

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: P559815

Luminaire Tested: **SDL-PA1-100-727-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-727-U-T2U
Description: Springdale
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8731.1 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Medium
BUG Rating: B3 - 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

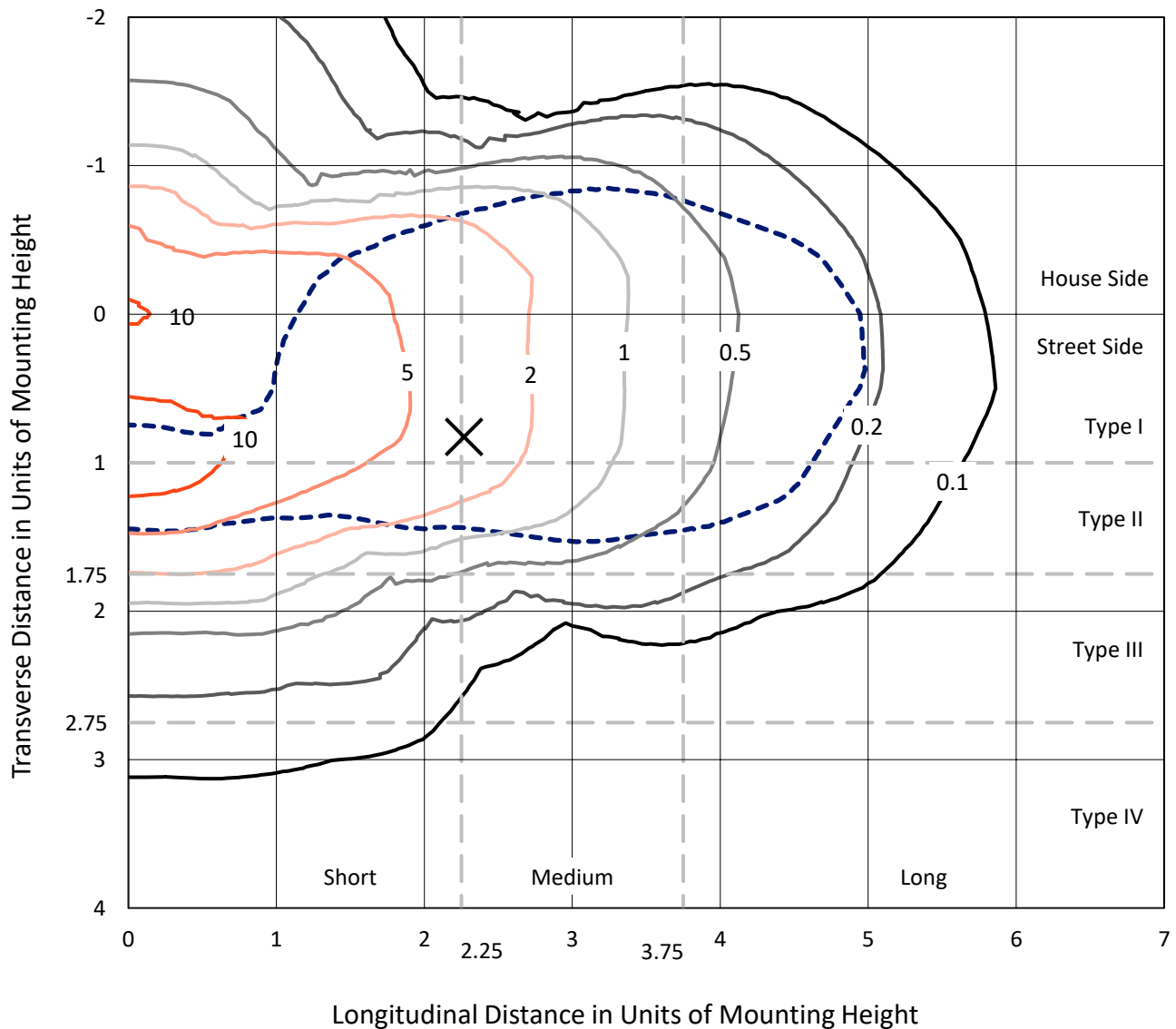


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

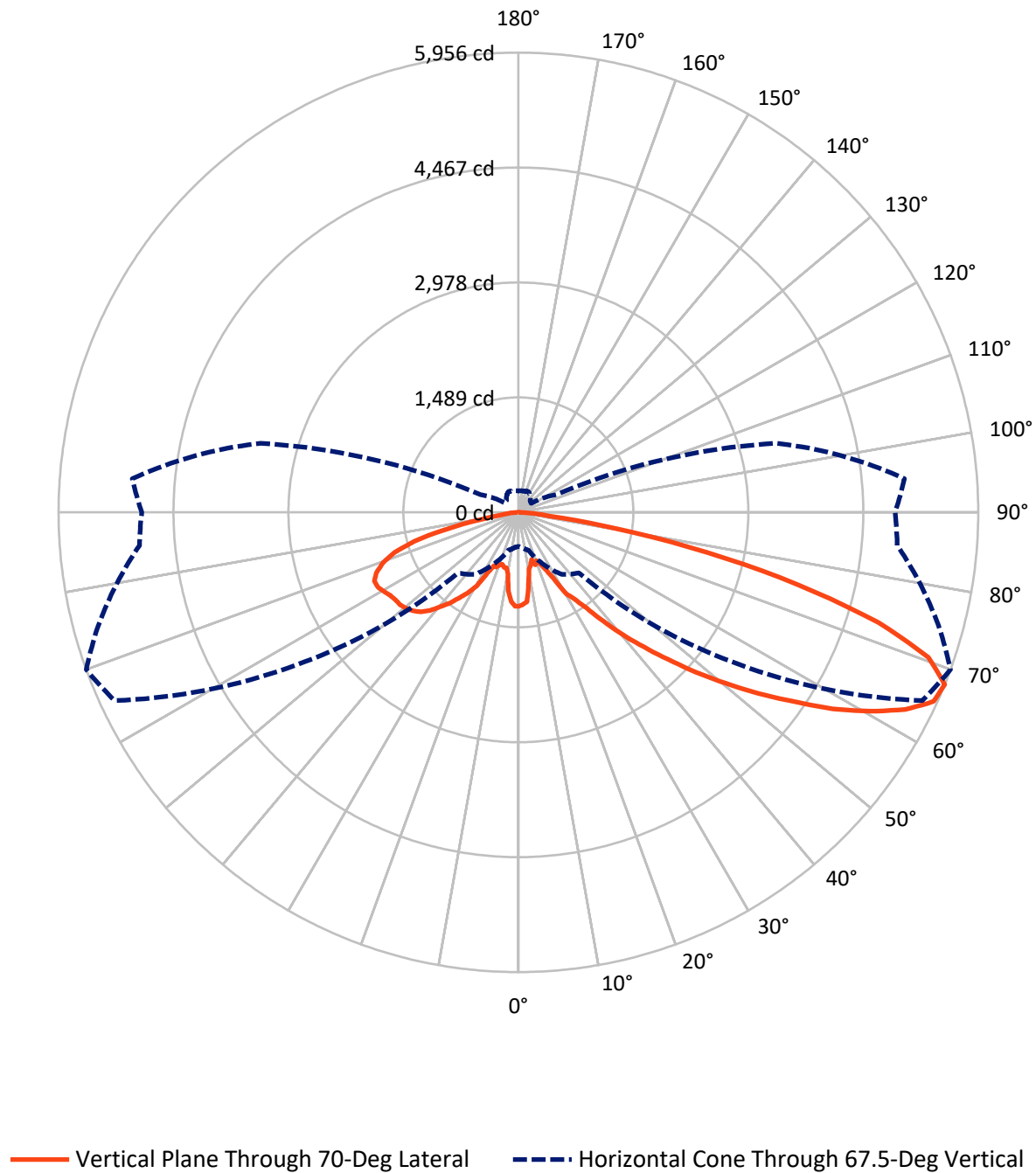


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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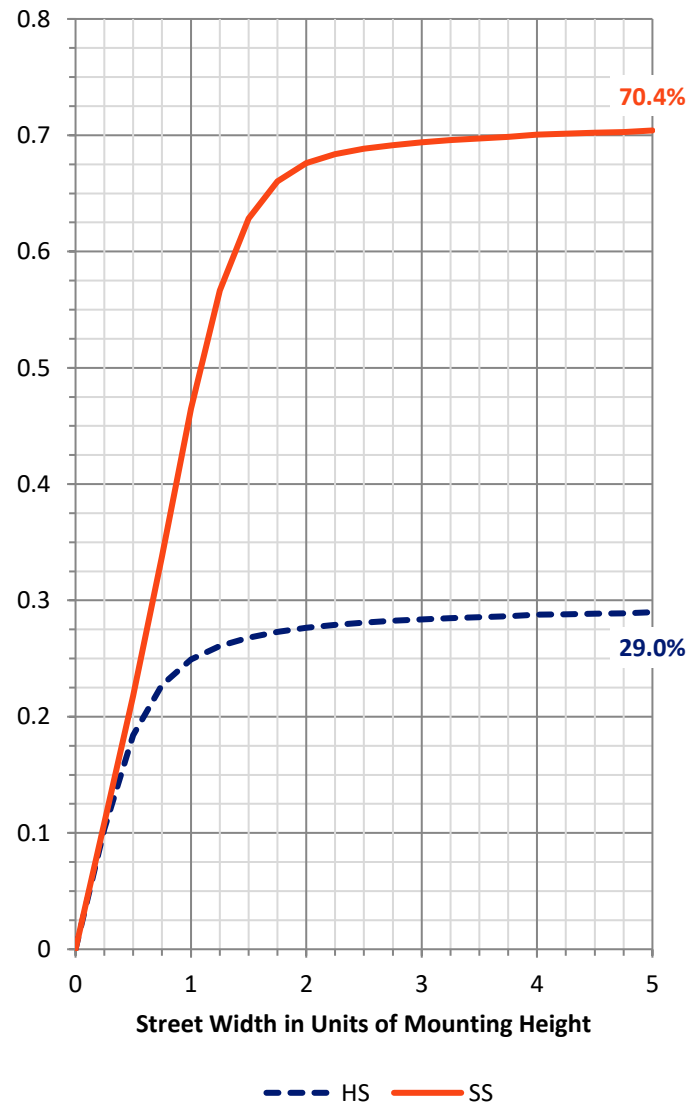
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2560.5	0.0	2560.5
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	6170.7	0.0	6170.7
	% Fixture	70.7	0.0	70.7
Total	Lumens	8731.1	0.0	8731.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	1.1
10°-20°	228.6	2.6
20°-30°	406.1	4.7
30°-40°	858.6	9.8
40°-50°	1571.7	18.0
50°-60°	2144.2	24.6
60°-70°	2021.4	23.2
70°-80°	1223.4	14.0
80°-90°	179.7	2.1
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°	8731.1	100.0
0°-180°	8731.1	100.0

Coefficient of Utilization



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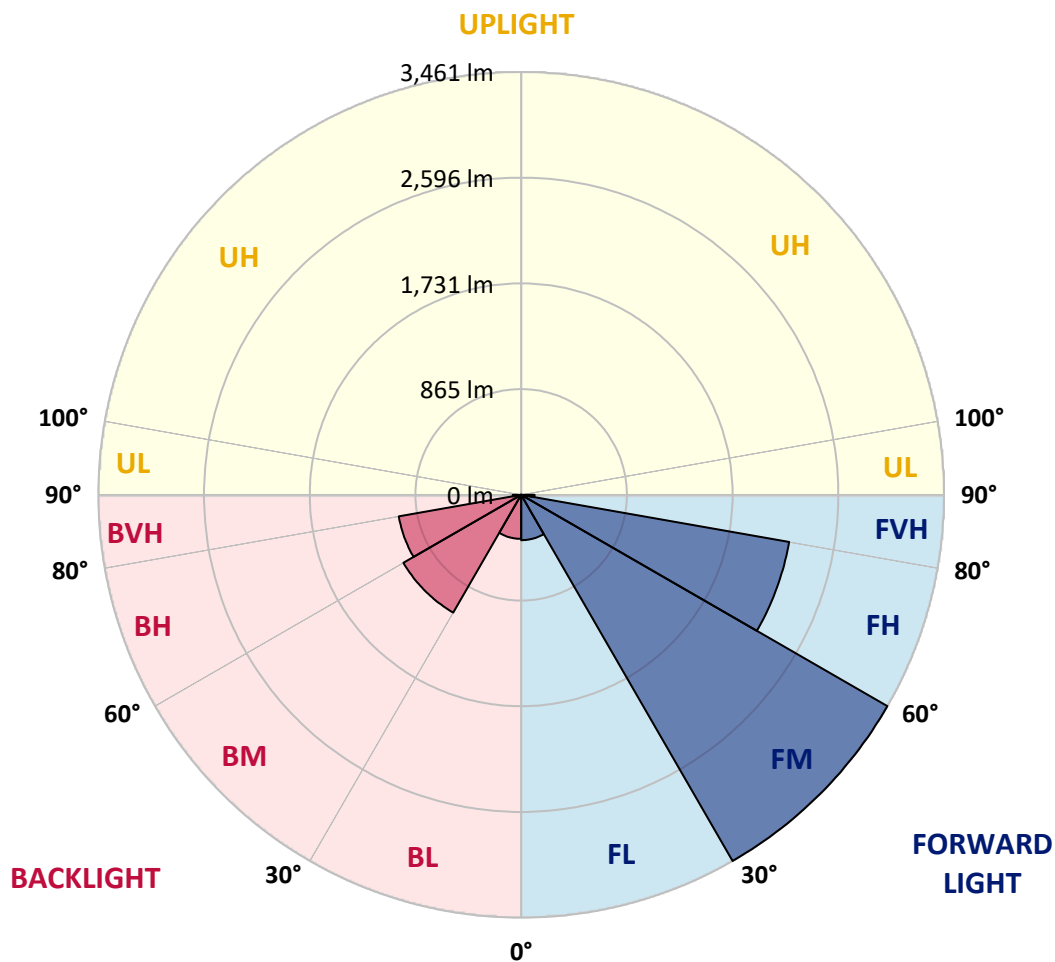
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.5	4.3			
FM	(30°-60°)	3461.4	39.6			
FH	(60°-80°)	2227.6	25.5			G2/5000
FVH	(80°-90°)	110.2	1.3			G2/225
BL	(0°-30°)	360.6	4.1	B1/500		
BM	(30°-60°)	1113.1	12.7	B2/2500		
BH	(60°-80°)	1017.2	11.7	B3/2500		G3/2500
