

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: P559951

Luminaire Tested: **SDL-PA1-100-830-U-T3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-830-U-T3
Description: Springdale
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8168.2 lumens
Efficiency: N/A
Efficacy: 87.1 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

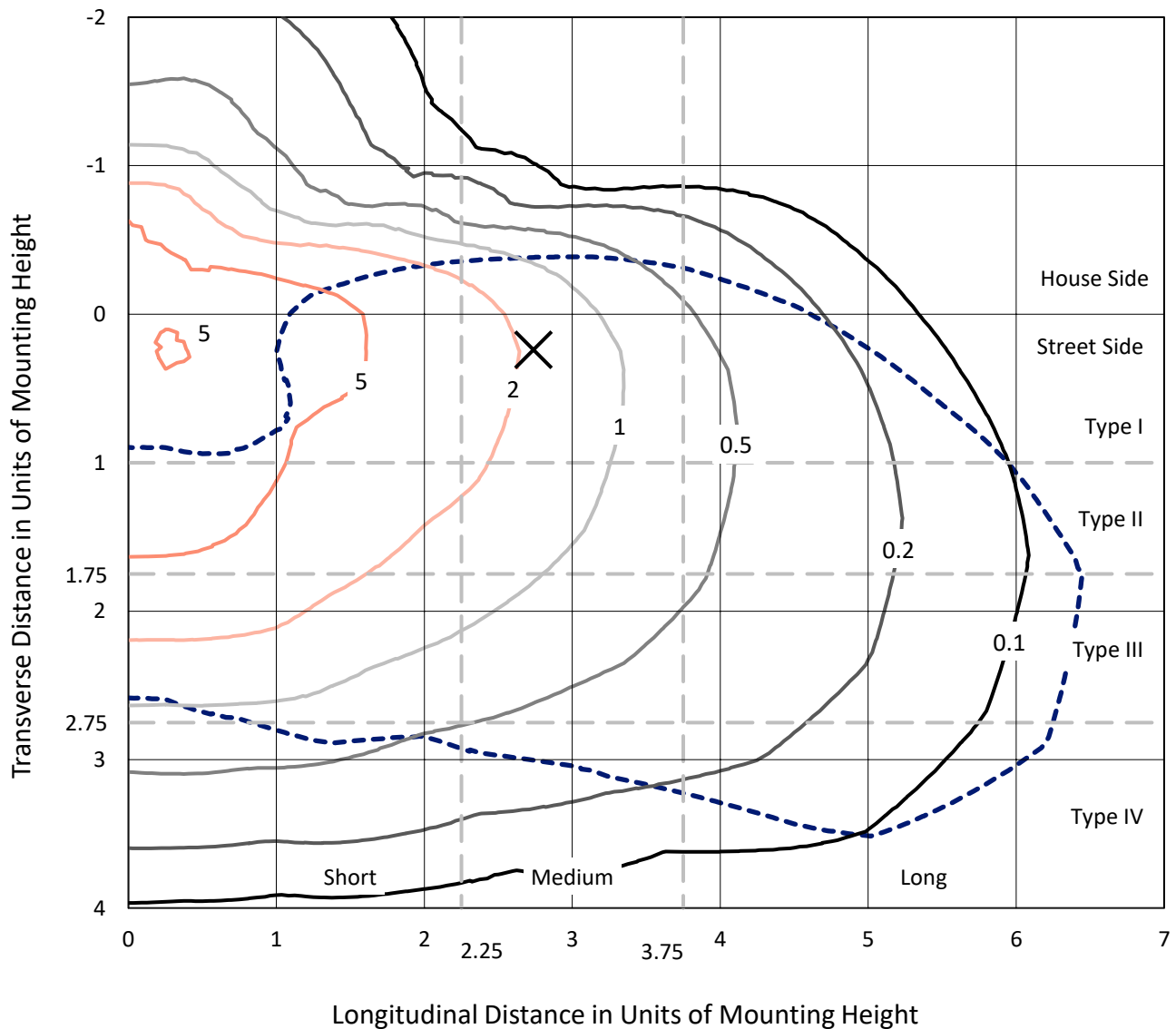


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

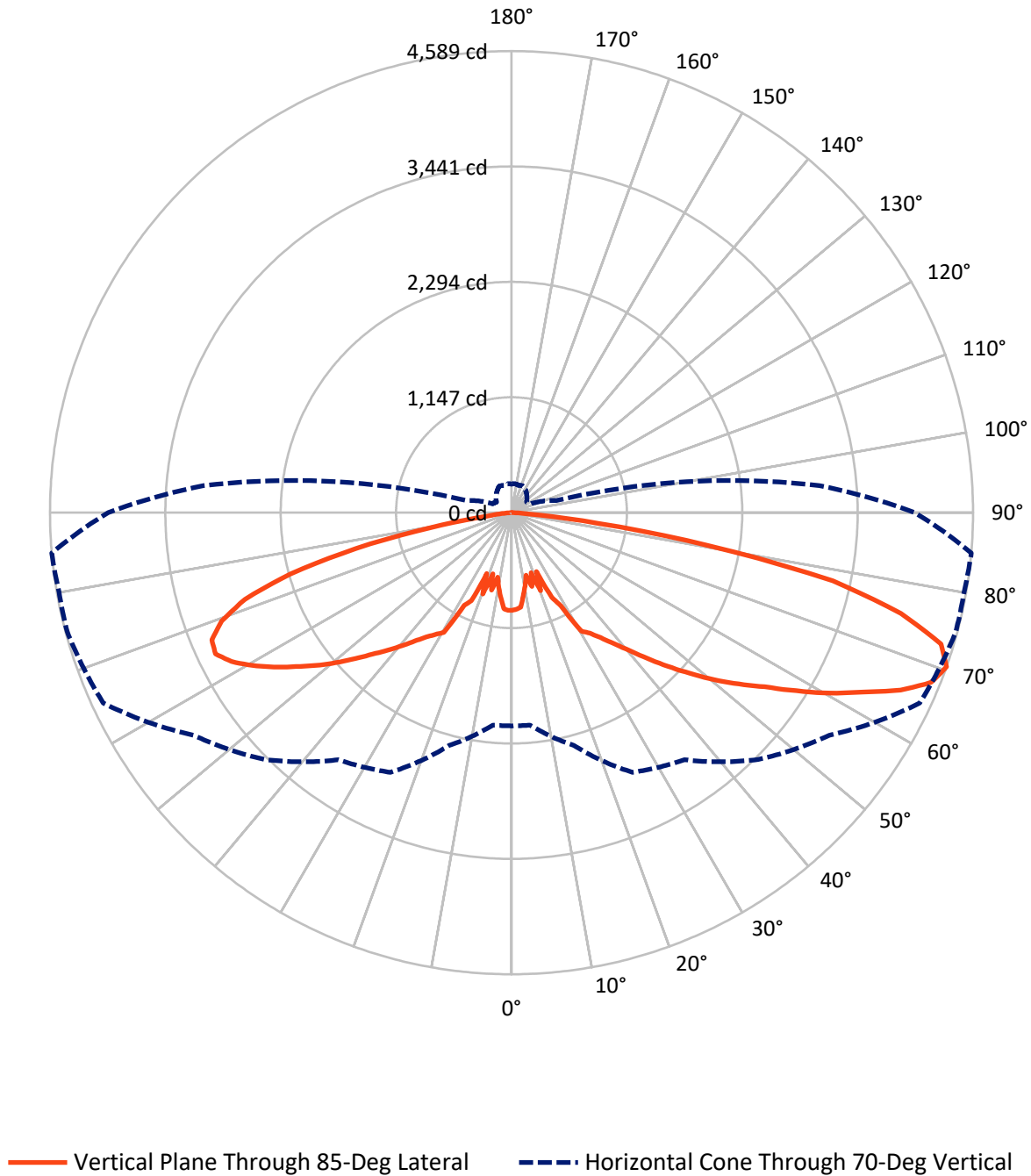


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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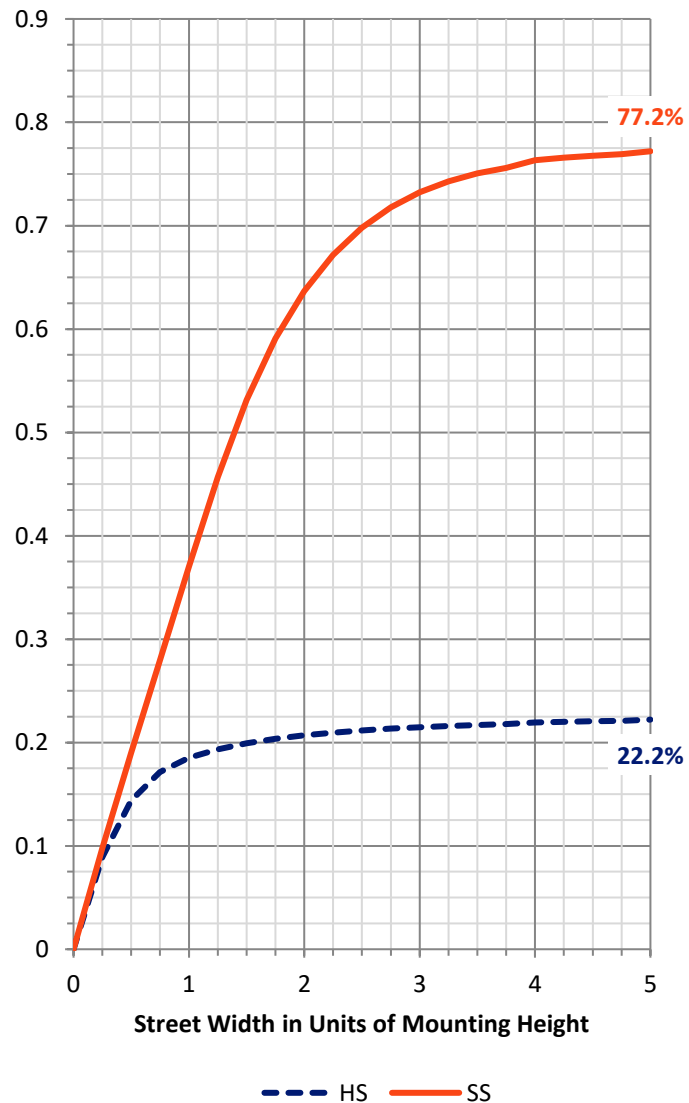
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1846.9	0.0	1846.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6321.3	0.0	6321.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	8168.2	0.0	8168.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.0
10°-20°	197.2	2.4
20°-30°	360.5	4.4
30°-40°	680.7	8.3
40°-50°	1108.9	13.6
50°-60°	1710.7	20.9
60°-70°	2096.8	25.7
70°-80°	1642.1	20.1
80°-90°	292.4	3.6
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°	8168.2	100.0
0°-180°	8168.2	100.0

Coefficient of Utilization



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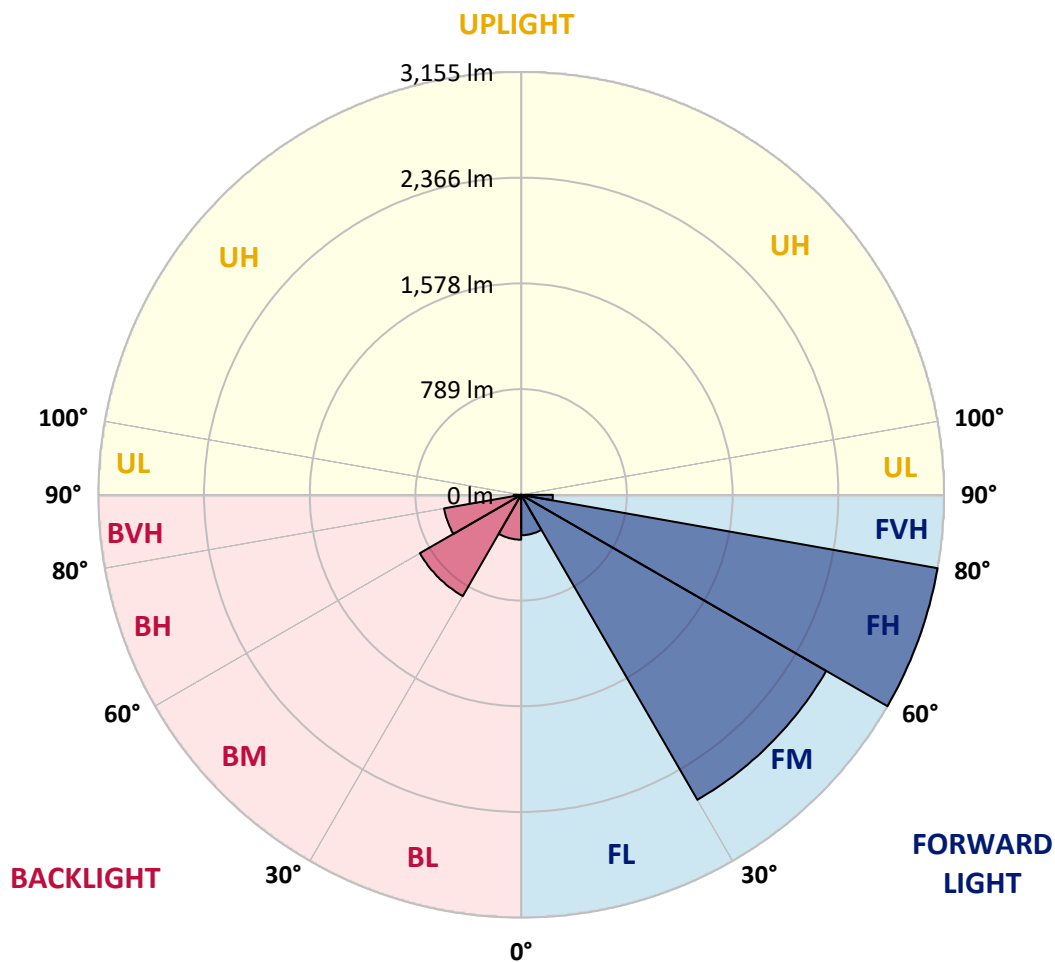
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.6	3.7			
FM	(30°-60°)	2627.9	32.2			
FH	(60°-80°)	3155.1	38.6			G2/5000
FVH	(80°-90°)	236.8	2.9			G3/500
BL	(0°-30°)	335.0	4.1	B1/500		
BM	(30°-60°)	872.4	10.7	B1/1000		
BH	(60°-80°)	583.9	7.1	B2/1000		G2/1000
