

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: P559933

Luminaire Tested: **SDL-PA1-100-827-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-827-U-T4W
Description: Springdale
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7545.3 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 93.8
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

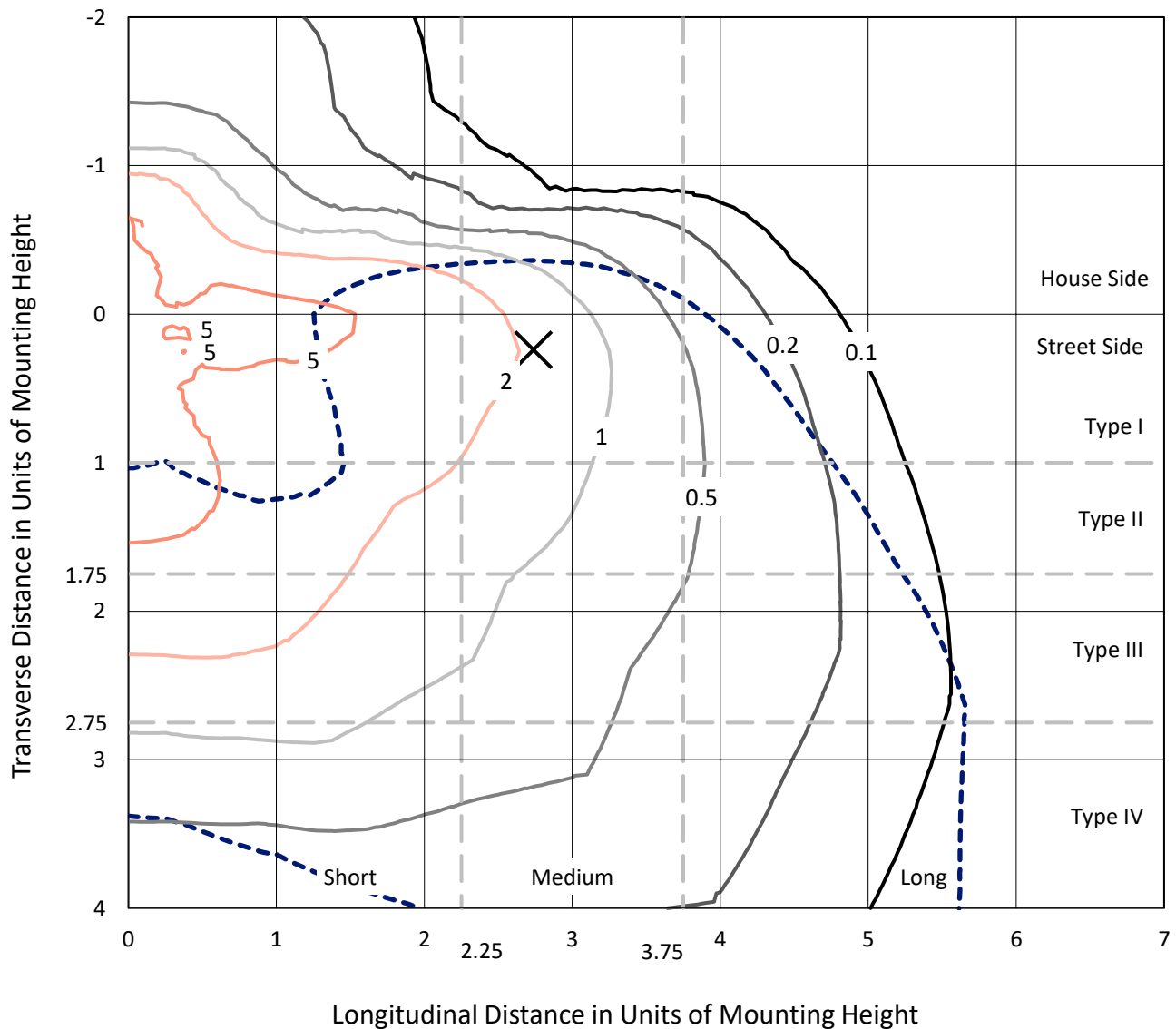


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

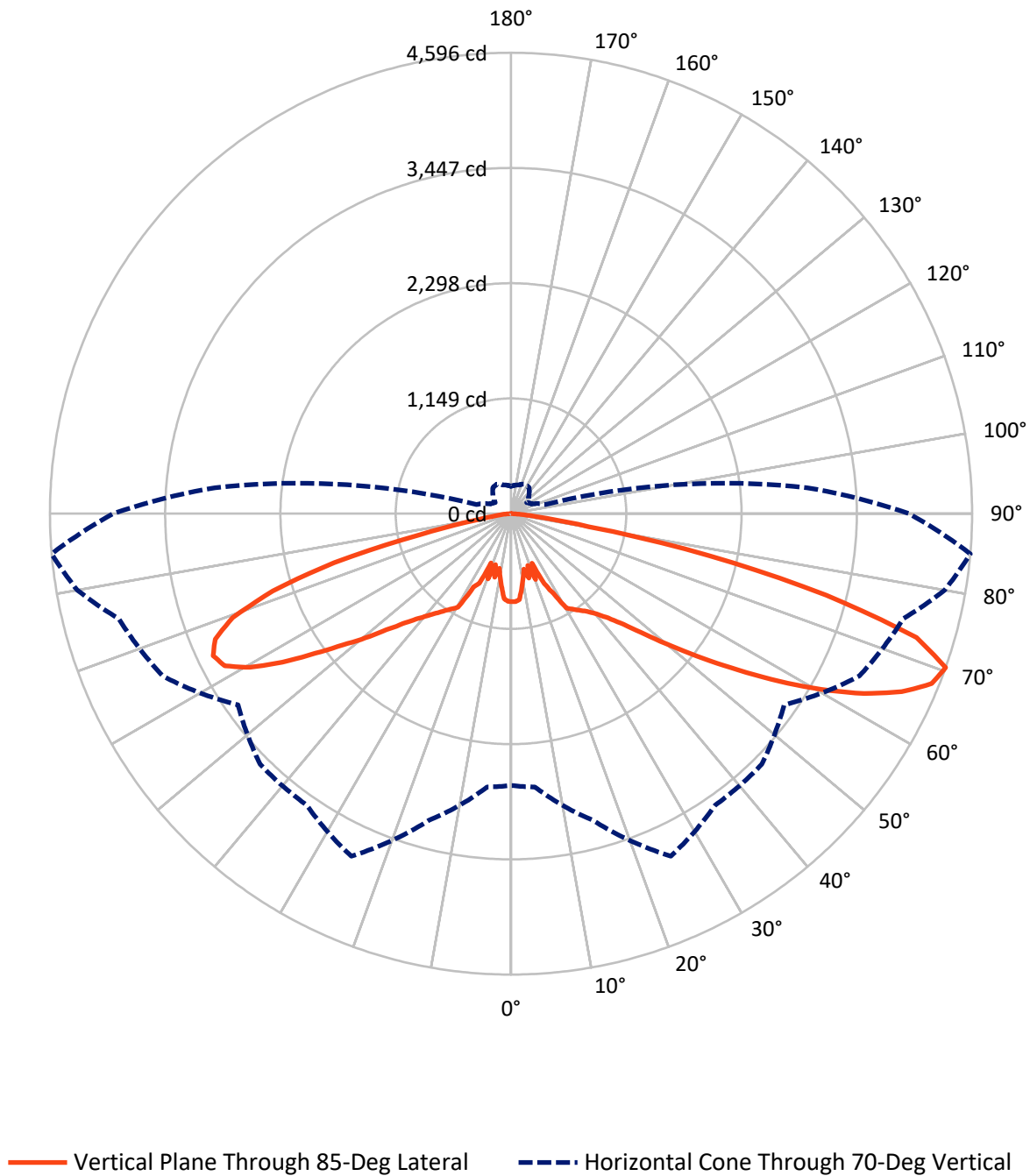


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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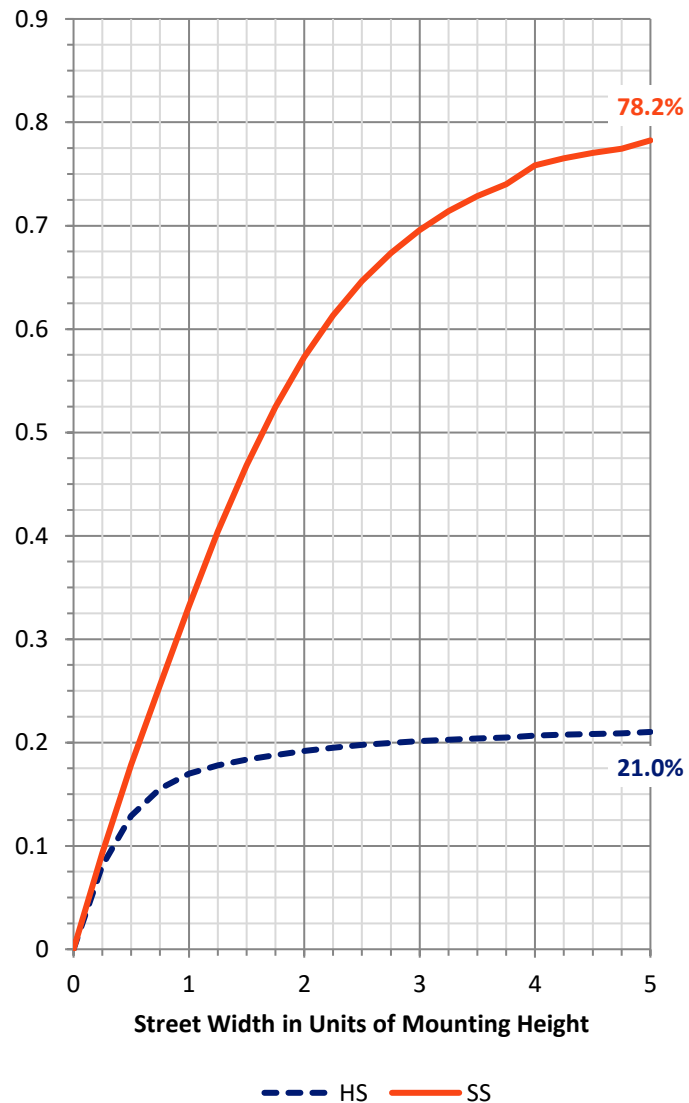
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1622.3	0.0	1622.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5923.0	0.0	5923.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	7545.3	0.0	7545.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.0
10°-20°	183.6	2.4
20°-30°	321.0	4.3
30°-40°	565.4	7.5
40°-50°	853.0	11.3
50°-60°	1356.9	18.0
60°-70°	1989.7	26.4
70°-80°	1865.8	24.7
80°-90°	336.9	4.5
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°	7545.3	100.0
0°-180°	7545.3	100.0

Coefficient of Utilization



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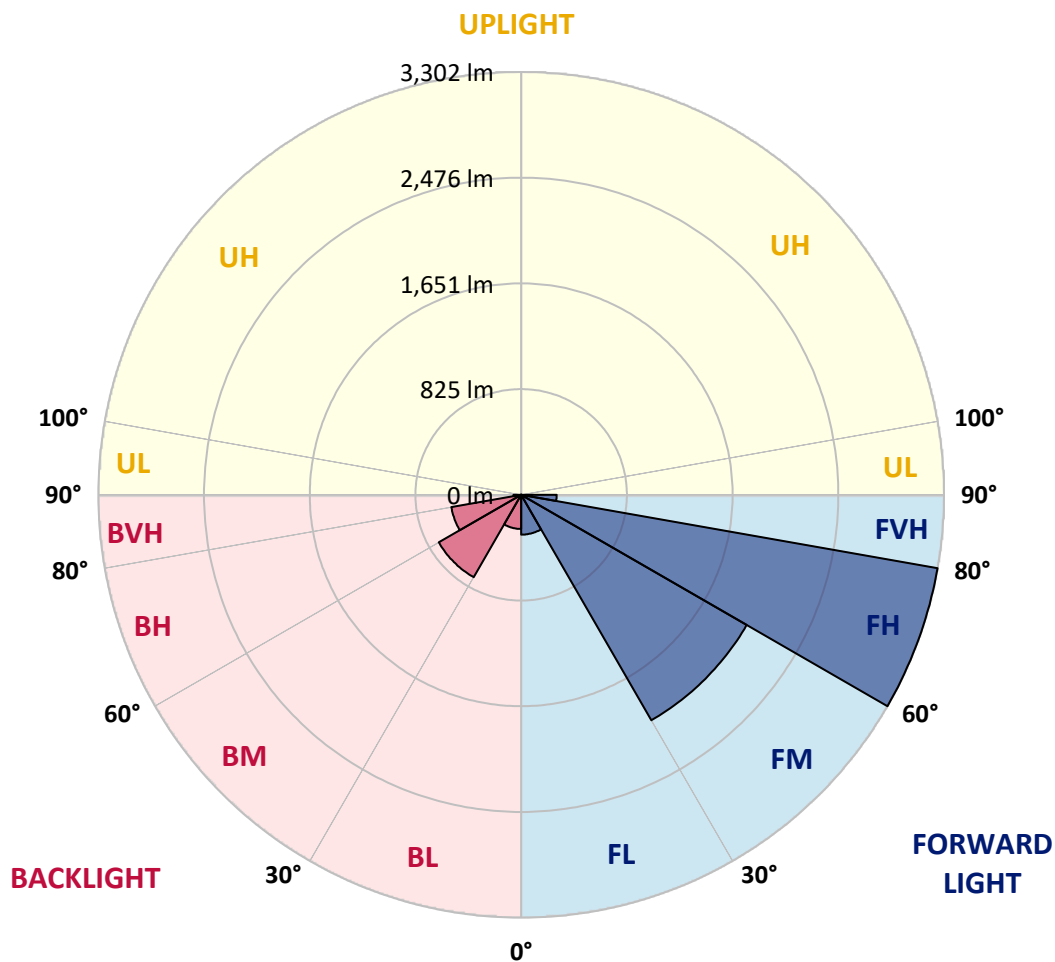
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.1	4.1			
FM	(30°-60°)	2032.7	26.9			
FH	(60°-80°)	3301.7	43.8			G2/5000
FVH	(80°-90°)	277.4	3.7			G3/500
BL	(0°-30°)	266.4	3.5	B1/500		
BM	(30°-60°)	742.6	9.8	B1/1000		
BH	(60°-80°)	553.8	7.3	B2/1000		G2/1000
