

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: P287013

Luminaire Tested: **USSL-C02-D-U-T2-BZ-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C02-D-U-T2-BZ-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18806 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 153
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: 28.75 FT

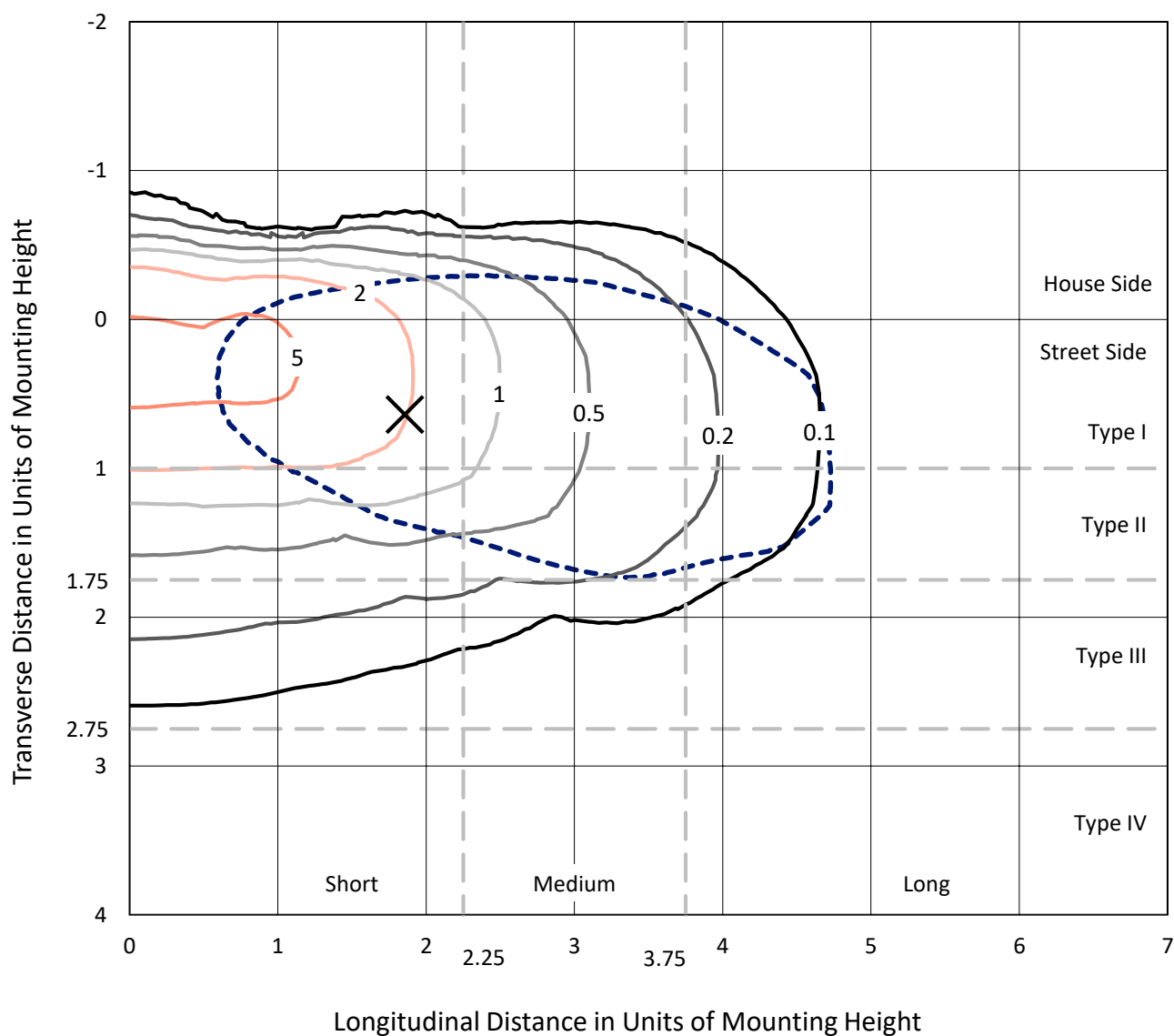


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

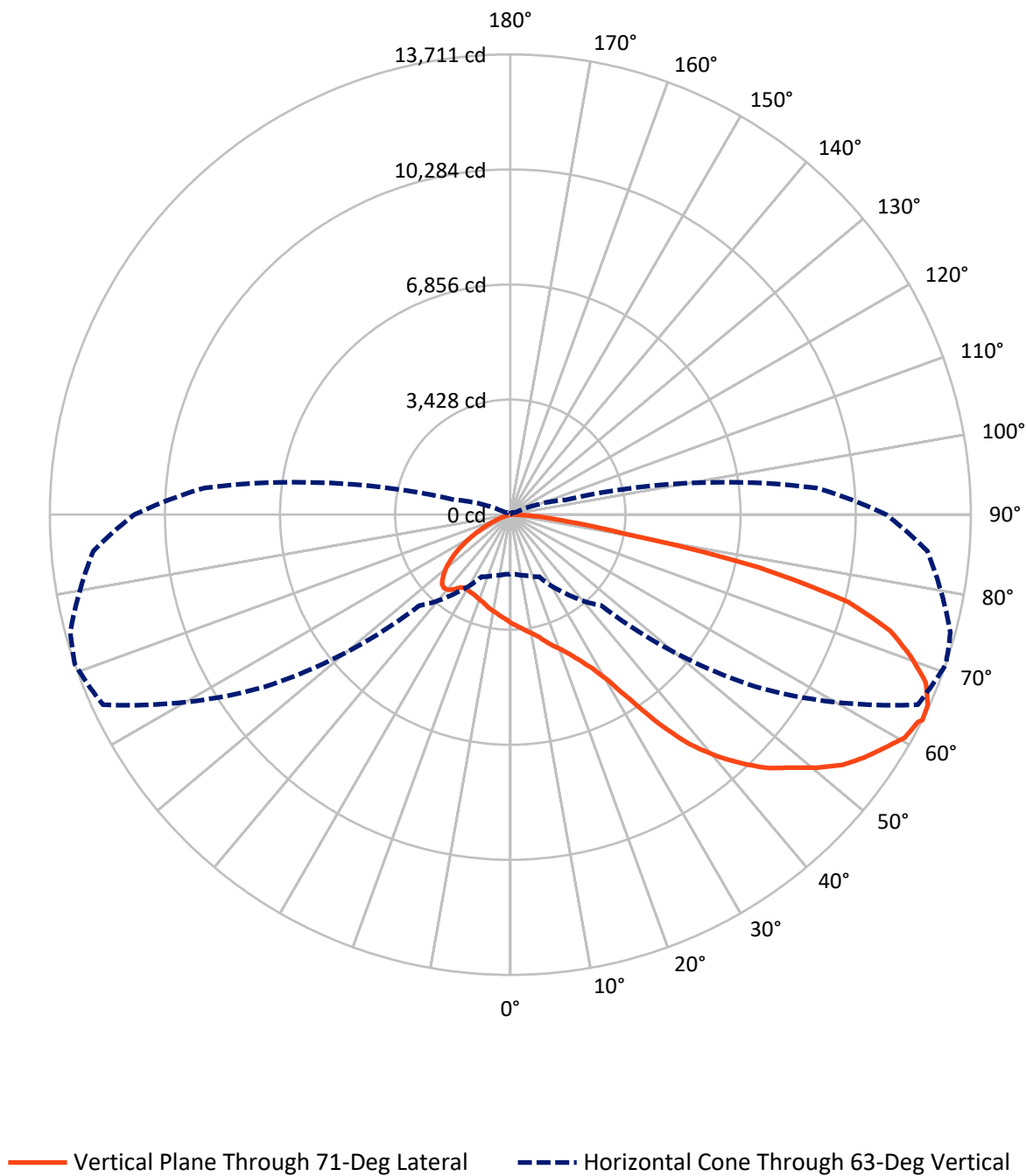


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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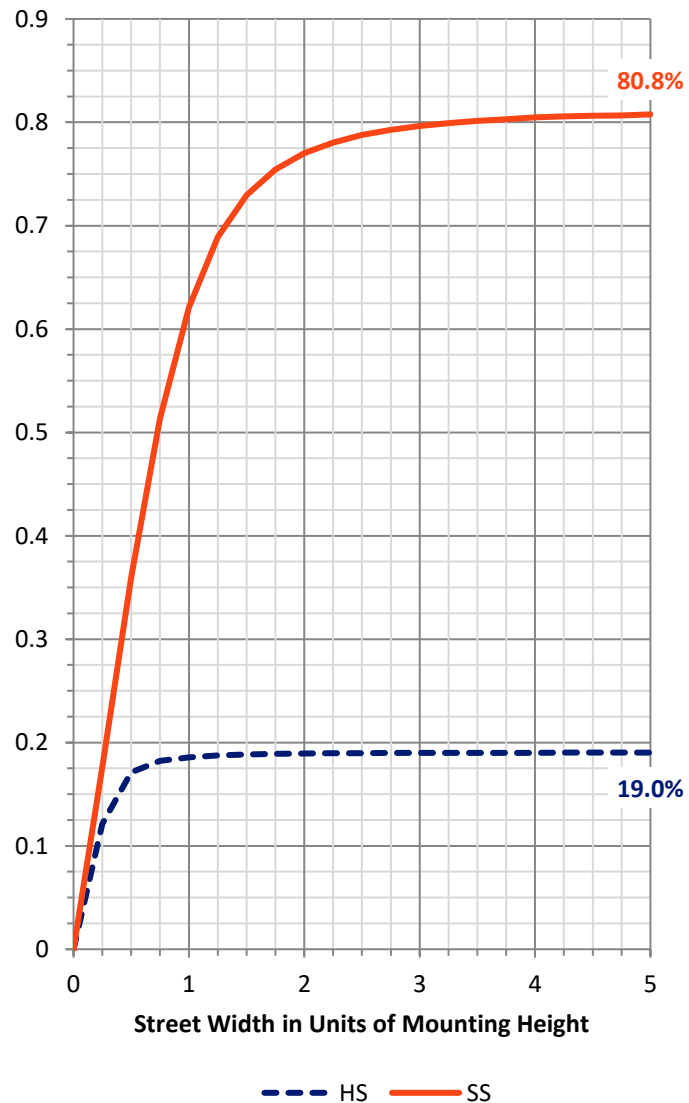
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3619.5	0.0	3619.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	15186.6	0.0	15186.6
	% Fixture	80.8	0.0	80.8
Total	Lumens	18806.0	0.0	18806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	1.6
10°-20°	924.5	4.9
20°-30°	1554.8	8.3
30°-40°	2376.2	12.6
40°-50°	3310.2	17.6
50°-60°	3833.8	20.4
60°-70°	3796.7	20.2
70°-80°	2353.6	12.5
80°-90°	348.5	1.9
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°	18806.0	100.0
0°-180°	18806.0	100.0

Coefficient of Utilization