BVH	(80°-90°)	55.6	0.7			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°	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3
2.5°	800.1	871.7	871.7	871.7	886.7	898.6	904.6	907.6	919.5	928.5	934.4
5°	746.4	749.3	749.3	749.3	752.3	755.3	758.3	761.3	767.3	770.2	779.2
7.5°	626.9	638.9	662.8	683.7	698.6	713.5	725.5	734.4	740.4	746.4	749.3
10°	698.6	698.6	698.6	698.6	698.6	698.6	662.8	626.9	629.9	629.9	612.0
12.5°	585.1	603.1	629.9	653.8	674.7	692.6	668.7	644.8	600.1	555.3	555.3
15°	677.7	677.7	674.7	671.7	632.9	594.1	558.3	522.4	546.3	570.2	528.4
17.5°	582.2	585.1	621.0	653.8	647.8	638.9	606.0	570.2	513.5	453.8	513.5
20°	746.4	737.4	719.5	701.6	618.0	534.4	549.3	564.2	579.2	591.1	591.1
22.5°	686.6	692.6	704.6	716.5	707.5	695.6	609.0	522.4	573.2	624.0	579.2
25°	940.4	940.4	904.6	868.8	779.2	686.6	701.6	713.5	626.9	537.4	612.0
27.5°	868.8	862.8	847.9	829.9	847.9	862.8	785.2	704.6	728.4	752.3	689.6
30°	1155.4	1155.4	1140.4	1125.5	997.1	865.8	856.8	844.9	794.1	740.4	776.2
32.5°	1385.2	1382.2	1313.6	1244.9	1173.3	1098.6	1021.0	940.4	934.4	928.5	922.5
35°	1659.9	1659.9	1621.1	1582.3	1424.0	1262.8	1170.3	1077.7	1050.9	1024.0	1044.9
37.5°	1815.1	1836.0	1821.1	1803.2	1630.0	1453.9	1325.5	1194.2	1167.3	1140.4	1149.4
40°	2030.1	2024.1	2021.1	2015.2	1815.1	1615.1	1477.8	1337.5	1319.6	1301.6	1301.6
42.5°	2355.5	2322.6	2286.8	2248.0	2045.0	1842.0	1689.7	1534.5	1501.7	1465.8	1468.8
45°	2803.3	2767.5	2683.9	2597.3	2391.3	2185.3	1982.3	1779.3	1722.6	1662.9	1656.9
47.5°	3078.0	3039.1	2997.4	2952.6	2731.7	2510.7	2301.8	2089.8	2006.2	1922.6	1889.8