BVH	(80°-90°)	59.5	0.8			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	796.6	830.0	846.8	863.5	869.0	874.6	874.6	871.8	871.8	871.8	877.4
5°	810.5	807.8	807.8	807.8	805.0	802.2	799.4	793.8	791.0	785.5	782.7
7.5°	743.7	799.4	802.2	805.0	805.0	802.2	807.8	813.3	807.8	799.4	788.3
10°	883.0	880.2	874.6	869.0	860.7	852.3	788.3	721.4	727.0	732.6	679.6
12.5°	766.0	818.9	841.2	863.5	866.3	866.3	821.7	774.3	713.1	651.8	626.7
15°	935.9	930.3	919.2	908.0	832.8	754.8	710.3	665.7	665.7	665.7	590.5
17.5°	788.3	785.5	835.6	885.8	857.9	830.0	766.0	701.9	607.2	509.7	571.0
20°	966.5	966.5	952.6	938.7	810.5	679.6	688.0	693.6	696.3	696.3	668.5
22.5°	810.5	805.0	810.5	813.3	813.3	813.3	696.3	579.4	643.4	704.7	640.6
25°	966.5	969.3	966.5	963.7	846.8	727.0	746.5	766.0	676.8	584.9	646.2
27.5°	844.0	841.2	827.3	813.3	816.1	818.9	757.6	693.6	729.8	766.0	701.9
30°	1033.4	1036.2	1027.8	1016.7	899.7	782.7	777.1	768.8	743.7	718.6	740.9
32.5°	1247.8	1247.8	1161.5	1075.2	1002.7	927.5	866.3	805.0	830.0	855.1	827.3
35°	1362.0	1356.5	1328.6	1298.0	1164.3	1027.8	944.2	857.9	866.3	871.8	871.8
37.5°	1565.4	1562.6	1523.6	1484.6	1303.6	1119.7	1011.1	899.7	916.4	930.3	910.8
40°	1818.9	1818.9	1788.2	1754.8	1523.6	1289.6	1136.4	983.2	980.5	974.9	952.6
42.5°	2064.0	2072.3	2052.8	2033.3	1763.1	1493.0	1292.4	1091.9	1066.8	1041.7	1019.4
45°	2225.5	2236.7	2253.4	2270.1	2002.7	1735.3	1501.3	1264.6	1217.2	1167.1	1128.1
47.5°	2389.9	2373.1	2395.4	2417.7	2189.3	1960.9	1704.7	1448.4	1370.4	1292.4	1250.6