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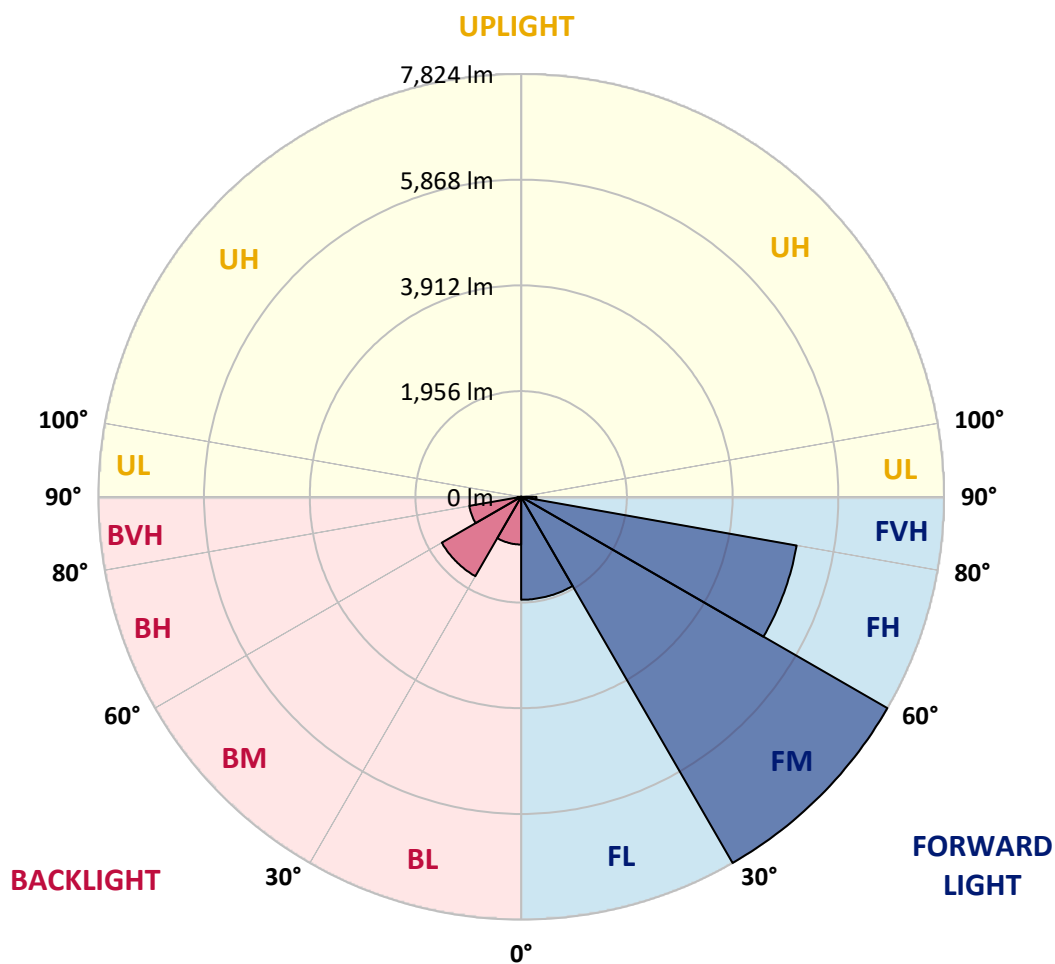
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1904.4	10.1			
FM	(30°-60°)	7823.5	41.6			
FH	(60°-80°)	5176.4	27.5			G3/7500
FVH	(80°-90°)	282.3	1.5			G3/500
BL	(0°-30°)	882.7	4.7	B2/1000		
BM	(30°-60°)	1696.6	9.0	B2/2500		
BH	(60°-80°)	973.9	5.2	B2/1000		G2/1000
BVH	(80°-90°)	66.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3
2.5°	3559.6	3525.6	3524.7	3481.7	3449.8	3431.8	3382.9	3340.0	3303.1	3299.1	3233.3
5°	3753.2	3745.2	3734.2	3667.4	3637.4	3597.5	3543.6	3460.8	3393.9	3377.0	3272.2
7.5°	3971.7	3965.7	3943.8	3883.9	3808.1	3761.2	3656.4	3573.6	3502.7	3466.8	3325.1
10°	4097.5	4096.5	4094.5	4044.6	3985.7	3916.8	3805.1	3683.3	3601.5	3563.6	3359.0
12.5°	4297.0	4270.1	4261.1	4200.2	4125.4	4075.5	3972.7	3842.0	3731.2	3664.4	3435.8
15°	4457.7	4458.7	4441.7	4386.9	4331.0	4251.1	4164.3	4033.6	3911.8	3861.0	3567.6
17.5°	4657.3	4639.3	4619.4	4561.5	4502.6	4418.8	4364.9	4206.2	4106.4	3994.7	3683.3
20°	4784.0	4753.1	4731.1	4694.2	4670.3	4603.4	4554.5	4413.8	4277.1	4181.3	3813.1
22.5°	4871.8	4903.8	4894.8	4834.9	4843.9	4823.9	4762.1	4667.3	4513.6	4355.9	3962.7
25°	4925.7	4918.7	4970.6	5009.6	5077.4	5073.4	5027.5	4944.7	4808.0	4638.3	4186.3