50°	3361.6	3325.7	3292.9	3260.1	3066.0	2872.0	2663.0	2454.0	2322.6	2191.3	2134.6
52.5°	3630.3	3564.6	3531.7	3498.9	3334.7	3167.5	2949.6	2731.7	2633.1	2534.6	2412.2
55°	3761.6	3681.0	3669.1	3654.1	3531.7	3406.4	3197.4	2988.4	2877.9	2764.5	2642.1
57.5°	3576.5	3582.5	3648.2	3713.9	3645.2	3576.5	3379.5	3182.4	3072.0	2961.5	2869.0
60°	3409.3	3454.1	3534.7	3615.3	3621.3	3624.3	3519.8	3415.3	3292.9	3170.5	3098.9
62.5°	3179.5	3212.3	3337.7	3460.1	3552.6	3642.2	3534.7	3427.3	3385.5	3340.7	3295.9
65°	2869.0	2877.9	3021.2	3161.5	3328.7	3492.9	3409.3	3325.7	3397.4	3466.1	3472.0
67.5°	2489.8	2516.7	2657.0	2797.3	3000.3	3200.4	3197.4	3194.4	3346.6	3495.9	3600.4
70°	2119.6	2119.6	2257.0	2394.3	2621.2	2848.1	2922.7	2997.4	3233.2	3469.0	3663.1
72.5°	1597.2	1671.8	1743.5	1815.1	2068.9	2319.7	2483.9	2648.1	3000.3	3349.6	3645.2
75°	880.7	886.7	949.4	1012.1	1265.8	1519.6	1767.4	2015.2	2486.8	2958.5	3424.3
77.5°	289.6	280.6	316.5	349.3	498.6	644.8	853.8	1062.8	1582.3	2101.7	2851.1
80°	161.2	164.2	176.1	188.1	235.8	280.6	382.1	483.6	704.6	922.5	1812.1
82.5°	107.5	110.5	122.4	134.3	155.2	176.1	232.9	286.6	307.5	325.4	818.0
85°	68.7	71.6	77.6	83.6	89.6	92.5	131.4	170.2	155.2	140.3	244.8
87.5°	14.9	14.9	17.9	17.9	20.9	23.9	29.9	35.8	32.8	26.9	35.8
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°	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3
2.5°	937.4	943.4	946.4	949.4	952.3	958.3	961.3	964.3	970.3	973.2	973.2
5°	788.1	841.9	892.6	910.6	928.5	937.4	943.4	952.3	958.3	964.3	970.3
7.5°	752.3	755.3	758.3	779.2	800.1	818.0	835.9	841.9	856.8	847.9	835.9