BVH	(80°-90°)	69.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7
2.5°	1020.9	1030.4	1093.2	1156.0	1159.2	1159.2	1162.3	1165.4	1174.9	1181.1	1187.4
5°	951.8	958.1	958.1	958.1	961.3	964.4	967.5	967.5	973.8	977.0	983.2
7.5°	797.9	860.7	882.7	901.6	914.1	923.6	929.8	936.1	942.4	948.7	955.0
10°	907.8	907.8	911.0	911.0	911.0	907.8	845.0	779.1	810.5	841.9	794.8
12.5°	747.6	760.2	816.7	870.2	885.9	898.4	867.0	832.5	775.9	719.4	713.1
15°	889.0	889.0	889.0	885.9	829.3	769.6	709.9	647.1	684.8	722.5	666.0
17.5°	769.6	769.6	816.7	860.7	857.6	851.3	797.9	741.4	653.4	562.3	634.6
20°	970.7	967.5	951.8	933.0	816.7	700.5	725.6	750.8	757.1	760.2	738.2
22.5°	867.0	870.2	889.0	907.8	911.0	914.1	779.1	640.8	719.4	797.9	722.5
25°	1206.3	1200.0	1171.7	1140.3	1011.5	879.6	904.7	929.8	801.0	669.1	750.8
27.5°	1146.6	1127.7	1115.2	1102.6	1124.6	1146.6	1027.2	904.7	933.0	961.3	857.6
30°	1639.8	1639.8	1608.4	1573.8	1379.0	1181.1	1149.7	1118.3	1042.9	964.4	983.2
32.5°	2076.4	2076.4	1960.2	1840.8	1724.6	1608.4	1454.4	1300.5	1269.1	1234.5	1203.1
35°	2613.6	2597.9	2531.9	2462.8	2211.5	1960.2	1762.3	1564.4	1501.6	1438.7	1407.3
37.5°	3116.2	3081.7	2990.6	2896.3	2632.4	2365.4	2104.7	1844.0	1774.9	1705.7	1636.6
40°	3530.9	3512.0	3449.2	3383.2	3084.8	2786.4	2491.1	2192.7	2101.6	2010.5	1909.9
42.5°	3911.0	3895.3	3838.7	3779.0	3483.7	3185.3	2905.7	2623.0	2487.9	2352.9	2233.5
45°	4190.5	4165.4	4127.7	4086.9	3851.3	3612.5	3329.8	3044.0	2990.6	2937.2	2704.7
47.5°	4278.5	4234.5	4228.2	4222.0	4033.5	3845.0	3618.8	3392.6	3402.1	3411.5	3141.3
