

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: P560643

Luminaire Tested: **SDL-PA1-50-830-U-SL3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-16)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-50-830-U-SL3
Description: Springdale
(1) 80 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5085.3 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.4
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

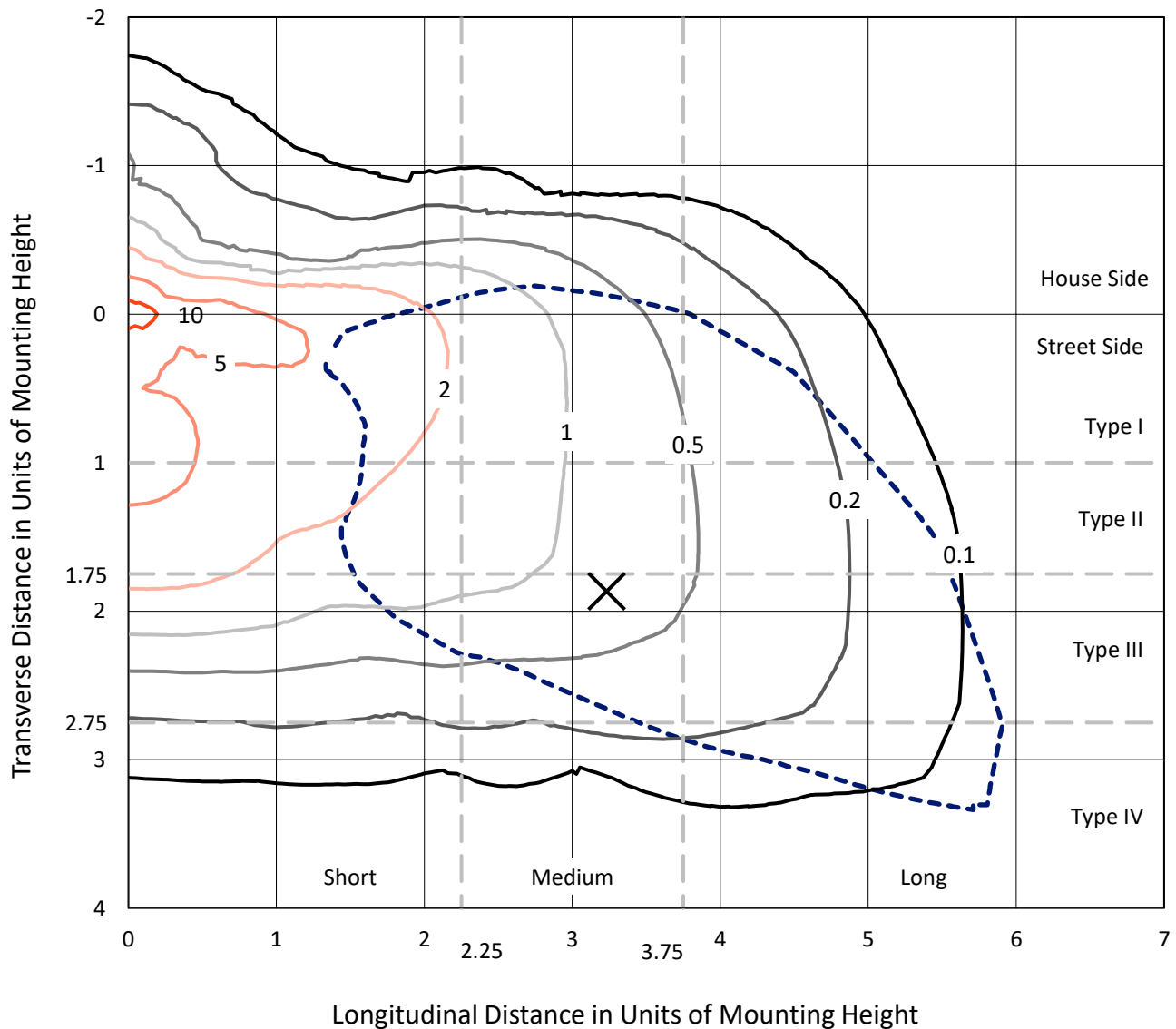


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

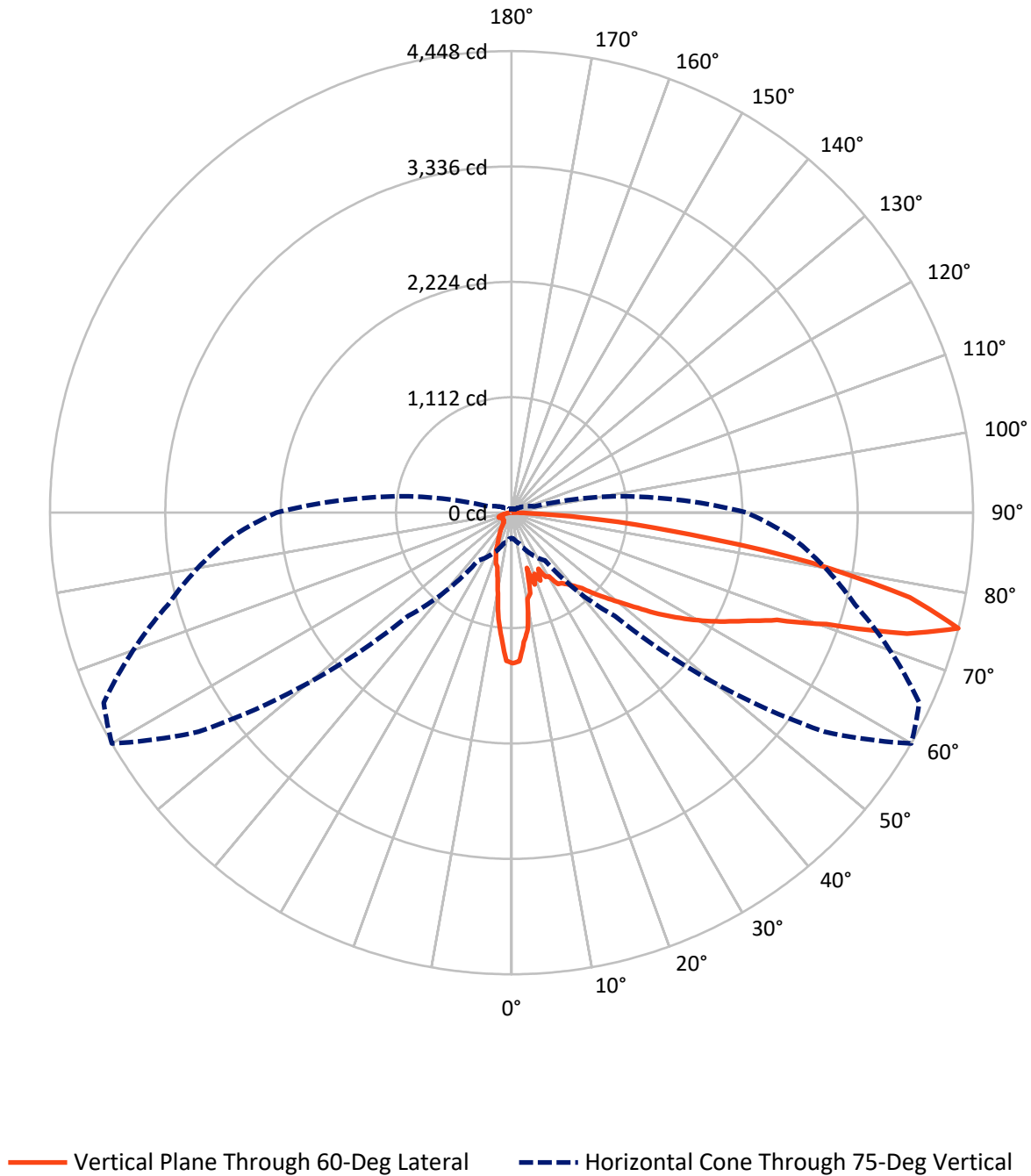


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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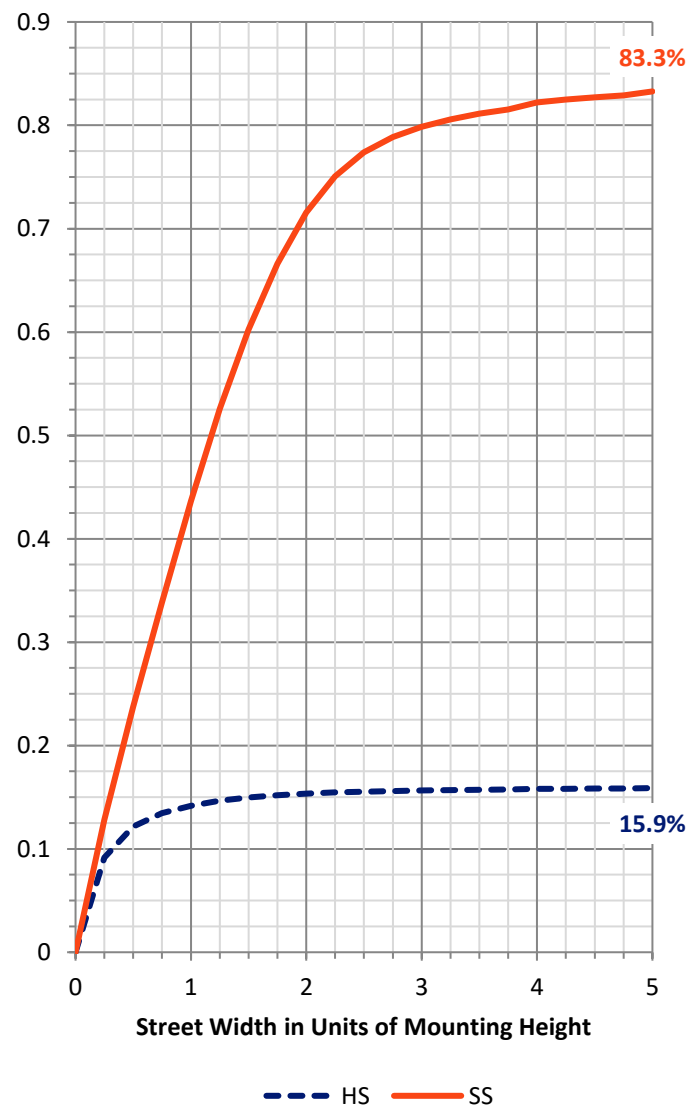
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	817.4	0.0	817.4
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	4267.9	0.0	4267.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	5085.3	0.0	5085.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	2.1
10°-20°	190.9	3.8
20°-30°	250.1	4.9
30°-40°	412.7	8.1
40°-50°	644.5	12.7
50°-60°	981.2	19.3
60°-70°	1215.7	23.9
70°-80°	1074.0	21.1
80°-90°	210.5	4.1
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°	5085.3	100.0
0°-180°	5085.3	100.0

Coefficient of Utilization



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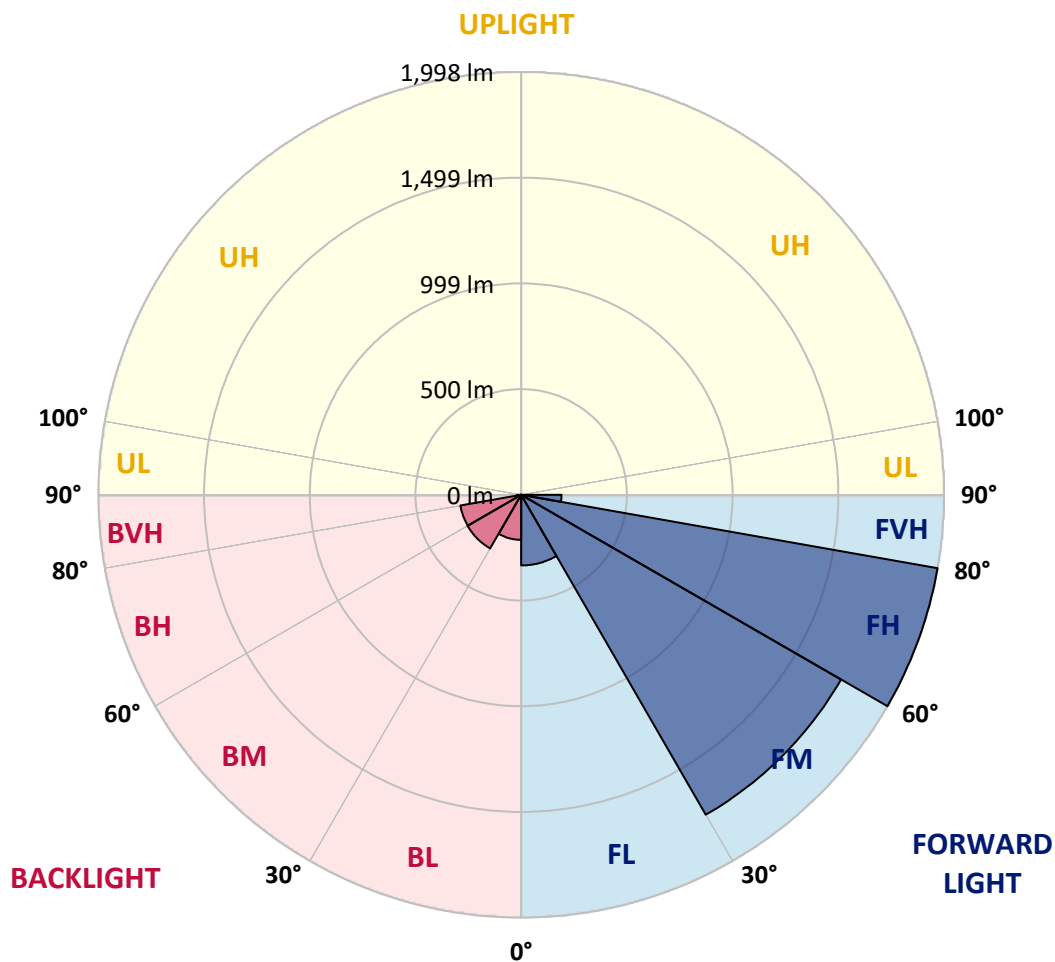
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.9	6.6			
FM	(30°-60°)	1745.4	34.3			
FH	(60°-80°)	1998.2	39.3			G2/5000
FVH	(80°-90°)	190.5	3.7			G2/225