10°	591.1	594.1	594.1	615.0	635.9	698.6	740.4	749.3	758.3	722.5	683.7
12.5°	552.3	567.2	582.2	573.2	564.2	609.0	638.9	650.8	656.8	632.9	609.0
15°	483.6	498.6	510.5	579.2	647.8	707.5	761.3	776.2	794.1	755.3	713.5
17.5°	573.2	567.2	558.3	570.2	582.2	597.1	626.9	635.9	635.9	647.8	659.8
20°	591.1	525.4	459.8	582.2	704.6	758.3	827.0	850.8	856.8	824.0	791.1
22.5°	531.4	606.0	680.7	665.7	650.8	635.9	635.9	644.8	653.8	659.8	665.7
25°	683.7	621.0	558.3	701.6	844.9	901.6	934.4	949.4	961.3	919.5	874.7
27.5°	626.9	710.5	791.1	853.8	916.5	979.2	1047.9	1113.6	1033.0	994.1	955.3
30°	809.0	877.7	946.4	1095.6	1244.9	1325.5	1367.3	1367.3	1367.3	1310.6	1250.9
32.5°	916.5	1035.9	1155.4	1236.0	1313.6	1394.2	1427.0	1427.0	1427.0	1358.4	1286.7
35°	1062.8	1158.3	1253.9	1346.4	1439.0	1501.7	1525.5	1516.6	1498.7	1406.1	1313.6
37.5°	1158.3	1286.7	1415.1	1510.6	1603.2	1642.0	1650.9	1624.1	1597.2	1474.8	1349.4
40°	1301.6	1442.0	1579.3	1680.8	1782.3	1815.1	1797.2	1761.4	1713.6	1549.4	1385.2
42.5°	1468.8	1609.1	1749.5	1868.9	1985.3	2006.2	1979.3	1922.6	1839.0	1615.1	1388.2
45°	1650.9	1791.2	1928.6	2062.9	2197.3	2212.2	2176.4	2092.8	1970.4	1677.8	1385.2
47.5°	1853.9	1964.4	2074.9	2265.9	2457.0	2439.1	2385.3	2289.8	2128.6	1752.4	1373.3
50°	2077.8	2164.4	2248.0	2486.8	2725.7	2671.9	2612.2	2507.7	2295.8	1839.0	1379.3
52.5°	2286.8	2370.4	2454.0	2701.8	2946.6	2895.8	2830.2	2737.6	2465.9	1931.6	1394.2
55°	2519.7	2609.2	2698.8	2961.5	3224.2	3137.7	3054.1	2994.4	2633.1	2009.2	1385.2
57.5°	2773.4	2886.9	3000.3	3242.2	3481.0	3388.4	3340.7	3263.1	2818.2	2101.7	1385.2