27.5°	4941.7	4941.7	5025.5	5135.3	5295.0	5329.9	5335.9	5330.9	5179.2	5025.5	4479.7
30°	4965.6	4992.6	5073.4	5210.1	5441.7	5580.4	5646.2	5757.0	5719.1	5585.4	4958.7
32.5°	4870.8	4873.8	4991.6	5255.0	5592.3	5880.7	6010.5	6402.7	6569.3	6631.2	5929.6
35°	4565.5	4596.4	4811.0	5174.2	5662.2	6139.2	6491.5	7301.8	7669.0	7677.0	6858.7
37.5°	4353.9	4383.9	4614.4	5057.5	5717.1	6399.7	7041.3	8311.7	8682.9	8591.1	7660.0
40°	4122.4	4172.3	4416.8	4899.8	5709.1	6655.1	7629.1	9205.8	9453.3	9332.5	8315.7
42.5°	3896.9	3904.9	4145.4	4681.2	5668.2	6862.7	8203.9	9866.4	10139.9	9984.2	8958.3
45°	3623.4	3659.4	3896.9	4390.8	5532.5	6990.4	8709.8	10590.9	10772.5	10598.9	9495.2
47.5°	3308.1	3354.0	3659.4	4122.4	5231.1	7009.4	9164.9	11242.6	11260.5	11122.8	10060.0
50°	2554.7	2583.6	3211.3	3858.0	4870.8	6933.5	9599.0	11730.5	11847.3	11667.7	10542.0
52.5°	2313.2	2337.1	2512.8	3513.7	4388.9	6680.1	9902.4	12291.4	12386.2	12228.5	11013.0
55°	2217.4	2228.4	2290.2	2848.1	3984.7	6230.0	10094.0	12710.5	12778.4	12582.8	11403.2
57.5°	2049.7	2059.7	2191.4	2428.9	3645.4	5485.6	10070.0	13123.6	13118.7	12900.1	11807.4
60°	1923.0	1943.9	2055.7	2233.3	3236.3	4589.4	9741.7	13440.0	13488.9	13288.3	12101.8
62.5°	1803.2	1811.2	1906.0	2077.7	2903.9	3935.8	9124.0	13411.0	13617.6	13468.9	12472.0
