

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: P840949

Luminaire Tested: **ARCH4-110-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13345 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 112.6
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



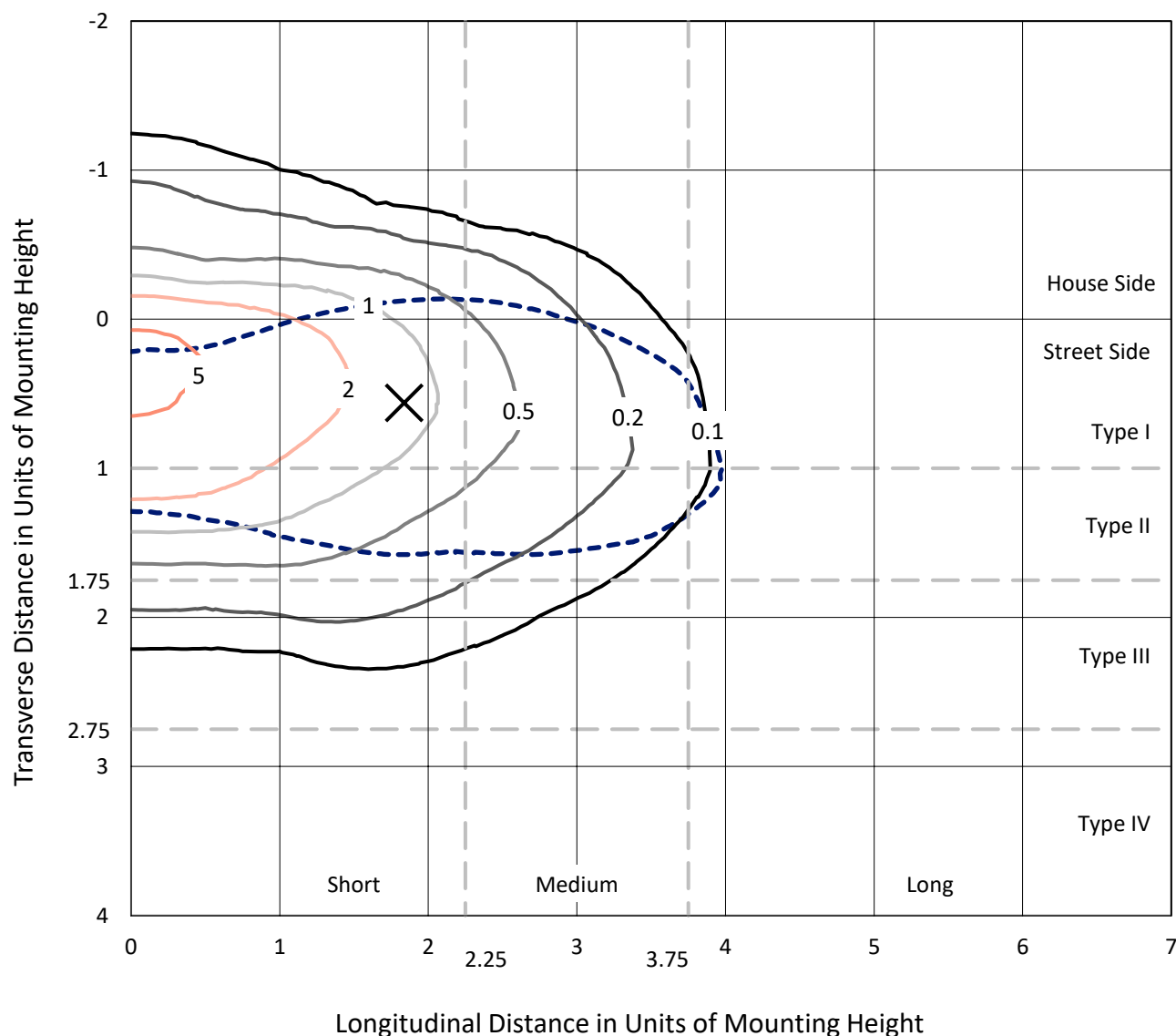
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

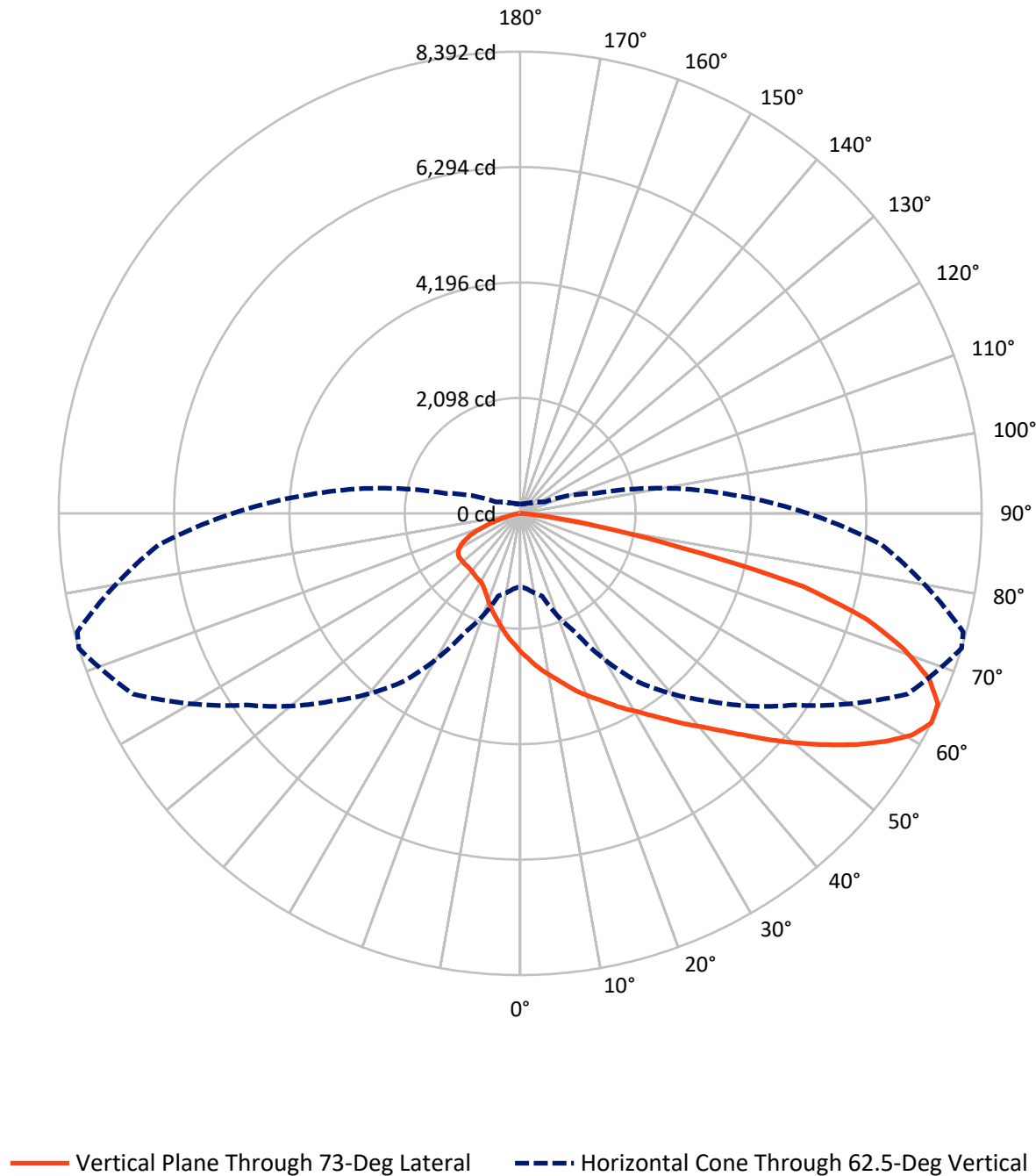


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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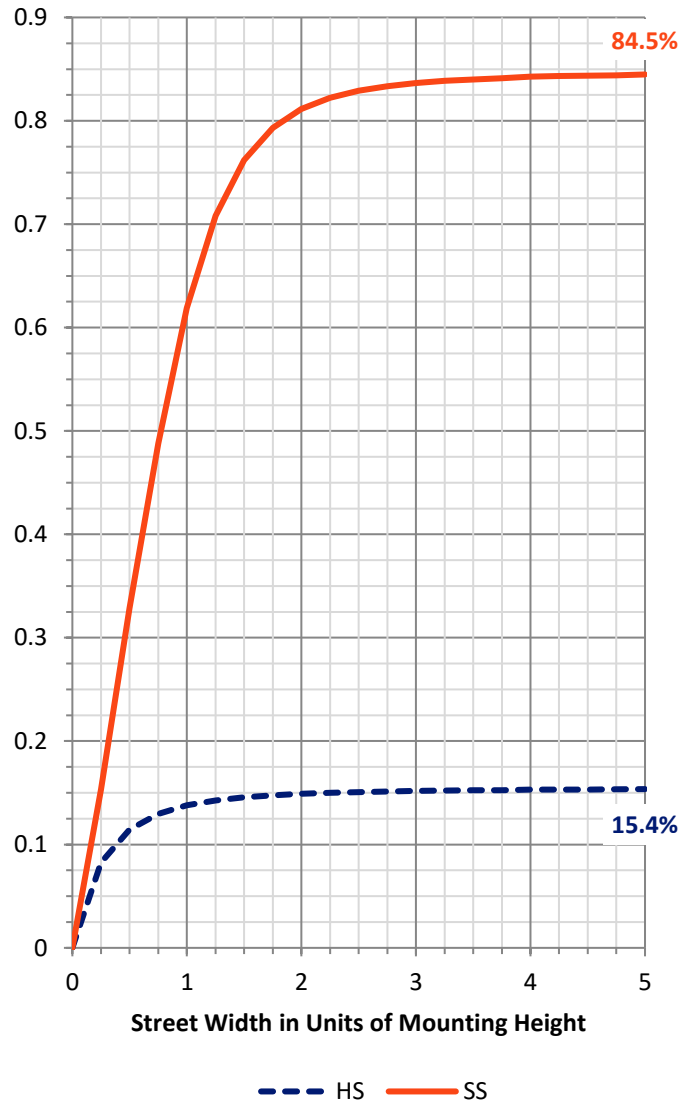
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2068.7	0.0	2068.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11276.3	0.0	11276.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	13345.0	0.0	13345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	1.8
10°-20°	736.6	5.5
20°-30°	1226.1	9.2
30°-40°	1850.0	13.9
40°-50°	2585.9	19.4
50°-60°	2856.3	21.4
60°-70°	2488.2	18.6
70°-80°	1256.9	9.4
80°-90°	100.9	0.8
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°	13345.0	100.0
0°-180°	13345.0	100.0

Coefficient of Utilization



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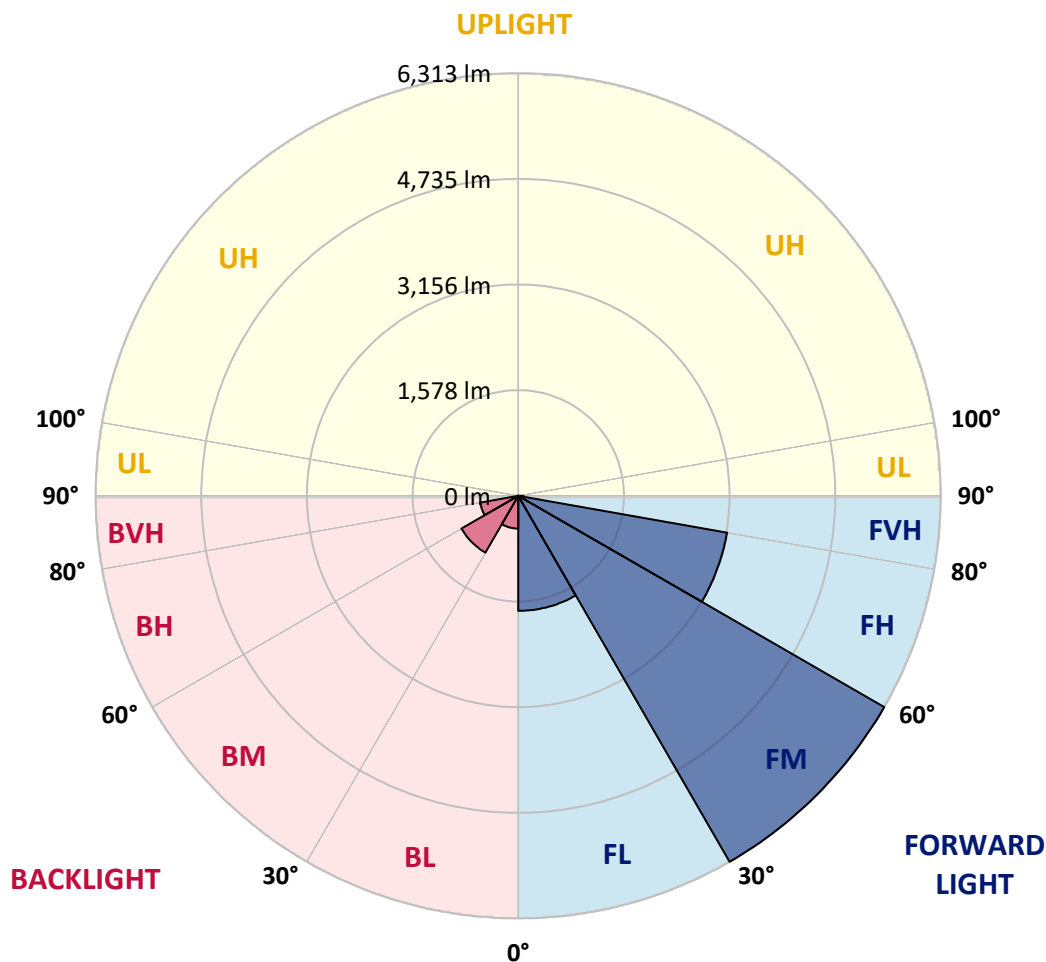
