

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: P842154

Luminaire Tested: **ARCH4-280-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35060 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 279.7
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

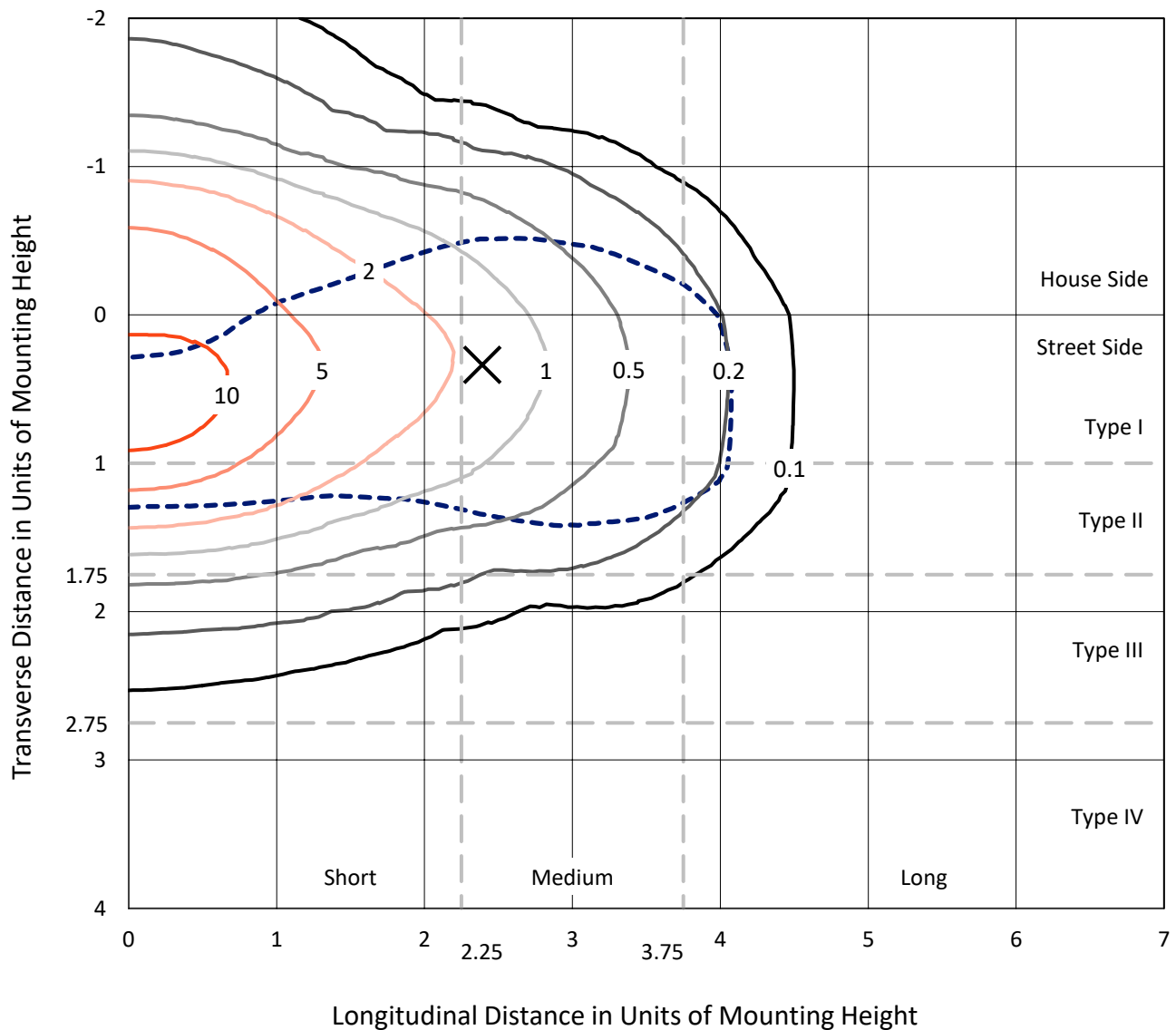


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Iso-Footcandle Lines of Horizontal Illumination

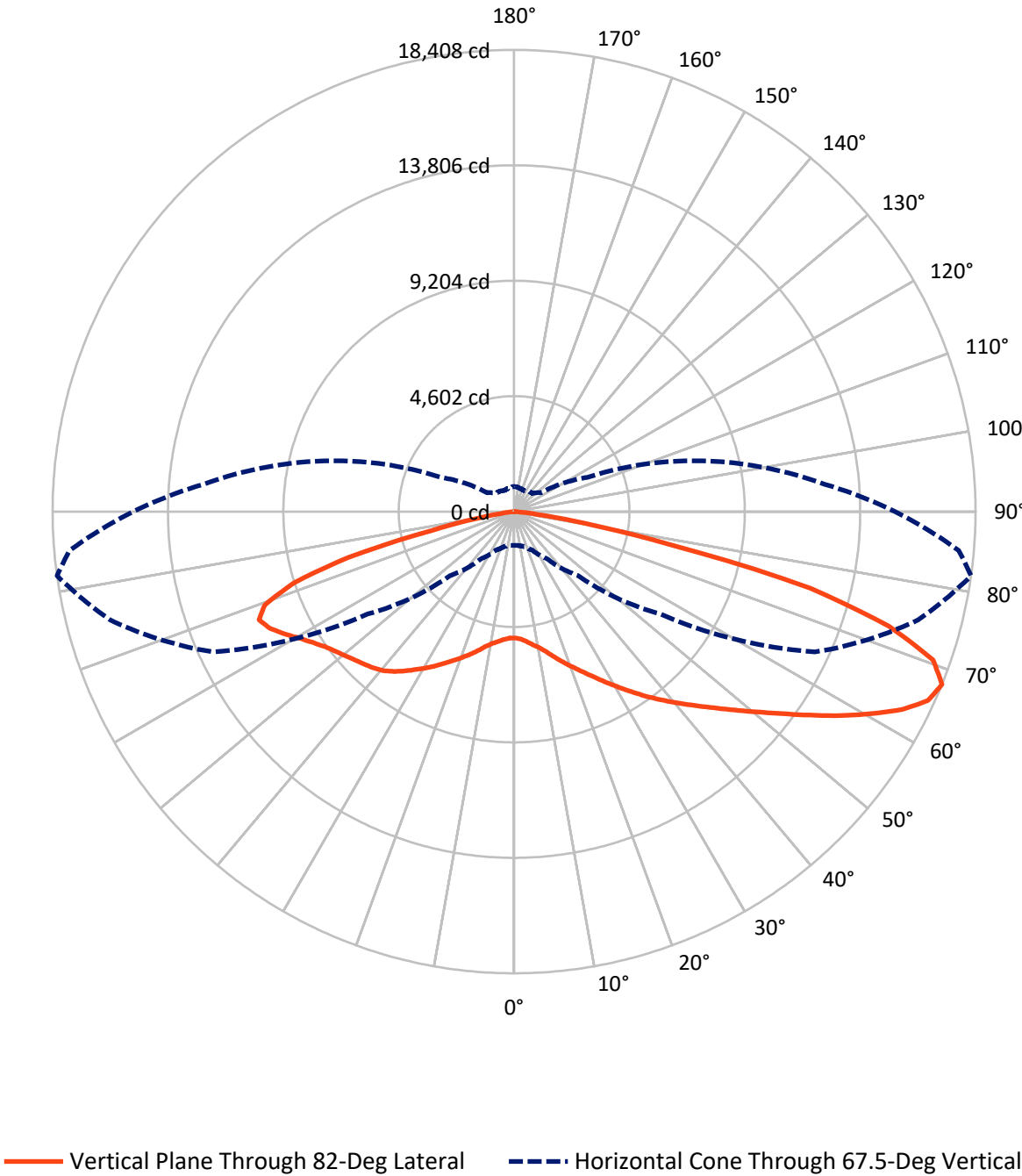
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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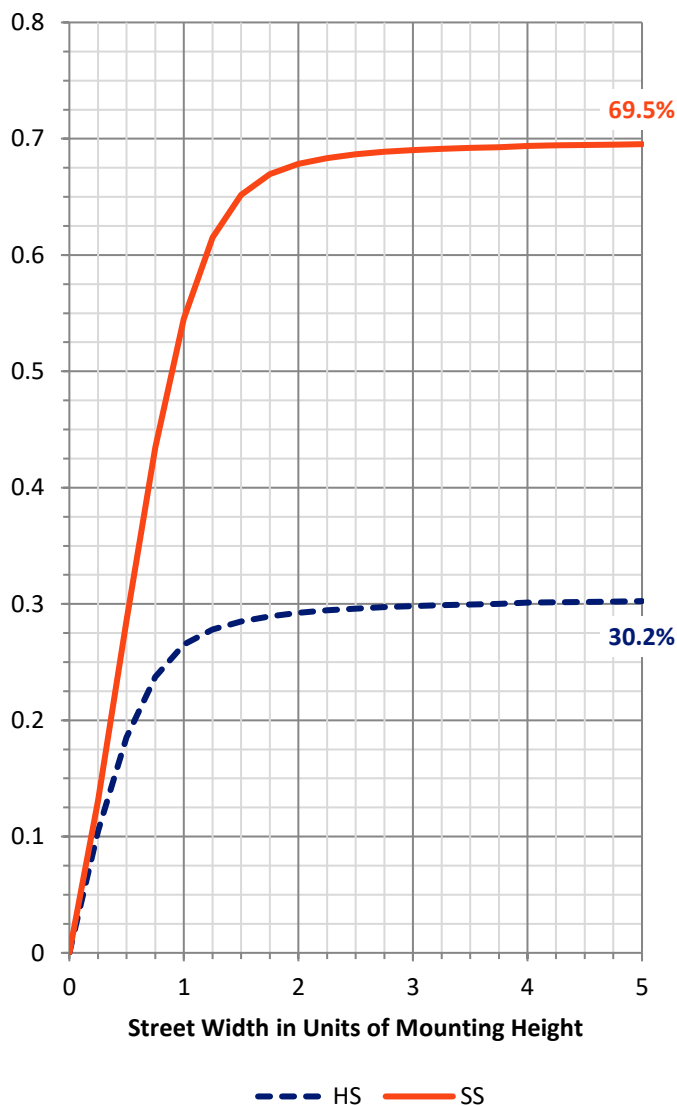
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10677.2	0.0	10677.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	24382.8	0.0	24382.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	35060.0	0.0	35060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.9	1.5
10°-20°	1876.1	5.4
20°-30°	3770.5	10.8
30°-40°	5923.0	16.9
40°-50°	7215.4	20.6
50°-60°	6817.6	19.4
60°-70°	5629.8	16.1
70°-80°	3065.7	8.7
80°-90°	241.0	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°	35060.0	100.0
0°-180°	35060.0	100.0

Coefficient of Utilization



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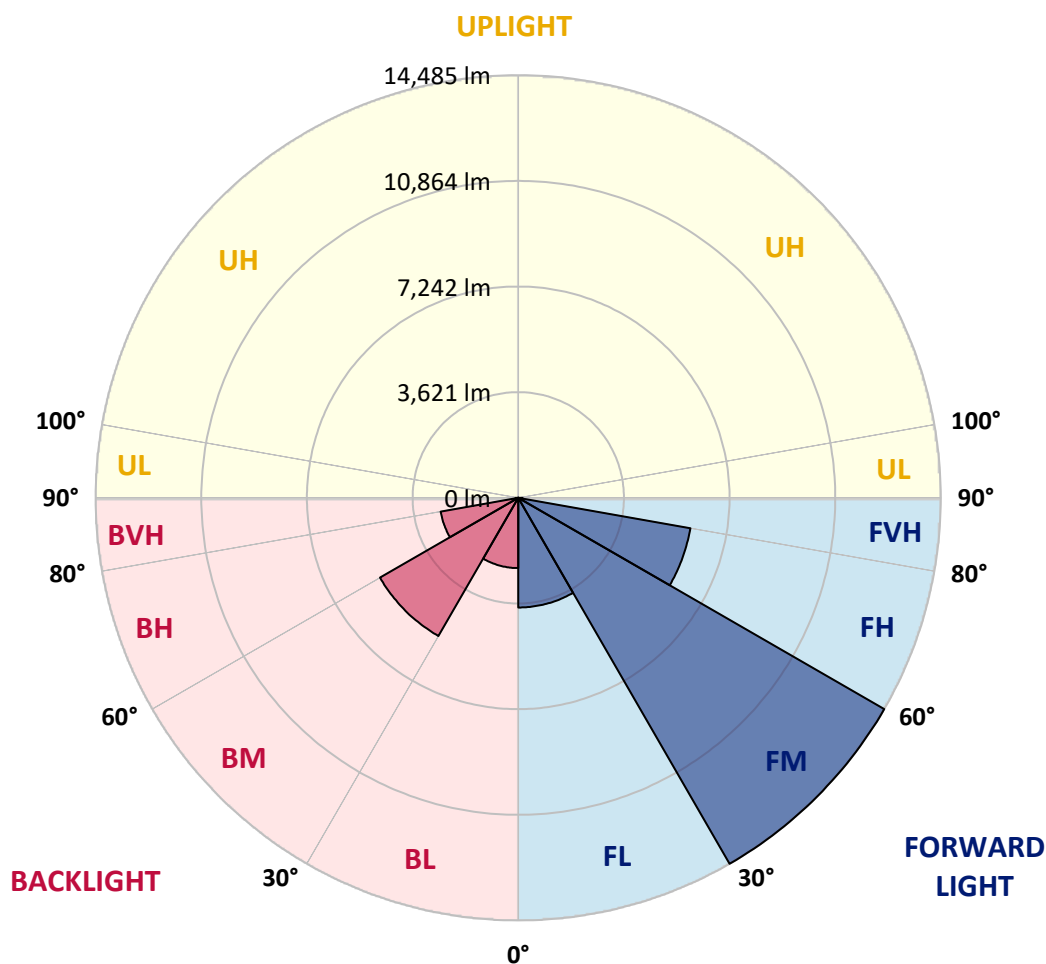