BL	(0°-30°)	213.0	4.2	B1/500		
BM	(30°-60°)	292.9	5.8	B1/1000		
BH	(60°-80°)	291.5	5.7	B1/500		G1/500
BVH	(80°-90°)	20.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5
2.5°	1204.7	1340.7	1309.0	1277.4	1325.8	1372.3	1387.2	1400.3	1407.7	1415.2	1422.6
5°	1119.1	1121.0	1122.8	1124.7	1130.3	1134.0	1141.4	1148.9	1156.3	1161.9	1169.4
7.5°	864.0	893.8	942.2	990.6	1020.4	1048.3	1065.1	1080.0	1091.2	1102.3	1113.5
10°	960.8	966.4	968.3	968.3	977.6	986.9	916.1	843.5	878.9	914.3	875.2
12.5°	754.1	774.6	836.1	895.6	914.3	931.0	897.5	864.0	811.9	757.9	754.1
15°	865.9	871.4	873.3	873.3	815.6	757.9	718.8	677.8	709.4	739.2	670.3
17.5°	670.3	675.9	724.3	772.8	782.1	791.4	750.4	709.4	618.2	525.1	612.6
20°	797.0	800.7	800.7	800.7	703.9	607.0	614.5	620.1	649.9	679.6	655.4
22.5°	642.4	642.4	642.4	642.4	672.2	700.1	640.5	581.0	614.5	648.0	618.2
25°	808.1	813.7	800.7	785.8	696.4	607.0	635.0	662.9	612.6	562.3	607.0
27.5°	737.4	731.8	705.7	677.8	690.8	703.9	642.4	581.0	620.1	659.2	640.5
30°	979.4	962.7	934.8	906.8	800.7	694.5	677.8	661.0	627.5	592.1	631.2
32.5°	1301.6	1258.7	1128.4	998.1	932.9	867.7	783.9	700.1	692.7	683.4	694.5
35°	1387.2	1359.3	1305.3	1249.4	1137.7	1024.1	918.0	810.0	774.6	737.4	744.8
37.5°	1404.0	1394.7	1383.5	1370.5	1256.9	1143.3	1027.9	912.4	875.2	836.1	808.1
40°	1417.0	1424.5	1445.0	1463.6	1350.0	1234.5	1130.3	1024.1	985.0	944.1	895.6
42.5°	1476.6	1497.1	1523.2	1547.4	1443.1	1338.8	1247.6	1156.3	1106.1	1055.8	1011.1
45°	1614.4	1625.6	1653.5	1679.6	1580.9	1480.3	1376.1	1269.9	1227.1	1184.3	1139.6