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1717.9	12.9			
FM	(30°-60°)	6312.7	47.3			
FH	(60°-80°)	3167.7	23.7			G2/5000
FVH	(80°-90°)	78.1	0.6			G1/100
BL	(0°-30°)	489.0	3.7	B1/500		
BM	(30°-60°)	979.5	7.3	B1/1000		
BH	(60°-80°)	577.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.8	0.2			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9
2.5°	2875.8	2907.8	2890.4	2902.0	2843.9	2806.1	2762.4	2678.1	2631.6	2625.8	2570.5
5°	3297.5	3332.4	3303.3	3294.6	3192.8	3105.6	3006.7	2858.4	2759.5	2742.1	2620.0
7.5°	3719.1	3751.1	3716.2	3690.0	3553.4	3399.3	3253.9	3035.8	2881.7	2852.6	2660.7
10°	4015.7	4044.8	4018.6	3992.5	3850.0	3692.9	3486.5	3201.5	2992.2	2945.6	2686.8
12.5°	4239.6	4257.1	4245.4	4222.2	4088.4	3919.8	3722.0	3387.6	3117.2	3059.0	2727.5
15°	4422.8	4451.9	4437.3	4419.9	4292.0	4123.3	3934.3	3582.4	3262.6	3189.9	2788.6
17.5°	4544.9	4565.3	4568.2	4568.2	4454.8	4289.0	4105.9	3759.8	3408.0	3314.9	2846.8
20°	4600.2	4623.4	4638.0	4661.3	4568.2	4425.7	4239.6	3911.0	3544.6	3440.0	2902.0
22.5°	4626.4	4646.7	4684.5	4736.9	4661.3	4542.0	4370.5	4050.6	3681.3	3570.8	2966.0
25°	4646.7	4672.9	4728.1	4827.0	4774.7	4672.9	4524.6	4210.5	3844.2	3730.7	3059.0