50°	4149.7	4083.7	4112.0	4140.3	4064.9	3986.4	3810.4	3634.5	3713.1	3788.5	3574.8
52.5°	3681.7	3665.9	3738.2	3807.3	3826.2	3845.0	3807.3	3766.5	3911.0	4055.5	3976.9
55°	3037.7	3106.8	3207.3	3307.8	3386.4	3461.8	3571.7	3681.7	3929.8	4178.0	4234.5
57.5°	2393.7	2466.0	2582.2	2698.4	2789.5	2880.6	3106.8	3333.0	3706.8	4080.6	4335.1
60°	1611.5	1686.9	1878.5	2067.0	2195.8	2324.6	2528.8	2733.0	3204.2	3675.4	4190.5
62.5°	1074.3	1049.2	1209.4	1366.5	1573.8	1781.1	1872.2	1960.2	2453.4	2943.4	3775.9
65°	659.7	662.8	725.6	785.3	1014.7	1240.8	1313.1	1382.2	1661.8	1941.3	3075.4
67.5°	442.9	452.4	480.6	508.9	618.8	728.8	854.4	980.1	1046.1	1108.9	2242.9
70°	392.7	395.8	408.4	420.9	452.4	483.8	600.0	716.2	678.5	637.7	1272.2
72.5°	345.5	348.7	370.7	389.5	405.2	420.9	490.0	559.2	515.2	471.2	634.6
75°	282.7	292.1	314.1	333.0	364.4	392.7	408.4	424.1	402.1	377.0	408.4
77.5°	232.5	238.7	254.4	270.2	301.6	329.8	345.5	361.3	326.7	292.1	311.0
80°	182.2	185.3	197.9	210.5	235.6	257.6	276.4	292.1	260.7	226.2	235.6
82.5°	109.9	113.1	131.9	147.6	169.6	188.5	201.0	210.5	219.9	226.2	197.9
85°	59.7	59.7	72.3	84.8	88.0	91.1	103.7	113.1	141.4	166.5	144.5
87.5°	9.4	9.4	12.6	12.6	18.8	22.0	25.1	25.1	28.3	28.3	31.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7
2.5°	1190.6	1193.7	1193.7	1193.7	1196.9	1200.0	1203.1	1203.1	1206.3	1209.4	1212.6
5°	989.5	1071.2	1149.7	1162.3	1171.7	1178.0	1184.3	1187.4	1193.7	1200.0	1203.1
7.5°	961.3	961.3	961.3	939.3	1020.9	1030.4	1039.8	1046.1	1052.3	1046.1	1036.6
10°	744.5	744.5	741.4	747.6	782.2	841.9	898.4	904.7	911.0	860.7	807.3