47.5°	1815.5	1834.1	1832.3	1830.4	1720.5	1608.8	1491.5	1372.3	1344.4	1314.6	1271.8
50°	2068.7	2055.7	2020.3	1984.9	1865.8	1744.7	1607.0	1467.3	1454.3	1439.4	1404.0
52.5°	2195.4	2186.1	2137.6	2087.4	1966.3	1845.3	1696.3	1545.5	1562.3	1579.0	1545.5
55°	2202.8	2197.2	2161.8	2126.5	2009.2	1891.8	1759.6	1627.4	1668.4	1709.4	1696.3
57.5°	2148.8	2150.7	2139.5	2126.5	2022.2	1917.9	1808.1	1698.2	1769.0	1837.8	1850.9
60°	2011.0	2038.9	2057.6	2076.2	2011.0	1945.8	1850.9	1755.9	1863.9	1971.9	2007.3
62.5°	1755.9	1780.1	1847.2	1912.3	1925.4	1936.5	1873.2	1808.1	1953.3	2096.7	2154.4
65°	1361.2	1394.7	1495.2	1595.8	1700.1	1804.3	1819.2	1834.1	2079.9	2325.7	2374.1
67.5°	849.1	867.7	973.9	1078.1	1288.5	1497.1	1616.3	1735.4	2160.0	2582.7	2659.0
70°	448.8	476.7	528.8	579.1	759.7	940.3	1182.4	1424.5	2038.9	2653.4	2966.3
72.5°	340.8	351.9	379.9	407.8	471.1	534.4	687.1	839.8	1595.8	2349.9	3070.5
75°	245.8	255.1	284.9	312.8	376.1	437.6	500.9	562.3	985.0	1407.7	2545.4
77.5°	143.4	147.1	162.0	175.0	273.7	372.4	441.3	508.3	610.8	711.3	1817.4
80°	98.7	100.6	106.1	111.7	154.6	197.4	329.6	461.8	508.3	553.0	1204.7
82.5°	65.2	74.5	78.2	81.9	96.8	111.7	193.7	273.7	402.2	528.8	823.0
85°	33.5	37.2	44.7	50.3	57.7	63.3	87.5	109.9	333.3	554.9	592.1
87.5°	3.7	5.6	7.4	7.4	9.3	11.2	16.8	22.3	100.6	178.8	152.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5
2.5°	1430.1	1433.8	1431.9	1435.6	1437.5	1439.4	1441.2	1441.2	1439.4	1435.6	1431.9
5°	1176.8	1251.3	1377.9	1391.0	1404.0	1407.7	1411.4	1413.3	1409.6	1404.0	1398.4