50°	2543.0	2537.5	2545.8	2554.2	2367.6	2181.0	1916.3	1651.7	1557.0	1459.5	1412.2
52.5°	2743.6	2724.1	2713.0	2701.8	2543.0	2384.3	2133.6	1880.1	1768.7	1654.5	1598.8
55°	2935.8	2927.4	2910.7	2891.2	2754.7	2618.3	2353.6	2089.0	1972.0	1855.1	1791.0
57.5°	3133.5	3128.0	3125.2	3122.4	3002.6	2882.9	2612.7	2339.7	2206.0	2069.5	2016.6
60°	3320.2	3323.0	3345.2	3364.7	3272.8	3180.9	2907.9	2635.0	2465.1	2292.4	2239.4
62.5°	3431.6	3439.9	3495.6	3548.6	3498.4	3448.3	3167.0	2882.9	2704.6	2523.6	2487.3
65°	3289.5	3331.3	3492.9	3654.4	3654.4	3654.4	3398.2	3139.1	2983.1	2827.2	2796.5
67.5°	2972.0	3013.8	3245.0	3473.4	3593.1	3712.9	3545.8	3378.7	3272.8	3164.2	3125.2
70°	2710.2	2735.2	2952.5	3167.0	3467.8	3768.6	3660.0	3548.6	3543.0	3534.6	3428.8
72.5°	2490.1	2545.8	2724.1	2899.6	3314.6	3729.6	3726.8	3724.1	3838.3	3952.5	3749.1
75°	1991.5	1986.0	2153.1	2320.2	2788.2	3253.3	3515.1	3774.2	4102.9	4428.8	4116.8
77.5°	888.5	949.8	1108.6	1267.3	1687.9	2105.7	2609.9	3114.1	3838.3	4559.7	4242.1
80°	253.5	267.4	312.0	353.7	551.5	746.5	1275.7	1802.1	2713.0	3621.0	3406.5
82.5°	133.7	139.3	167.1	192.2	247.9	300.8	501.4	699.1	1481.8	2261.7	2066.8
85°	64.1	58.5	75.2	89.1	119.8	150.4	231.2	312.0	573.8	835.6	721.4
87.5°	13.9	13.9	16.7	16.7	25.1	33.4	50.1	66.8	64.1	58.5	69.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	880.2	883.0	885.8	883.0	880.2	877.4	877.4	874.6	874.6	871.8	866.3
5°	779.9	818.9	857.9	860.7	863.5	863.5	860.7	857.9	852.3	849.5	844.0
7.5°	777.1	763.2	749.3	752.1	754.8	757.6	757.6	749.3	746.5	724.2	701.9
10°	623.9	610.0	596.1	604.4	612.8	643.4	660.1	654.6	649.0	610.0	568.2
