

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: P561355

Luminaire Tested: **SDL-PA1-90-830-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561355
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-PA1-90-830-U-T2U
Description: Springdale
(1) 80 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8220.6 lumens
Efficiency: N/A
Efficacy: 89.0 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: B2 - U0 - G2

Input Watts (W): 92.4
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



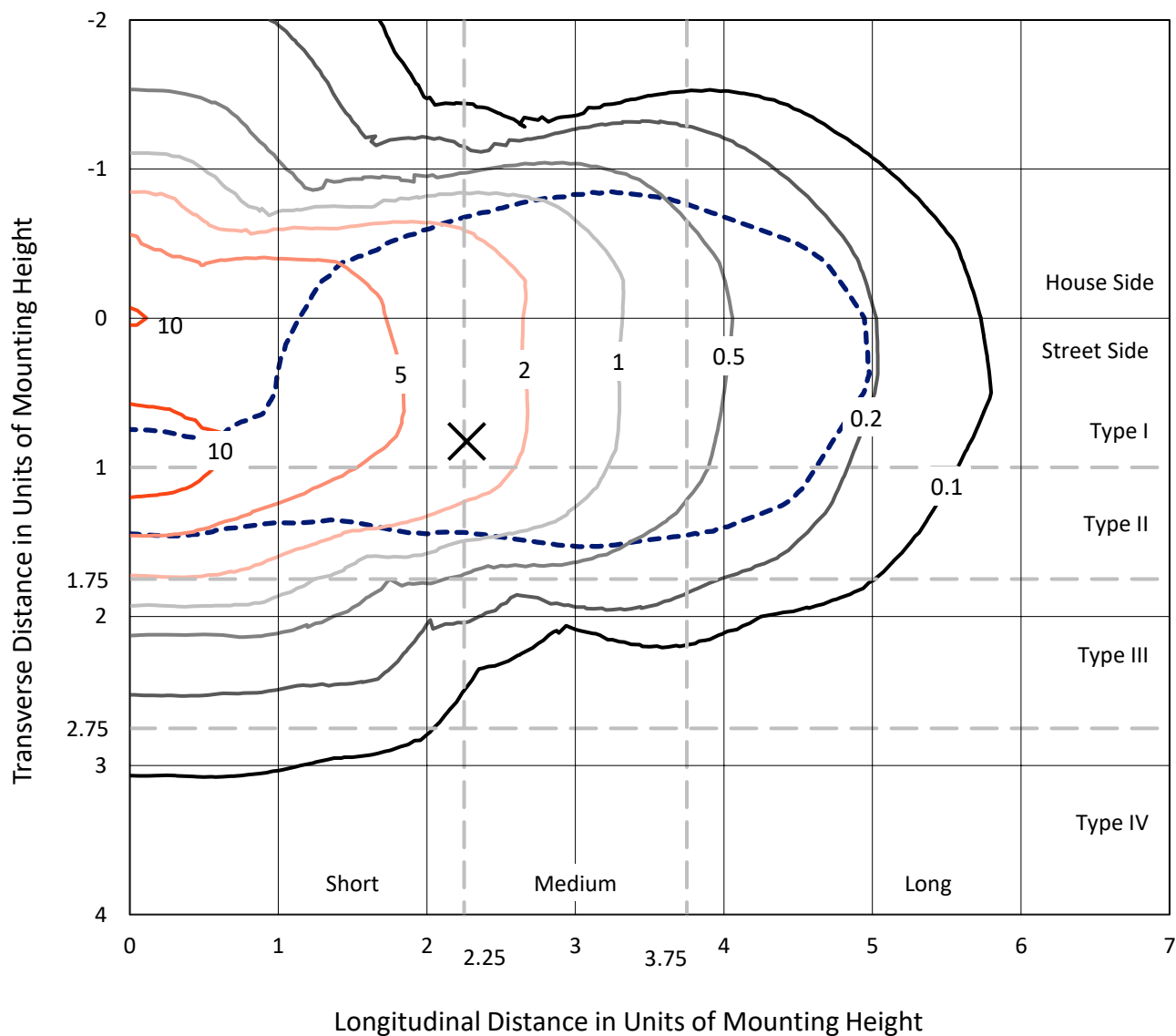
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

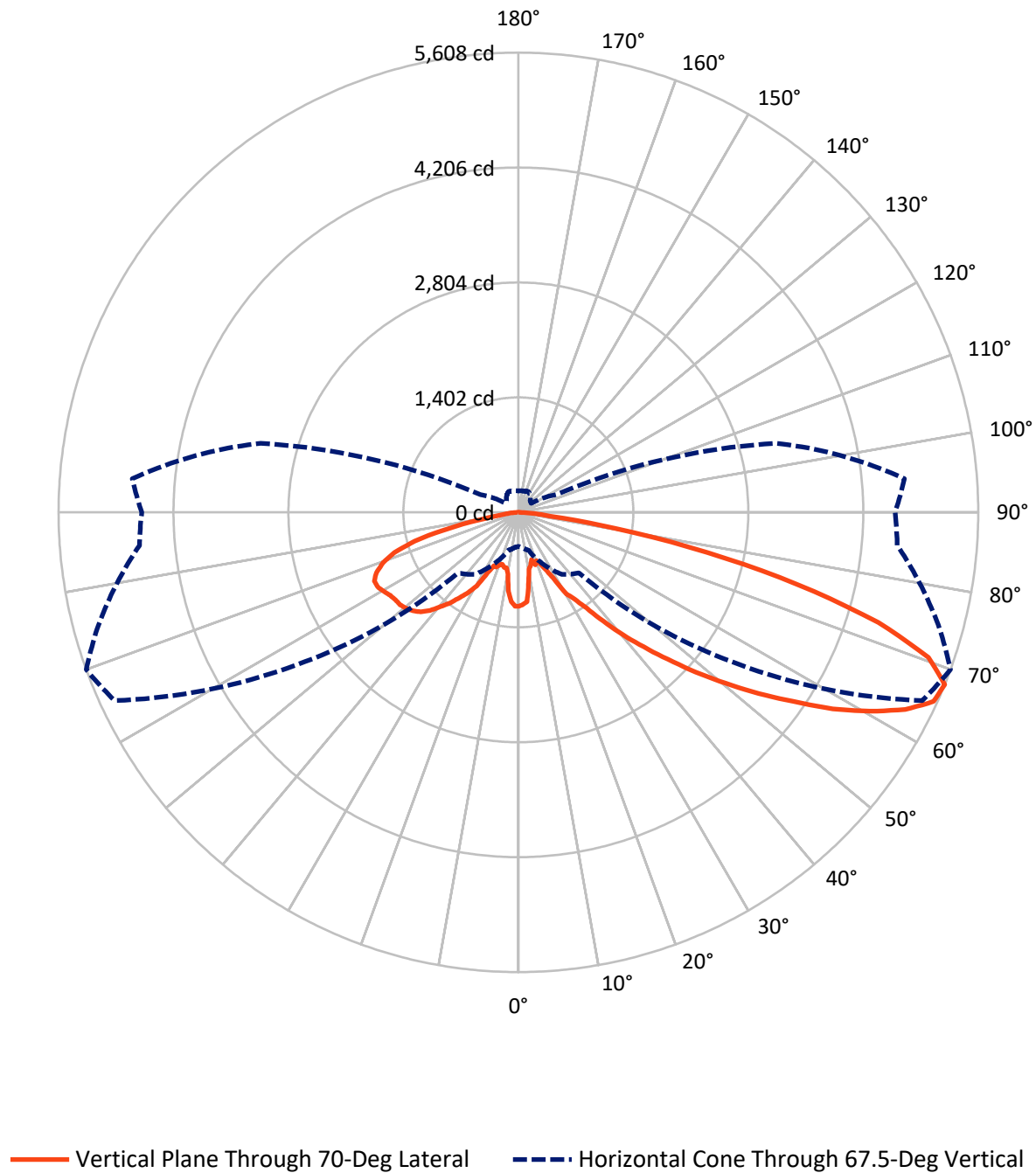


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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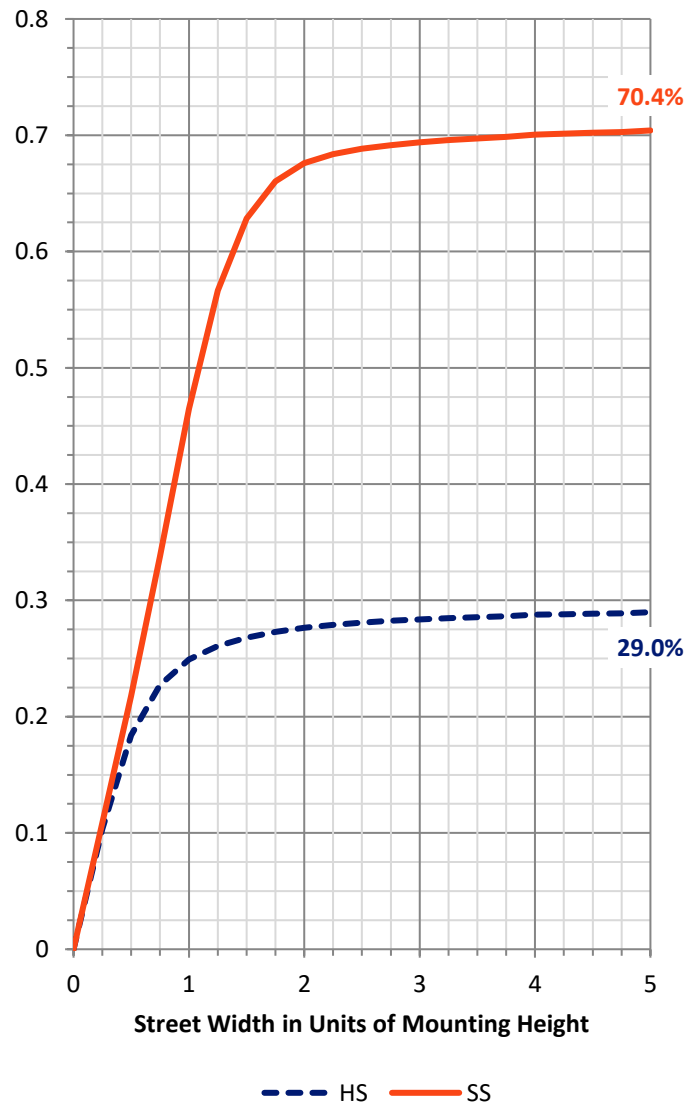
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2410.7	0.0	2410.7