60°	3027.2	3164.5	3301.9	3513.8	3725.8	3651.2	3642.2	3534.7	2991.4	2170.4	1346.4
62.5°	3251.1	3457.1	3663.1	3830.3	3994.5	3922.8	3925.8	3800.4	3152.6	2185.3	1215.1
65°	3478.0	3743.7	4006.4	4128.8	4251.2	4200.5	4251.2	4027.3	3260.1	2125.6	991.2
67.5°	3701.9	3994.5	4287.0	4379.6	4472.1	4442.3	4502.0	4102.0	3236.2	1970.4	701.6
70°	3857.1	4167.6	4478.1	4525.9	4573.6	4567.7	4588.6	4009.4	3075.0	1770.3	462.7
72.5°	3940.7	4233.3	4522.9	4543.8	4561.7	4552.8	4466.2	3719.8	2785.4	1552.4	319.4
75°	3887.0	4170.6	4454.2	4412.4	4370.6	4287.0	3997.5	3203.3	2283.8	1259.8	235.8
77.5°	3600.4	3907.9	4215.4	4107.9	3997.5	3752.7	3266.0	2400.3	1588.2	886.7	182.1
80°	2701.8	3080.9	3460.1	3331.7	3200.4	2683.9	1988.3	1343.4	821.0	480.7	140.3
82.5°	1307.6	1519.6	1731.5	1698.7	1665.9	1233.0	859.8	483.6	235.8	173.2	110.5
85°	346.3	513.5	680.7	650.8	621.0	328.4	143.3	125.4	92.5	86.6	77.6
87.5°	41.8	47.8	50.8	35.8	17.9	14.9	14.9	9.0	9.0	11.9	11.9
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°	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3
2.5°	979.2	982.2	982.2	982.2	982.2	982.2	958.3	934.4	928.5	922.5	910.6
5°	943.4	913.5	892.6	871.7	871.7	868.8	877.7	886.7	892.6	895.6	898.6
7.5°	838.9	841.9	859.8	874.7	889.7	901.6	910.6	916.5	910.6	901.6	865.8
10°	686.6	689.6	704.6	716.5	737.4	755.3	806.1	853.8	910.6	967.3	982.2
12.5°	653.8	695.6	671.7	647.8	713.5	776.2	841.9	904.6	949.4	991.2	961.3
15°	665.7	618.0	626.9	635.9	716.5	797.1	749.3	698.6	818.0	937.4	964.3
17.5°	662.8	662.8	707.5	752.3	677.7	600.1	710.5	818.0	865.8	910.6	874.7