27.5°	4702.0	4733.9	4786.3	4905.5	4841.5	4792.1	4687.4	4382.1	4015.7	3899.4	3172.4
30°	4893.9	4920.0	4917.1	4992.7	4914.2	4899.7	4827.0	4547.8	4181.5	4065.1	3306.2
32.5°	5242.8	5269.0	5205.0	5175.9	5004.4	5007.3	4978.2	4725.2	4379.2	4260.0	3460.3
35°	5617.9	5647.0	5562.7	5513.2	5225.4	5141.0	5155.6	4946.2	4600.2	4481.0	3652.2
37.5°	5952.3	5987.2	5914.5	5841.8	5551.0	5356.2	5353.3	5193.4	4853.2	4731.0	3864.5
40°	6135.5	6176.2	6219.8	6179.1	5873.8	5658.6	5565.6	5446.4	5103.2	4978.2	4094.2
42.5°	6222.8	6336.2	6414.7	6388.5	6138.4	5920.3	5809.8	5711.0	5408.6	5286.4	4367.6
45°	5978.5	5981.4	6147.2	6289.6	6243.1	6097.7	6077.4	6007.6	5757.5	5641.2	4675.8
47.5°	5673.2	5649.9	5766.2	6019.2	6150.1	6187.9	6307.1	6336.2	6155.9	6039.6	4989.8
50°	4940.4	4954.9	5333.0	5696.4	5952.3	6196.6	6469.9	6673.5	6565.9	6455.4	5321.3
52.5°	4018.6	4053.5	4486.8	5286.4	5690.6	6109.4	6565.9	7010.8	6984.6	6879.9	5652.8
55°	3221.9	3277.1	3736.6	4603.1	5356.2	5914.5	6606.6	7319.0	7417.9	7321.9	5978.5
57.5°	2462.9	2521.1	2907.8	3797.6	4928.8	5597.6	6577.5	7589.4	7822.1	7761.0	6278.0
60°	1855.2	1913.4	2160.5	3079.4	4393.7	5242.8	6432.1	7766.8	8185.5	8121.6	6496.1