12.5°	703.7	713.1	722.5	706.8	644.0	697.4	750.8	760.2	763.3	719.4	672.2
15°	606.3	609.4	612.6	634.6	763.3	816.7	870.2	879.6	889.0	841.9	791.6
17.5°	703.7	681.7	656.5	716.2	666.0	700.5	731.9	656.5	725.6	713.1	700.5
20°	716.2	640.8	562.3	669.1	782.2	835.6	885.9	892.1	895.3	857.6	816.7
22.5°	647.1	719.4	791.6	719.4	675.4	669.1	662.8	659.7	662.8	684.8	703.7
25°	832.5	741.4	650.3	816.7	920.4	945.5	970.7	958.1	951.8	904.7	857.6
27.5°	753.9	826.2	895.3	964.4	995.8	1030.4	1061.8	1071.2	1020.9	970.7	920.4
30°	998.9	1042.9	1083.8	1225.1	1328.8	1360.2	1391.6	1360.2	1341.4	1278.5	1212.6
32.5°	1168.6	1256.5	1344.5	1341.4	1438.7	1463.9	1485.9	1445.0	1410.5	1341.4	1269.1
35°	1375.9	1432.5	1489.0	1520.4	1617.8	1627.2	1636.6	1583.2	1533.0	1451.3	1369.6
37.5°	1567.5	1639.8	1708.9	1787.4	1872.2	1853.4	1831.4	1765.4	1683.8	1620.9	1558.1
40°	1806.3	1894.2	1982.2	2082.7	2133.0	2104.7	2073.3	1972.8	1894.2	1828.3	1762.3
42.5°	2111.0	2205.2	2296.3	2384.3	2403.1	2371.7	2337.2	2227.2	2107.8	2041.9	1972.8
45°	2469.1	2544.5	2619.9	2711.0	2748.7	2692.1	2632.4	2494.2	2352.9	2258.6	2164.4
47.5°	2868.0	2902.6	2937.2	3094.2	3144.5	3050.2	2952.9	2802.1	2604.2	2481.7	2356.0
50°	3361.2	3351.8	3339.2	3477.5	3593.7	3436.6	3276.4	3100.5	2905.7	2733.0	2557.1
52.5°	3898.4	3807.3	3713.1	3898.4	3954.9	3766.5	3578.0	3389.5	3194.7	2971.7	2745.5
55°	4291.1	4240.8	4190.5	4322.5	4316.2	4096.3	3873.3	3650.2	3490.0	3191.6	2893.2
57.5°	4586.4	4630.3	4671.2	4803.1	4652.3	4401.0	4149.7	3926.7	3788.5	3414.6	3040.8
60°	4702.6	4928.8	5151.8	5230.3	5001.0	4718.3	4432.4	4212.5	4096.3	3644.0	3191.6