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	5809.9	0.0	5809.9
	% Fixture	70.7	0.0	70.7
Total	Lumens	8220.6	0.0	8220.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.1
10°-20°	215.2	2.6
20°-30°	382.4	4.7
30°-40°	808.4	9.8
40°-50°	1479.8	18.0
50°-60°	2018.8	24.6
60°-70°	1903.2	23.2
70°-80°	1151.9	14.0
80°-90°	169.2	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°	8220.6	100.0
0°-180°	8220.6	100.0

Coefficient of Utilization



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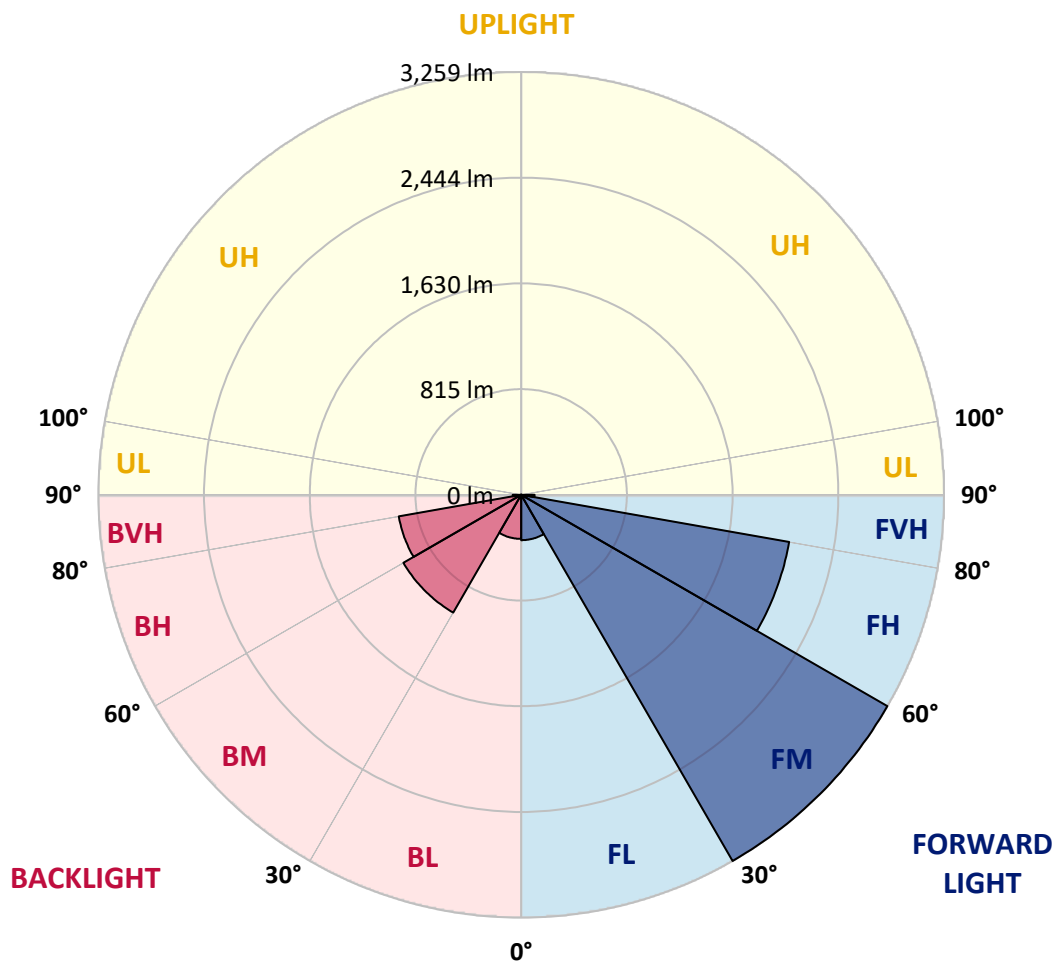
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.8	4.3			
FM	(30°-60°)	3259.0	39.6			
FH	(60°-80°)	2097.3	25.5			G2/5000
FVH	(80°-90°)	103.8	1.3			G2/225
BL	(0°-30°)	339.6	4.1	B1/500		
BM	(30°-60°)	1048.0	12.7	B2/2500		
BH	(60°-80°)	957.8	11.7	B2/1000		G2/1000