62.5°	1328.9	1375.4	1558.6	2396.1	3742.4	4821.2	6074.5	7769.7	8392.0	8339.7	6600.8
65°	956.7	956.7	1105.0	1709.8	3131.7	4315.2	5533.6	7412.1	8348.4	8333.8	6528.1
67.5°	689.2	695.0	814.2	1195.1	2497.8	3701.7	4832.8	6775.2	8011.1	8083.8	6266.4
70°	488.5	503.1	558.3	834.5	1887.2	2922.4	4082.6	5940.7	7403.3	7531.3	5760.4
72.5°	378.0	386.7	424.5	581.6	1378.3	2172.1	3253.9	5010.2	6592.0	6737.4	5071.3
75°	290.8	299.5	328.6	427.5	988.7	1523.7	2311.7	3887.8	5315.5	5574.3	4073.9
77.5°	212.3	223.9	244.3	311.1	575.8	968.3	1401.6	2186.7	2934.0	3056.1	2134.3
80°	98.9	113.4	142.5	200.6	311.1	456.5	497.2	843.3	1410.3	1474.3	1157.3
82.5°	55.2	69.8	81.4	122.1	157.0	162.8	168.7	212.3	532.1	587.4	485.6
85°	26.2	34.9	37.8	52.3	52.3	46.5	55.2	40.7	87.2	104.7	101.8
87.5°	0.0	2.9	5.8	14.5	11.6	8.7	8.7	8.7	8.7	11.6	8.7
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°	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9
2.5°	2544.4	2506.5	2419.3	2343.7	2294.3	2250.7	2192.5	2166.3	2119.8	2128.5	2102.4
5°	2558.9	2489.1	2335.0	2192.5	2087.8	1994.8	1893.0	1834.8	1770.9	1765.1	1744.7
7.5°	2567.6	2460.0	2239.0	2038.4	1878.5	1736.0	1599.3	1523.7	1445.2	1427.7	1410.3