12.5°	601.6	596.1	590.5	548.7	506.9	543.1	568.2	565.4	557.1	520.9	484.7
15°	515.3	518.1	518.1	565.4	612.8	643.4	665.7	660.1	654.6	610.0	565.4
17.5°	629.5	598.9	565.4	557.1	548.7	562.6	543.1	512.5	532.0	526.4	520.9
20°	637.9	562.6	484.7	562.6	640.6	660.1	701.9	699.1	690.8	651.8	612.8
22.5°	576.6	621.1	662.9	621.1	579.4	551.5	537.6	532.0	529.2	540.4	548.7
25°	707.5	623.9	537.6	640.6	740.9	763.2	774.3	766.0	763.2	713.1	662.9
27.5°	635.1	679.6	724.2	757.6	791.0	818.9	902.5	821.7	818.9	771.5	721.4
30°	760.4	807.8	855.1	941.5	1027.8	1075.2	1091.9	1086.3	1072.4	997.2	922.0
32.5°	799.4	894.1	986.0	1025.0	1061.2	1111.4	1136.4	1133.6	1119.7	1030.6	938.7
35°	871.8	941.5	1011.1	1064.0	1114.2	1161.5	1183.8	1192.1	1175.4	1064.0	949.8
37.5°	891.3	980.5	1069.6	1125.3	1181.0	1217.2	1236.7	1261.8	1242.3	1108.6	972.1
40°	930.3	1036.2	1139.2	1194.9	1247.8	1281.3	1314.7	1345.3	1320.3	1158.7	994.4
42.5°	994.4	1103.0	1208.9	1272.9	1334.2	1381.5	1420.5	1462.3	1415.0	1206.1	994.4
45°	1089.1	1189.4	1289.6	1376.0	1459.5	1518.0	1573.7	1632.2	1537.5	1267.3	994.4
47.5°	1208.9	1306.3	1401.0	1537.5	1674.0	1726.9	1793.8	1849.5	1696.3	1345.3	994.4
50°	1362.0	1470.7	1579.3	1760.4	1938.6	1988.8	2072.3	2114.1	1908.0	1465.1	1019.4
52.5°	1540.3	1660.1	1777.1	1988.8	2200.4	2284.0	2395.4	2423.3	2122.5	1584.9	1044.5
55°	1726.9	1888.5	2047.3	2281.2	2512.4	2593.2	2752.0	2774.2	2398.2	1732.5	1064.0
57.5°	1963.7	2153.1	2339.7	2568.1	2793.7	2907.9	3155.8	3164.2	2718.5	1913.6	1105.8