BVH	(80°-90°)	65.5	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	961.2	970.1	1029.3	1088.4	1091.4	1091.4	1094.3	1097.3	1106.2	1112.1	1118.0
5°	896.2	902.1	902.1	902.1	905.0	908.0	911.0	911.0	916.9	919.8	925.8
7.5°	751.2	810.4	831.1	848.9	860.7	869.6	875.5	881.4	887.3	893.2	899.1
10°	854.8	854.8	857.7	857.7	857.7	854.8	795.6	733.5	763.1	792.7	748.3
12.5°	703.9	715.8	769.0	819.3	834.1	845.9	816.3	783.8	730.5	677.3	671.4
15°	837.0	837.0	837.0	834.1	780.8	724.6	668.4	609.3	644.8	680.3	627.0
17.5°	724.6	724.6	769.0	810.4	807.4	801.5	751.2	698.0	615.2	529.4	597.5
20°	913.9	911.0	896.2	878.4	769.0	659.6	683.2	706.9	712.8	715.8	695.1
22.5°	816.3	819.3	837.0	854.8	857.7	860.7	733.5	603.4	677.3	751.2	680.3
25°	1135.7	1129.8	1103.2	1073.6	952.4	828.1	851.8	875.5	754.2	630.0	706.9
27.5°	1079.6	1061.8	1050.0	1038.1	1058.8	1079.6	967.2	851.8	878.4	905.0	807.4