62.5°	4608.3	5107.8	5607.3	5623.0	5321.4	5004.2	4686.9	4507.8	4448.1	3892.1	3333.0
65°	4209.4	5032.4	5852.3	5908.9	5569.6	5236.6	4900.5	4768.6	4806.3	4124.6	3439.8
67.5°	3373.8	4573.8	5770.6	5956.0	5629.3	5277.5	4925.6	4878.5	5019.9	4237.7	3455.5
70°	1906.8	3515.2	5120.4	5635.6	5462.8	5114.1	4762.3	4784.3	4994.7	4174.8	3355.0
72.5°	794.8	2431.4	4068.0	4875.4	5026.1	4730.9	4432.4	4514.1	4658.6	3879.6	3097.4
75°	439.8	1551.8	2663.9	3738.2	4203.1	4124.6	4042.9	4134.0	4064.9	3311.0	2557.1
77.5°	326.7	838.7	1350.8	2503.6	3163.3	3342.4	3518.3	3562.3	3175.9	2418.8	1661.8
80°	245.0	399.0	549.7	1278.5	1696.3	2016.7	2337.2	2139.3	1869.1	1306.8	744.5
82.5°	169.6	229.3	289.0	411.5	659.7	760.2	857.6	816.7	612.6	430.4	245.0
85°	119.4	150.8	182.2	226.2	282.7	226.2	169.6	138.2	160.2	147.6	135.1
87.5°	31.4	31.4	28.3	31.4	22.0	18.8	15.7	12.6	12.6	12.6	12.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7	1215.7
2.5°	1215.7	1218.8	1218.8	1218.8	1218.8	1215.7	1200.0	1184.3	1146.6	1108.9	1096.3
5°	1162.3	1121.5	1090.0	1058.6	1058.6	1058.6	1064.9	1071.2	1074.3	1077.5	1080.6
7.5°	1036.6	1033.5	1046.1	1058.6	1068.1	1077.5	1083.8	1090.0	1077.5	1064.9	1036.6
10°	810.5	810.5	826.2	838.7	860.7	882.7	945.5	1008.4	1061.8	1115.2	1124.6
12.5°	735.1	794.8	760.2	722.5	801.0	879.6	948.7	1014.7	1068.1	1118.3	1077.5
15°	738.2	681.7	694.2	706.8	791.6	876.4	813.6	747.6	873.3	995.8	1024.1
17.5°	703.7	706.8	763.3	819.9	735.1	647.1	757.1	867.0	914.1	958.1	917.3
20°	722.5	625.1	691.1	757.1	816.7	873.3	816.7	757.1	772.8	788.5	895.3