60°	2186.5	2423.3	2657.3	2874.5	3091.8	3270.0	3556.9	3559.7	3019.3	2050.0	1077.9
62.5°	2451.1	2732.5	3011.0	3197.6	3384.2	3604.3	3949.7	3899.5	3231.0	2066.8	902.5
65°	2763.1	3052.8	3342.5	3501.2	3657.2	3907.9	4281.1	4088.9	3289.5	1972.0	651.8
67.5°	3083.4	3353.6	3623.8	3749.1	3874.5	4192.0	4523.5	4111.2	3203.2	1830.0	454.0
70°	3323.0	3576.4	3829.9	3938.5	4047.2	4389.8	4595.9	3966.4	2960.9	1657.3	353.7
72.5°	3543.0	3782.5	4019.3	4075.0	4127.9	4303.4	4228.2	3495.6	2495.7	1395.5	292.5
75°	3804.8	3958.0	4108.4	4008.2	3907.9	3671.1	3245.0	2548.6	1827.2	1038.9	250.7
77.5°	3924.6	3888.4	3849.4	3506.8	3164.2	2529.1	2016.6	1473.5	927.5	571.0	214.5
80°	3192.0	3047.2	2899.6	2325.8	1752.0	1197.7	785.5	498.6	339.8	256.3	172.7
82.5°	1869.0	1532.0	1194.9	877.4	559.9	392.7	256.3	203.3	158.8	150.4	139.3
85°	604.4	534.8	465.2	367.7	270.2	167.1	97.5	89.1	83.6	91.9	97.5
87.5°	80.8	80.8	78.0	58.5	36.2	19.5	11.1	8.4	8.4	11.1	11.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	866.3	863.5	860.7	857.9	855.1	849.5	827.3	805.0	796.6	785.5	777.1
5°	816.1	788.3	768.8	749.3	740.9	729.8	732.6	735.3	738.1	738.1	738.1
7.5°	707.5	713.1	715.8	715.8	724.2	729.8	735.3	738.1	727.0	715.8	701.9
10°	562.6	554.3	565.4	573.8	587.7	598.9	635.1	671.3	704.7	738.1	752.1
12.5°	512.5	540.4	518.1	495.8	540.4	582.1	632.3	682.4	713.1	740.9	715.8
15°	520.9	473.5	479.1	481.9	537.6	590.5	559.9	529.2	615.6	699.1	724.2
17.5°	512.5	504.2	534.8	562.6	509.7	456.8	532.0	604.4	643.4	682.4	671.3
20°	554.3	493.0	493.0	493.0	540.4	587.7	551.5	515.3	557.1	598.9	668.5