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3759.7	10.7			
FM	(30°-60°)	14484.8	41.3			
FH	(60°-80°)	5993.0	17.1			G3/7500
FVH	(80°-90°)	145.3	0.4			G2/225
BL	(0°-30°)	2407.8	6.9	B3/2500		
BM	(30°-60°)	5471.2	15.6	B4/8500		
BH	(60°-80°)	2702.4	7.7	B4/5000		G4/5000
BVH	(80°-90°)	95.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9
2.5°	5268.9	5268.9	5309.7	5309.7	5274.0	5218.0	5202.8	5141.7	5085.7	5085.7	5090.8
5°	5772.9	5767.8	5798.4	5757.7	5671.1	5559.1	5482.8	5350.4	5238.4	5202.8	5197.7
7.5°	6388.9	6383.8	6399.1	6332.9	6170.0	5986.7	5834.0	5620.2	5436.9	5360.6	5340.2
10°	7076.2	7071.1	7055.8	6943.8	6724.9	6439.8	6210.7	5915.5	5640.6	5518.4	5492.9
12.5°	7865.2	7855.0	7819.4	7656.5	7356.2	6989.6	6658.7	6276.9	5910.4	5742.4	5686.4
15°	8745.9	8730.7	8664.5	8465.9	8063.8	7600.5	7172.9	6684.2	6236.2	6017.3	5940.9
17.5°	9672.5	9672.5	9570.6	9275.4	8827.4	8252.1	7722.7	7101.6	6577.3	6307.5	6215.8
20°	10614.2	10609.2	10481.9	10125.5	9596.1	8934.3	8262.3	7580.1	6928.5	6602.7	6490.7
22.5°	11606.9	11596.8	11438.9	11031.7	10400.4	9652.1	8868.1	8053.6	7315.4	6923.4	6780.9
25°	12747.3	12732.0	12538.6	12039.7	11291.3	10446.2	9550.3	8608.5	7758.3	7279.8	7111.8
27.5°	13958.9	13938.5	13709.4	13129.1	12309.5	11291.3	10303.7	9249.9	8247.0	7676.9	7488.5
