13.8	13.8	10.4	0.0	0.0	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)