10°	2558.9	2416.4	2140.2	1878.5	1666.2	1488.8	1334.7	1238.7	1157.3	1137.0	1119.5
12.5°	2567.6	2393.1	2047.1	1730.2	1477.2	1276.5	1102.1	1003.2	927.6	907.2	895.6
15°	2588.0	2378.6	1968.6	1596.4	1308.5	1084.6	913.1	828.7	767.7	747.3	741.5
17.5°	2605.4	2364.1	1884.3	1465.5	1139.9	916.0	767.7	697.9	645.5	625.2	619.4
20°	2628.7	2343.7	1799.9	1340.5	991.6	782.2	651.4	590.3	549.6	535.0	532.1
22.5°	2649.0	2329.2	1721.4	1215.5	854.9	674.6	564.1	514.7	485.6	471.1	471.1
25°	2701.4	2335.0	1654.6	1099.2	753.1	590.3	497.2	459.4	436.2	427.5	427.5
27.5°	2762.4	2358.2	1602.2	1000.3	665.9	526.3	450.7	418.7	407.1	395.5	398.4
30°	2849.7	2404.8	1567.3	918.9	601.9	476.9	412.9	389.6	378.0	375.1	375.1
32.5°	2960.2	2480.4	1564.4	866.5	555.4	439.1	386.7	366.4	360.6	357.7	357.7
35°	3091.0	2547.3	1547.0	843.3	526.3	412.9	366.4	351.8	348.9	348.9	348.9
37.5°	3248.0	2657.8	1535.3	811.3	511.8	398.4	351.8	340.2	340.2	340.2	340.2
40°	3410.9	2747.9	1517.9	782.2	506.0	389.6	343.1	328.6	328.6	328.6	328.6
42.5°	3605.7	2878.8	1512.1	767.7	497.2	383.8	331.5	314.0	317.0	317.0	319.9
45°	3841.2	3027.1	1509.2	753.1	494.3	378.0	319.9	299.5	302.4	299.5	299.5
47.5°	4079.7	3198.6	1517.9	744.4	491.4	372.2	311.1	285.0	285.0	282.1	282.1