30°	15038.1	15022.8	14773.4	14177.8	13236.0	12131.3	11021.5	9891.4	8761.2	8099.4	7865.2
32.5°	15852.6	15852.6	15628.6	15043.2	14065.8	12935.6	11744.4	10497.2	9295.7	8552.5	8277.6
35°	16346.4	16361.7	16168.3	15699.9	14778.5	13694.2	12492.7	11209.9	9865.9	9036.1	8740.8
37.5°	16417.7	16468.6	16356.6	16041.0	15272.3	14325.4	13225.8	11897.1	10456.4	9524.8	9193.9
40°	16086.8	16122.5	16127.5	16005.4	15475.9	14778.5	13872.3	12625.1	11082.6	10039.0	9657.2
42.5°	15425.0	15450.5	15496.3	15531.9	15328.3	14977.0	14366.1	13302.2	11749.5	10563.3	10115.3
45°	14569.8	14564.7	14641.0	14793.8	14783.6	14865.0	14641.0	13918.2	12441.8	11159.0	10624.4
47.5°	13292.0	13266.5	13536.3	13882.5	14055.6	14437.4	14646.1	14401.8	13195.3	11815.7	11204.8
50°	11291.3	11265.9	11856.4	12670.9	13180.0	13760.3	14366.1	14691.9	13984.3	12553.8	11836.0
52.5°	8857.9	8832.5	9580.8	11006.2	12116.0	12961.1	13801.1	14758.1	14732.7	13378.5	12548.7
55°	6587.4	6567.1	7295.1	8837.6	10634.6	12034.6	13108.7	14585.0	15435.2	14325.4	13414.2
57.5°	4642.8	4632.6	5263.9	6541.6	8730.7	10904.4	12441.8	14249.0	16081.7	15353.7	14391.6
60°	3258.1	3242.8	3701.0	4688.6	6602.7	9199.0	11780.0	13801.1	16565.3	16366.8	15430.1
62.5°	2194.1	2183.9	2509.7	3334.5	4688.6	7081.3	10777.1	13500.7	16840.2	17385.0	16478.8