30°	1543.9	1543.9	1514.3	1481.8	1298.4	1112.1	1082.5	1052.9	981.9	908.0	925.8
32.5°	1955.0	1955.0	1845.6	1733.2	1623.8	1514.3	1369.4	1224.5	1194.9	1162.4	1132.8
35°	2460.8	2446.0	2383.9	2318.8	2082.2	1845.6	1659.3	1472.9	1413.8	1354.6	1325.0
37.5°	2934.0	2901.5	2815.7	2727.0	2478.5	2227.1	1981.6	1736.2	1671.1	1606.0	1540.9
40°	3324.4	3306.7	3247.5	3185.4	2904.4	2623.5	2345.4	2064.5	1978.7	1892.9	1798.3
42.5°	3682.3	3667.5	3614.3	3558.1	3280.1	2999.1	2735.8	2469.7	2342.5	2215.3	2102.9
45°	3945.5	3921.9	3886.4	3847.9	3626.1	3401.3	3135.1	2866.0	2815.7	2765.4	2546.6
47.5°	4028.4	3986.9	3981.0	3975.1	3797.7	3620.2	3407.2	3194.3	3203.2	3212.0	2957.7
50°	3907.1	3845.0	3871.6	3898.2	3827.2	3753.3	3587.7	3422.0	3496.0	3567.0	3365.8
52.5°	3466.4	3451.6	3519.6	3584.7	3602.4	3620.2	3584.7	3546.3	3682.3	3818.4	3744.4
55°	2860.1	2925.1	3019.8	3114.4	3188.4	3259.4	3362.9	3466.4	3700.1	3933.7	3986.9