20°	707.5	621.0	653.8	683.7	743.4	800.1	752.3	704.6	722.5	740.4	856.8
22.5°	737.4	806.1	731.4	653.8	707.5	761.3	752.3	743.4	797.1	850.8	821.0
25°	770.2	662.8	716.5	767.3	707.5	644.8	692.6	737.4	722.5	707.5	800.1
27.5°	883.7	809.0	740.4	671.7	707.5	740.4	704.6	665.7	680.7	695.6	689.6
30°	1068.8	883.7	797.1	710.5	665.7	618.0	621.0	624.0	641.9	659.8	710.5
32.5°	1116.5	946.4	821.0	695.6	665.7	635.9	609.0	579.2	606.0	632.9	692.6
35°	1128.5	940.4	806.1	671.7	624.0	576.2	558.3	540.4	585.1	629.9	683.7
37.5°	1122.5	892.6	749.3	606.0	570.2	534.4	525.4	513.5	543.3	570.2	609.0
40°	1107.6	829.9	686.6	543.3	513.5	483.6	477.7	471.7	492.6	513.5	537.4
42.5°	1080.7	770.2	626.9	483.6	462.7	441.8	435.9	426.9	444.8	462.7	471.7
45°	1047.9	710.5	576.2	438.9	423.9	406.0	397.1	385.1	403.0	418.0	420.9
47.5°	1015.0	653.8	531.4	406.0	394.1	379.1	370.2	358.2	373.2	385.1	388.1
50°	988.2	594.1	483.6	373.2	361.2	349.3	340.3	331.4	346.3	358.2	358.2
52.5°	973.2	549.3	441.8	334.4	328.4	322.4	319.4	313.5	325.4	337.4	340.3
55°	937.4	486.6	394.1	298.5	301.5	301.5	298.5	292.6	316.5	337.4	346.3
57.5°	898.6	412.0	343.3	271.7	277.6	283.6	286.6	289.6	316.5	340.3	352.3
60°	847.9	349.3	298.5	247.8	256.7	262.7	277.6	289.6	313.5	337.4	343.3
62.5°	758.3	298.5	262.7	226.9	238.8	250.8	268.7	286.6	304.5	322.4	322.4
65°	626.9	259.7	235.8	209.0	226.9	241.8	262.7	283.6	298.5	310.5	307.5
67.5°	468.7	232.9	214.9	194.1	214.9	232.9	250.8	268.7	286.6	304.5	298.5
70°	337.4	209.0	197.0	182.1	200.0	217.9	235.8	253.8	271.7	289.6	286.6
72.5°	256.7	191.1	179.1	167.2	185.1	200.0	220.9	241.8	259.7	277.6	271.7