22.5°	763.3	823.0	766.5	709.9	779.1	845.0	816.7	788.5	838.7	885.9	841.9
25°	760.2	659.7	753.9	848.2	785.3	719.4	753.9	788.5	763.3	735.1	816.7
27.5°	876.4	832.5	807.3	779.1	813.6	848.2	775.9	703.7	703.7	703.7	694.2
30°	1096.3	980.1	929.8	876.4	791.6	706.8	681.7	656.5	659.7	662.8	709.9
32.5°	1225.1	1181.1	1030.4	879.6	801.0	722.5	656.5	590.6	596.9	603.1	662.8
35°	1338.2	1303.7	1102.6	898.4	769.6	637.7	581.1	521.5	549.7	574.9	625.1
37.5°	1467.0	1372.8	1099.5	823.0	684.8	546.6	512.0	477.5	496.3	512.0	543.5
40°	1583.2	1401.0	1071.2	738.2	600.0	458.6	442.9	424.1	439.8	455.5	474.3
42.5°	1708.9	1441.9	1030.4	615.7	505.8	395.8	389.5	383.2	399.0	414.7	427.2
45°	1806.3	1448.2	977.0	502.6	430.4	358.1	358.1	355.0	370.7	383.2	389.5
47.5°	1869.1	1379.0	892.1	402.1	370.7	339.3	342.4	342.4	355.0	364.4	367.5
50°	1913.1	1266.0	810.5	355.0	339.3	323.6	323.6	323.6	336.1	345.5	351.8
52.5°	1944.5	1140.3	735.1	326.7	320.4	311.0	311.0	307.9	323.6	339.3	342.4
55°	1953.9	1011.5	659.7	304.7	298.4	292.1	298.4	301.6	320.4	336.1	339.3
57.5°	1975.9	911.0	596.9	282.7	279.6	276.4	285.9	295.3	314.1	333.0	333.0
60°	2019.9	845.0	552.9	260.7	260.7	260.7	276.4	289.0	307.9	326.7	323.6
62.5°	2060.7	785.3	512.0	238.7	241.9	245.0	263.9	282.7	301.6	320.4	317.3
65°	2067.0	691.1	455.5	219.9	226.2	229.3	251.3	273.3	292.1	311.0	304.7
67.5°	1997.9	540.3	370.7	201.0	210.5	216.8	241.9	263.9	282.7	298.4	292.1
70°	1872.2	386.4	285.9	185.3	194.8	201.0	226.2	248.2	263.9	279.6	273.3
72.5°	1686.9	276.4	223.0	169.6	175.9	182.2	204.2	226.2	245.0	260.7	254.4
75°	1391.6	223.0	188.5	153.9	160.2	163.3	185.3	204.2	223.0	238.7	229.3