63°	1769.3	1784.3	1878.1	2044.7	2856.0	3833.0	8957.3	13388.1	13711.4	13565.7	12463.0
65°	1664.5	1666.5	1758.3	1916.0	2627.5	3512.7	8403.5	13084.7	13662.5	13574.7	12617.7
67.5°	1464.9	1479.9	1561.7	1715.4	2246.3	3105.5	6972.5	12883.1	13345.2	13391.1	12365.2
70°	1243.4	1252.4	1353.2	1503.9	1888.1	2634.5	5215.1	12180.6	12642.6	12699.5	11701.6
72.5°	975.0	980.0	1089.7	1265.4	1544.8	2175.5	3598.5	10956.2	11823.4	11823.4	10567.0
75°	306.4	362.2	763.4	1019.9	1248.4	1683.5	2364.1	8500.3	10392.3	10650.8	9047.1
77.5°	99.8	107.8	241.5	537.9	786.4	1292.3	1569.7	4518.6	7549.3	8259.8	7136.1
80°	71.9	83.8	149.7	403.2	495.0	549.9	973.0	2462.9	3430.8	4496.6	4766.1
82.5°	36.9	47.9	105.8	256.5	281.4	277.4	432.1	1164.6	1713.4	2069.7	2472.8
85°	17.0	21.0	45.9	89.8	77.8	72.8	152.7	609.7	966.0	1141.6	1233.4
87.5°	4.0	6.0	17.0	31.9	20.0	16.0	18.0	193.6	352.3	439.1	454.1
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°	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3	3232.3
2.5°	3205.3	3221.3	3145.4	3108.5	3045.7	3025.7	2994.8	2957.8	2945.9	2975.8	2955.8
5°	3233.3	3211.3	3101.5	3001.7	2917.9	2852.1	2802.2	2739.3	2701.4	2710.3	2716.3