75°	206.0	173.2	164.2	152.3	170.2	188.1	209.0	226.9	244.8	262.7	256.7
77.5°	170.2	155.2	146.3	137.3	152.3	167.2	188.1	209.0	226.9	241.8	235.8
80°	137.3	131.4	125.4	116.4	134.3	149.3	170.2	188.1	203.0	217.9	209.0
82.5°	107.5	104.5	101.5	95.5	110.5	125.4	146.3	167.2	179.1	191.1	185.1
85°	80.6	80.6	77.6	74.6	86.6	95.5	107.5	116.4	128.4	137.3	131.4
87.5°	11.9	11.9	17.9	20.9	20.9	20.9	29.9	38.8	38.8	35.8	29.9
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°	970.3	970.3	970.3	970.3
2.5°	898.6	898.6	898.6	901.6
5°	901.6	904.6	904.6	910.6
7.5°	827.0	824.0	821.0	821.0
10°	994.1	1000.1	1003.1	1009.1
12.5°	928.5	892.6	856.8	856.8
15°	991.2	997.1	1000.1	1006.1
17.5°	838.9	835.9	832.9	827.0
20°	970.3	976.2	979.2	979.2
22.5°	791.1	791.1	788.1	788.1
25°	892.6	892.6	892.6	898.6
27.5°	680.7	701.6	722.5	749.3
30°	761.3	764.3	767.3	767.3
32.5°	752.3	791.1	829.9	835.9
35°	737.4	737.4	734.4	737.4
37.5°	647.8	638.9	626.9	632.9
40°	558.3	537.4	516.5	513.5
42.5°	480.7	462.7	441.8	441.8
45°	423.9	412.0	397.1	391.1
47.5°	388.1	376.2	364.2	361.2
50°	355.3	343.3	331.4	331.4
52.5°	343.3	334.4	322.4	319.4
55°	355.3	337.4	319.4	313.5
57.5°	361.2	340.3	319.4	310.5
60°	346.3	334.4	319.4	307.5
62.5°	319.4	313.5	307.5	301.5
65°	301.5	301.5	298.5	292.6
67.5°	292.6	295.6	295.6	289.6
70°	280.6	286.6	289.6	283.6
72.5°	265.7	268.7	268.7	259.7
75°	247.8	244.8	241.8	235.8
77.5°	226.9	223.9	217.9	212.0
80°	200.0	197.0	194.1	185.1
82.5°	176.1	182.1	185.1	152.3
85°	122.4	110.5	98.5	80.6
87.5°	23.9	17.9	9.0	9.0
90°	0.0	0.0	0.0	0.0

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