7.5°	1122.8	1134.0	1020.4	1111.6	1201.0	1208.5	1214.1	1210.3	1212.2	1161.9	1109.8
10°	836.1	845.4	849.1	877.0	903.1	964.5	1026.0	1016.7	1009.2	919.9	828.6
12.5°	750.4	798.8	810.0	763.4	716.9	780.2	843.5	836.1	823.0	741.1	659.2
15°	601.4	551.2	659.2	759.7	858.4	918.0	975.7	959.0	944.1	839.8	733.6
17.5°	698.3	728.1	692.7	707.6	722.5	767.2	810.0	783.9	774.6	702.0	627.5
20°	631.2	629.4	605.2	692.7	780.2	867.7	953.4	927.3	882.6	741.1	597.7
22.5°	588.4	709.4	761.6	750.4	737.4	703.9	668.5	646.1	612.6	581.0	547.4
25°	649.9	599.6	640.5	774.6	906.8	931.0	955.2	899.4	826.8	683.4	540.0
27.5°	621.9	700.1	752.3	841.6	929.2	1013.0	1096.7	1022.3	927.3	748.5	567.9
30°	670.3	713.2	858.4	1026.0	1193.6	1223.4	1251.3	1148.9	1022.3	841.6	661.0
32.5°	705.7	819.3	947.8	1078.1	1206.6	1229.0	1251.3	1135.9	990.6	791.4	592.1
35°	750.4	834.2	951.5	1104.2	1256.9	1262.5	1266.2	1132.1	968.3	743.0	515.8
37.5°	780.2	875.2	1001.8	1163.8	1325.8	1314.6	1301.6	1148.9	960.8	709.4	458.1
40°	847.2	929.2	1065.1	1230.8	1396.5	1377.9	1359.3	1184.3	962.7	675.9	387.3
42.5°	964.5	996.2	1143.3	1320.2	1497.1	1476.6	1454.3	1245.7	985.0	657.3	327.7
45°	1093.0	1107.9	1234.5	1435.6	1636.7	1610.7	1584.6	1340.7	1026.0	648.0	270.0
47.5°	1227.1	1223.4	1340.7	1584.6	1826.7	1770.8	1715.0	1452.4	1102.3	666.6	230.9
50°	1366.7	1361.2	1474.7	1737.3	1999.8	1940.3	1880.7	1586.5	1189.9	700.1	208.5
52.5°	1510.1	1523.2	1607.0	1880.7	2152.5	2098.5	2042.7	1731.7	1275.5	737.4	199.2
55°	1681.4	1722.4	1755.9	2029.6	2303.4	2249.4	2193.5	1880.7	1394.7	795.1	195.5