50°	4329.8	3355.6	1523.7	735.7	485.6	360.6	296.6	273.3	267.5	261.7	264.6
52.5°	4565.3	3501.0	1526.6	721.1	468.2	343.1	285.0	258.8	250.1	241.3	244.3
55°	4800.8	3640.6	1532.4	703.7	444.9	325.7	270.4	244.3	232.6	221.0	221.0
57.5°	5013.1	3762.7	1517.9	660.1	418.7	308.2	255.9	226.8	209.4	197.7	197.7
60°	5158.5	3850.0	1474.3	596.1	383.8	287.9	241.3	209.4	189.0	180.3	180.3
62.5°	5228.3	3864.5	1395.8	491.4	340.2	267.5	223.9	191.9	174.5	168.7	168.7
65°	5161.4	3800.5	1273.6	369.3	293.7	244.3	206.5	177.4	159.9	145.4	145.4
67.5°	4928.8	3620.2	1105.0	279.2	250.1	221.0	189.0	162.8	142.5	130.9	130.9
70°	4460.6	3245.1	854.9	223.9	212.3	191.9	171.6	145.4	127.9	113.4	113.4
72.5°	3847.1	2750.8	601.9	180.3	180.3	162.8	145.4	127.9	110.5	98.9	98.9
75°	2951.4	2035.5	404.2	145.4	148.3	136.7	119.2	104.7	93.1	84.3	84.3
77.5°	1610.9	1006.1	247.2	107.6	110.5	104.7	93.1	84.3	78.5	69.8	69.8
80°	782.2	442.0	142.5	75.6	78.5	75.6	69.8	61.1	61.1	55.2	55.2
82.5°	328.6	165.7	75.6	52.3	52.3	46.5	43.6	43.6	43.6	40.7	40.7
85°	81.4	32.0	32.0	29.1	29.1	29.1	26.2	26.2	26.2	20.4	23.3
87.5°	11.6	11.6	11.6	11.6	11.6	11.6	8.7	2.9	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)