65°	1664.7	1659.6	1807.2	2260.3	3319.2	5085.7	9183.7	13465.1	16875.9	18148.6	17369.7
67.5°	1344.0	1349.1	1430.5	1690.1	2295.9	3614.4	7122.0	13241.1	16687.5	18408.2	17802.4
70°	1099.6	1099.6	1135.2	1308.3	1695.2	2438.5	4973.7	12222.9	16163.2	17731.1	17288.2
72.5°	840.0	845.1	957.1	1058.9	1277.8	1710.5	3186.8	10115.3	14926.1	15633.7	15297.7
75°	666.9	661.8	728.0	870.5	992.7	1221.8	1954.9	7254.3	12701.5	12217.8	12004.0
77.5°	478.5	473.4	524.3	646.5	753.4	865.4	1165.8	3660.3	6908.2	6348.2	6190.4
80°	325.8	315.6	361.4	448.0	498.9	509.1	570.2	1405.1	3013.7	2840.6	2805.0
82.5°	168.0	168.0	193.4	254.5	259.6	264.7	254.5	453.1	997.8	931.6	890.9
85°	66.2	66.2	71.3	86.5	86.5	91.6	91.6	117.1	106.9	101.8	96.7
87.5°	5.1	5.1	10.2	10.2	15.3	15.3	15.3	20.4	25.5	25.5	25.5
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°	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9	5039.9
2.5°	5080.6	5060.2	4994.0	4978.8	4968.6	4953.3	4958.4	4922.8	4907.5	4912.6	4892.2
5°	5172.2	5136.6	5055.1	5019.5	5009.3	4994.0	5009.3	4983.9	4958.4	4968.6	4958.4
7.5°	5299.5	5248.6	5146.8	5111.1	5106.0	5090.8	5111.1	5090.8	5070.4	5080.6	5060.2
10°	5431.8	5365.7	5253.7	5218.0	5218.0	5212.9	5233.3	5202.8	5182.4	5187.5	5177.3