22.5°	573.8	596.1	551.5	504.2	534.8	565.4	565.4	562.6	610.0	654.6	643.4
25°	579.4	495.8	534.8	571.0	551.5	529.2	554.3	576.6	590.5	604.4	665.7
27.5°	662.9	604.4	559.9	512.5	548.7	584.9	576.6	568.2	579.4	590.5	604.4
30°	785.5	649.0	598.9	545.9	526.4	504.2	529.2	551.5	593.3	635.1	690.8
32.5°	821.7	701.9	621.1	537.6	534.8	529.2	537.6	543.1	590.5	635.1	713.1
35°	816.1	679.6	601.6	520.9	504.2	487.4	501.4	512.5	582.1	651.8	727.0
37.5°	810.5	646.2	565.4	484.7	473.5	459.6	473.5	487.4	540.4	593.3	662.9
40°	802.2	607.2	529.2	448.4	434.5	420.6	434.5	445.7	487.4	529.2	584.9
42.5°	782.7	568.2	490.2	409.5	398.3	384.4	395.5	406.7	442.9	479.1	512.5
45°	760.4	523.7	448.4	373.2	362.1	351.0	359.3	364.9	398.3	428.9	445.7
47.5°	735.3	476.3	406.7	337.0	325.9	314.7	323.1	328.7	353.7	378.8	384.4
50°	729.8	437.3	373.2	306.4	298.0	286.9	292.5	298.0	317.5	334.2	334.2
52.5°	718.6	390.0	337.0	281.3	275.8	267.4	270.2	273.0	286.9	300.8	298.0
55°	710.3	356.5	309.2	261.8	256.3	247.9	250.7	253.5	267.4	278.5	275.8
57.5°	718.6	328.7	286.9	242.3	236.8	231.2	236.8	242.3	256.3	270.2	270.2
60°	690.8	300.8	261.8	222.8	220.0	214.5	228.4	239.5	261.8	281.3	286.9
62.5°	590.5	275.8	242.3	208.9	211.7	211.7	236.8	259.0	289.7	317.5	323.1
65°	454.0	256.3	228.4	197.8	211.7	225.6	259.0	292.5	320.3	348.2	339.8
67.5°	348.2	242.3	220.0	195.0	225.6	253.5	284.1	314.7	328.7	339.8	325.9
70°	292.5	228.4	211.7	192.2	222.8	253.5	284.1	314.7	320.3	325.9	312.0
72.5°	256.3	217.3	200.5	183.8	208.9	234.0	270.2	303.6	309.2	312.0	298.0
75°	228.4	203.3	183.8	164.3	189.4	211.7	247.9	284.1	289.7	292.5	281.3