7.5°	3244.2	3195.3	3039.7	2916.9	2775.2	2690.4	2599.6	2510.8	2472.8	2478.8	2482.8
10°	3255.2	3181.4	2997.8	2817.1	2648.5	2517.8	2414.0	2296.2	2239.3	2241.3	2260.3
12.5°	3320.1	3176.4	2962.8	2744.3	2525.7	2363.1	2236.3	2105.6	2024.8	2030.8	2045.7
15°	3411.9	3219.3	2917.9	2636.5	2407.0	2222.4	2064.7	1920.0	1858.1	1867.1	1881.1
17.5°	3490.7	3267.2	2883.0	2522.7	2263.3	2064.7	1922.0	1798.3	1685.5	1702.5	1692.5
20°	3570.6	3335.0	2872.0	2426.9	2139.5	1911.0	1749.4	1649.6	1509.9	1471.9	1460.0
22.5°	3698.3	3410.9	2862.0	2339.1	1992.8	1776.3	1574.7	1428.0	1227.4	1158.6	1131.6
25°	3865.9	3519.7	2847.1	2260.3	1871.1	1615.6	1342.2	1078.8	930.1	842.2	801.3
27.5°	4092.5	3675.3	2869.0	2190.4	1748.4	1425.0	1018.9	783.4	650.6	574.8	531.9
30°	4471.7	3878.9	2874.0	2127.6	1598.7	1136.6	725.5	544.9	432.1	380.2	354.3
32.5°	5304.9	4496.6	2918.9	2055.7	1438.0	836.3	504.9	365.2	275.4	242.5	257.5
35°	6181.1	5255.0	3080.6	1953.9	1186.5	565.8	333.3	236.5	176.6	181.6	186.6
37.5°	6845.7	5843.8	3419.9	1829.2	892.1	387.2	200.6	161.7	155.7	169.6	195.6
40°	7499.4	6429.6	3722.2	1678.5	604.7	232.5	135.7	148.7	139.7	145.7	147.7
42.5°	8072.2	6896.6	3938.8	1456.0	374.2	136.7	118.8	137.7	127.7	124.7	109.8
45°	8626.0	7300.8	4072.5	1148.6	214.6	108.8	108.8	131.7	123.7	116.8	99.8