57.5°	1862.1	1916.1	1930.9	2180.5	2430.0	2394.6	2357.4	2022.2	1515.7	862.1	206.7
60°	2042.7	2113.4	2167.4	2368.5	2567.8	2526.8	2485.8	2165.6	1629.3	936.6	243.9
62.5°	2210.3	2308.9	2396.5	2543.6	2688.8	2640.4	2592.0	2290.3	1757.8	1039.0	318.4
65°	2420.7	2508.2	2603.2	2700.0	2794.9	2748.4	2701.8	2446.7	1929.1	1167.5	404.1
67.5°	2735.4	2761.4	2809.8	2869.4	2927.1	2899.2	2869.4	2638.5	2078.1	1242.0	404.1
70°	3277.2	3219.5	3146.9	3145.0	3141.3	3096.6	3050.0	2746.5	2087.4	1212.2	337.0
72.5°	3789.3	3986.7	3755.8	3588.2	3420.6	3223.2	3024.0	2601.3	1843.4	1055.8	268.1
75°	3681.3	4448.4	4336.7	3882.4	3428.0	3070.5	2713.0	2266.1	1517.6	873.3	229.0
77.5°	2921.6	3925.2	4031.3	3614.2	3195.3	2711.1	2225.2	1752.2	1052.1	621.9	191.8
80°	1854.6	2934.6	2953.2	2565.9	2176.7	1657.2	1137.7	763.4	506.5	329.6	152.7
82.5°	1117.2	1737.3	1512.0	1083.7	655.4	454.3	251.4	242.1	186.2	137.8	89.4
85°	629.4	851.0	610.8	400.3	189.9	135.9	80.1	85.7	81.9	67.0	50.3
87.5°	124.8	147.1	100.6	57.7	14.9	14.9	13.0	13.0	9.3	9.3	7.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5	1450.5
2.5°	1431.9	1431.9	1428.2	1424.5	1422.6	1420.7	1364.9	1309.0	1271.8	1232.7	1223.4
5°	1329.5	1260.6	1208.5	1156.3	1145.2	1134.0	1132.1	1130.3	1124.7	1117.2	1115.4
7.5°	1050.2	988.8	1031.6	1072.5	1065.1	1055.8	1050.2	1042.7	1029.7	1016.7	951.5
10°	808.1	787.6	787.6	785.8	770.9	756.0	789.5	823.0	860.3	897.5	893.8
12.5°	689.0	716.9	644.3	569.8	610.8	649.9	687.1	722.5	741.1	759.7	702.0
15°	649.9	564.2	540.0	515.8	534.4	553.0	499.0	443.2	486.0	528.8	538.1