12.5°	5625.3	5538.8	5416.6	5386.0	5370.8	5386.0	5391.1	5350.4	5314.8	5319.8	5304.6
15°	5859.5	5762.7	5630.4	5584.6	5574.4	5569.3	5548.9	5498.0	5452.2	5447.1	5431.8
17.5°	6114.0	5991.8	5834.0	5788.2	5742.4	5727.1	5676.2	5610.0	5538.8	5538.8	5518.4
20°	6358.4	6220.9	6032.6	5966.4	5900.2	5839.1	5752.6	5645.7	5554.0	5538.8	5518.4
22.5°	6623.1	6460.2	6241.3	6144.6	6027.5	5905.3	5757.7	5615.1	5498.0	5472.6	5457.3
25°	6918.3	6714.7	6455.1	6312.5	6124.2	5935.8	5716.9	5533.7	5396.2	5355.5	5345.3
27.5°	7244.2	6999.8	6684.2	6475.5	6200.6	5905.3	5625.3	5406.4	5238.4	5187.5	5172.2
30°	7575.1	7284.9	6892.9	6587.4	6200.6	5808.6	5457.3	5202.8	5009.3	4938.0	4927.9
32.5°	7906.0	7580.1	7081.3	6648.5	6139.5	5645.7	5238.4	4938.0	4719.1	4632.6	4653.0
35°	8303.0	7906.0	7254.3	6674.0	6037.6	5447.1	4988.9	4637.7	4413.7	4337.3	4352.6
37.5°	8715.4	8231.8	7391.8	6653.6	5895.1	5223.1	4709.0	4367.9	4087.9	3955.5	3970.8
40°	9071.7	8527.0	7488.5	6582.4	5711.8	4968.6	4434.1	3986.1	3599.2	3471.9	3456.6
42.5°	9407.7	8745.9	7539.4	6475.5	5503.1	4673.3	4042.1	3466.8	3079.9	2922.1	2927.2
45°	9759.0	8959.7	7519.1	6332.9	5243.5	4327.1	3538.1	2957.7	2616.7	2474.1	2479.2
47.5°	10161.2	9188.8	7498.7	6180.2	4927.9	3879.2	3054.5	2509.7	2214.5	2112.7	2102.5