77.5°	200.5	186.6	164.3	142.1	167.1	192.2	225.6	259.0	267.4	275.8	261.8
80°	167.1	158.8	142.1	125.3	153.2	178.3	208.9	239.5	247.9	256.3	242.3
82.5°	133.7	128.1	117.0	105.8	133.7	161.6	192.2	220.0	228.4	234.0	217.3
85°	97.5	97.5	91.9	86.3	114.2	139.3	158.8	178.3	175.5	172.7	161.6
87.5°	13.9	13.9	19.5	25.1	33.4	39.0	50.1	58.5	61.3	61.3	47.4
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):

	165°	170°	175°	180°
0°	877.4	877.4	877.4	877.4
2.5°	768.8	768.8	766.0	771.5
5°	738.1	740.9	740.9	743.7
7.5°	688.0	674.1	657.3	660.1
10°	766.0	768.8	771.5	771.5
12.5°	688.0	676.8	662.9	665.7
15°	746.5	754.8	763.2	766.0
17.5°	657.3	654.6	651.8	649.0
20°	735.3	749.3	763.2	763.2
22.5°	632.3	632.3	632.3	635.1
25°	727.0	743.7	757.6	757.6
27.5°	615.6	654.6	693.6	724.2
30°	743.7	752.1	760.4	763.2
32.5°	788.3	830.0	869.0	877.4
35°	799.4	818.9	835.6	844.0
37.5°	732.6	749.3	766.0	777.1
40°	637.9	651.8	665.7	674.1
42.5°	543.1	545.9	548.7	562.6
45°	462.4	448.4	434.5	431.7
47.5°	387.2	367.7	348.2	345.4
50°	331.5	314.7	298.0	298.0
52.5°	292.5	281.3	270.2	270.2
55°	273.0	267.4	259.0	259.0
57.5°	270.2	267.4	264.6	264.6
60°	289.7	292.5	292.5	292.5
62.5°	325.9	328.7	328.7	328.7
65°	328.7	323.1	317.5	317.5
67.5°	312.0	303.6	295.3	289.7
70°	295.3	289.7	281.3	273.0
72.5°	281.3	275.8	267.4	259.0
75°	267.4	259.0	247.9	242.3
77.5°	247.9	242.3	234.0	228.4
80°	225.6	220.0	211.7	200.5
82.5°	200.5	203.3	203.3	175.5
85°	147.6	139.3	128.1	105.8
87.5°	30.6	27.9	22.3	19.5
90°	0.0	0.0	0.0	0.0

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