77.5°	923.6	182.2	160.2	138.2	141.4	144.5	163.3	179.1	194.8	207.3	201.0
80°	446.1	147.6	135.1	119.4	122.5	122.5	138.2	153.9	166.5	175.9	172.8
82.5°	182.2	116.2	106.8	97.4	97.4	97.4	113.1	125.7	138.2	147.6	141.4
85°	113.1	91.1	84.8	75.4	72.3	69.1	75.4	81.7	88.0	91.1	88.0
87.5°	15.7	15.7	18.8	22.0	18.8	12.6	18.8	25.1	25.1	22.0	18.8
90°	0.0	0.0	9.4	9.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1215.7	1215.7	1215.7	1215.7
2.5°	1083.8	1083.8	1083.8	1090.0
5°	1080.6	1080.6	1080.6	1086.9
7.5°	1008.4	977.0	945.5	948.7
10°	1130.9	1134.0	1134.0	1137.2
12.5°	1033.5	983.2	933.0	939.3
15°	1052.3	1052.3	1049.2	1052.3
17.5°	876.4	860.7	845.0	845.0
20°	1002.1	1002.1	1002.1	1002.1
22.5°	797.9	794.8	791.6	794.8
25°	898.4	901.6	901.6	898.4
27.5°	684.8	725.6	763.3	766.5
30°	753.9	753.9	753.9	753.9
32.5°	722.5	753.9	785.3	788.5
35°	672.2	669.1	666.0	675.4
37.5°	571.7	565.4	559.2	559.2
40°	493.2	480.6	468.1	468.1
42.5°	436.6	427.2	414.7	411.5
45°	395.8	386.4	373.8	373.8
47.5°	367.5	361.3	355.0	351.8
50°	355.0	348.7	342.4	342.4
52.5°	345.5	342.4	336.1	336.1
55°	339.3	336.1	329.8	329.8
57.5°	333.0	329.8	323.6	323.6
60°	320.4	317.3	314.1	314.1
62.5°	311.0	307.9	304.7	304.7
65°	298.4	298.4	295.3	292.1
67.5°	282.7	282.7	282.7	276.4
70°	263.9	263.9	263.9	257.6
72.5°	245.0	245.0	241.9	232.5
75°	219.9	216.8	213.6	207.3
77.5°	194.8	188.5	182.2	179.1
80°	166.5	160.2	153.9	147.6
82.5°	131.9	128.8	122.5	106.8
85°	81.7	72.3	59.7	53.4
87.5°	15.7	12.6	9.4	3.1
90°	0.0	0.0	0.0	0.0

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