17.5°	582.8	538.1	513.9	487.9	417.1	344.5	368.7	392.9	391.0	389.2	379.9
20°	543.7	487.9	445.0	400.3	366.8	333.3	297.9	260.7	243.9	225.3	270.0
22.5°	517.7	487.9	398.5	309.1	283.0	257.0	229.0	199.2	210.4	219.7	227.2
25°	452.5	363.1	312.8	262.5	221.6	178.8	180.6	182.5	173.2	163.9	206.7
27.5°	458.1	346.3	268.1	189.9	175.0	158.3	149.0	137.8	152.7	165.7	169.4
30°	480.4	299.8	227.2	154.6	137.8	121.0	126.6	130.3	130.3	130.3	149.0
32.5°	426.4	260.7	193.7	124.8	115.4	104.3	106.1	106.1	115.4	124.8	134.1
35°	361.2	204.8	158.3	109.9	100.6	91.2	95.0	98.7	108.0	117.3	130.3
37.5°	311.0	162.0	130.3	98.7	93.1	87.5	89.4	91.2	100.6	108.0	119.2
40°	262.5	135.9	115.4	95.0	89.4	83.8	85.7	85.7	93.1	100.6	108.0
42.5°	227.2	124.8	109.9	93.1	87.5	80.1	81.9	81.9	87.5	93.1	98.7
45°	195.5	119.2	106.1	91.2	85.7	78.2	78.2	76.3	81.9	85.7	89.4
47.5°	175.0	117.3	104.3	91.2	83.8	74.5	72.6	70.8	76.3	80.1	85.7
50°	163.9	117.3	104.3	89.4	80.1	70.8	68.9	67.0	74.5	80.1	89.4
52.5°	160.1	119.2	104.3	89.4	78.2	67.0	67.0	67.0	80.1	93.1	96.8
55°	160.1	122.9	106.1	87.5	76.3	65.2	68.9	72.6	76.3	80.1	80.1
57.5°	163.9	121.0	102.4	83.8	76.3	67.0	65.2	63.3	65.2	67.0	67.0
60°	180.6	117.3	98.7	80.1	70.8	61.4	59.6	57.7	61.4	63.3	63.3
62.5°	217.9	115.4	98.7	80.1	68.9	57.7	57.7	55.9	57.7	59.6	61.4
65°	266.3	128.5	104.3	80.1	68.9	57.7	54.0	50.3	54.0	55.9	55.9
67.5°	277.4	150.8	121.0	89.4	72.6	55.9	52.1	48.4	52.1	54.0	54.0
70°	251.4	165.7	130.3	95.0	76.3	55.9	52.1	46.6	48.4	50.3	48.4