47.5°	9116.0	7752.8	4039.6	793.3	130.7	97.8	101.8	118.8	115.8	106.8	97.8
50°	9567.1	8080.2	3953.8	450.1	114.8	92.8	98.8	98.8	103.8	80.8	73.8
52.5°	9960.2	8370.5	3677.3	240.5	106.8	88.8	88.8	78.8	83.8	61.9	58.9
55°	10364.4	8674.9	3288.1	188.6	101.8	88.8	78.8	68.9	62.9	44.9	47.9
57.5°	10696.7	8899.4	2784.2	169.6	104.8	84.8	71.9	59.9	49.9	34.9	33.9
60°	11004.1	9085.1	2295.2	150.7	112.8	85.8	59.9	49.9	34.9	27.9	24.9
62.5°	11189.7	9127.0	1780.3	136.7	112.8	78.8	53.9	41.9	26.9	19.0	18.0
63°	11195.7	9139.9	1699.5	135.7	114.8	78.8	53.9	40.9	24.9	18.0	17.0
65°	11283.5	8869.5	1341.2	132.7	116.8	74.8	50.9	32.9	21.0	14.0	13.0
67.5°	10948.2	8348.6	882.2	130.7	116.8	72.8	44.9	27.9	18.0	11.0	9.0
70°	10062.0	7457.5	539.9	125.7	118.8	71.9	55.9	24.0	16.0	8.0	7.0
72.5°	8840.6	6587.3	310.4	111.8	116.8	58.9	31.9	21.0	14.0	6.0	5.0
75°	7483.4	5295.0	195.6	86.8	90.8	48.9	26.9	19.0	12.0	3.0	3.0
77.5°	5686.1	3810.1	167.7	66.9	53.9	42.9	23.0	15.0	8.0	1.0	1.0
80°	4015.6	2692.4	120.7	41.9	29.9	26.9	17.0	10.0	3.0	0.0	0.0
82.5°	2260.3	1470.9	65.9	15.0	9.0	10.0	8.0	4.0	0.0	0.0	0.0
85°	1065.8	574.8	32.9	10.0	5.0	4.0	1.0	0.0	0.0	0.0	0.0
87.5°	396.2	138.7	8.0	4.0	3.0	1.0	0.0	0.0	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)