50°	10588.8	9443.4	7473.2	5991.8	4576.6	3380.3	2575.9	2092.3	1842.9	1776.7	1761.4
52.5°	11072.4	9718.3	7458.0	5767.8	4154.1	2850.8	2148.3	1725.8	1557.8	1512.0	1506.9
55°	11652.8	10039.0	7478.3	5498.0	3645.0	2351.9	1786.9	1486.5	1374.5	1349.1	1344.0
57.5°	12360.4	10451.3	7539.4	5182.4	3110.5	1919.2	1522.1	1338.9	1267.6	1247.2	1247.2
60°	13129.1	10919.7	7651.4	4826.0	2575.9	1583.2	1349.1	1221.8	1191.2	1216.7	1216.7
62.5°	13958.9	11469.5	7850.0	4393.3	2077.0	1338.9	1211.6	1125.1	1104.7	1155.6	1160.7
65°	14727.6	12004.0	7977.2	3874.1	1649.4	1160.7	1104.7	1028.3	1038.5	1089.4	1084.3
67.5°	15201.0	12446.9	7799.1	3222.5	1308.3	1028.3	992.7	926.5	952.0	992.7	997.8
70°	14910.8	12197.5	6918.3	2433.4	1023.2	896.0	870.5	829.8	850.2	901.1	921.4
72.5°	13490.5	10924.8	5380.9	1644.3	824.7	753.4	763.6	743.3	768.7	814.5	860.3
75°	10950.2	8257.2	3609.4	1053.8	651.6	641.4	656.7	641.4	651.6	697.4	722.9
77.5°	5716.9	4026.8	1797.0	656.7	483.6	498.9	524.3	529.4	560.0	570.2	580.3
80°	2667.6	1812.3	748.3	366.5	320.7	351.3	402.2	407.3	417.4	432.7	437.8
82.5°	870.5	544.7	346.2	198.5	183.3	198.5	259.6	310.5	315.6	346.2	346.2
85°	91.6	56.0	76.4	81.5	71.3	86.5	117.1	112.0	50.9	30.5	30.5
87.5°	25.5	20.4	25.5	25.5	20.4	20.4	15.3	5.1	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)