72.5°	216.0	162.0	128.5	93.1	74.5	54.0	50.3	44.7	46.6	46.6	44.7
75°	184.3	139.7	109.9	78.2	63.3	46.6	42.8	39.1	41.0	41.0	41.0
77.5°	154.6	115.4	89.4	61.4	50.3	37.2	35.4	33.5	35.4	37.2	35.4
80°	121.0	87.5	67.0	44.7	37.2	27.9	29.8	29.8	31.7	31.7	31.7
82.5°	70.8	52.1	42.8	31.7	26.1	20.5	22.3	24.2	26.1	26.1	26.1
85°	42.8	33.5	27.9	22.3	18.6	13.0	16.8	18.6	18.6	18.6	16.8
87.5°	7.4	7.4	7.4	7.4	5.6	3.7	7.4	9.3	9.3	9.3	7.4
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°	1450.5	1450.5	1450.5	1450.5
2.5°	1212.2	1212.2	1210.3	1210.3
5°	1113.5	1109.8	1106.1	1109.8
7.5°	886.3	860.3	834.2	841.6
10°	888.2	886.3	884.5	882.6
12.5°	642.4	621.9	601.4	588.4
15°	545.6	540.0	532.5	532.5
17.5°	368.7	351.9	335.2	324.0
20°	314.7	324.0	331.4	335.2
22.5°	234.6	242.1	249.5	253.2
25°	247.7	266.3	283.0	284.9
27.5°	171.3	180.6	188.1	184.3
30°	167.6	173.2	178.8	178.8
32.5°	143.4	158.3	173.2	175.0
35°	143.4	150.8	158.3	160.1
37.5°	128.5	134.1	137.8	139.7
40°	115.4	119.2	121.0	121.0
42.5°	102.4	111.7	119.2	119.2
45°	91.2	115.4	139.7	147.1
47.5°	89.4	124.8	160.1	167.6
50°	96.8	130.3	162.0	165.7
52.5°	98.7	117.3	134.1	134.1
55°	78.2	87.5	95.0	93.1
57.5°	67.0	74.5	80.1	80.1
60°	63.3	72.6	80.1	81.9
62.5°	61.4	65.2	68.9	72.6
65°	55.9	55.9	55.9	55.9
67.5°	52.1	52.1	50.3	50.3
70°	46.6	46.6	46.6	46.6
72.5°	42.8	42.8	42.8	41.0
75°	39.1	39.1	37.2	37.2
77.5°	33.5	33.5	33.5	33.5
80°	29.8	29.8	27.9	27.9
82.5°	24.2	24.2	22.3	20.5
85°	14.9	14.9	13.0	11.2
87.5°	5.6	5.6	3.7	1.9
90°	0.0	0.0	0.0	0.0

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