57.5°	2253.7	2321.8	2431.2	2540.6	2626.4	2712.2	2925.1	3138.1	3490.1	3842.0	4081.6
60°	1517.3	1588.3	1768.7	1946.2	2067.4	2188.7	2380.9	2573.2	3016.8	3460.5	3945.5
62.5°	1011.5	987.9	1138.7	1286.6	1481.8	1677.0	1762.8	1845.6	2309.9	2771.3	3555.1
65°	621.1	624.1	683.2	739.4	955.3	1168.3	1236.3	1301.4	1564.6	1827.8	2895.6
67.5°	417.0	425.9	452.5	479.1	582.7	686.2	804.5	922.8	984.9	1044.1	2111.8
70°	369.7	372.7	384.5	396.3	425.9	455.5	564.9	674.4	638.9	600.4	1197.9
72.5°	325.3	328.3	349.0	366.8	381.5	396.3	461.4	526.5	485.1	443.7	597.5
75°	266.2	275.1	295.8	313.5	343.1	369.7	384.5	399.3	378.6	354.9	384.5
77.5°	218.9	224.8	239.6	254.4	283.9	310.6	325.3	340.1	307.6	275.1	292.8
80°	171.5	174.5	186.3	198.2	221.8	242.5	260.3	275.1	245.5	213.0	221.8
82.5°	103.5	106.5	124.2	139.0	159.7	177.5	189.3	198.2	207.0	213.0	186.3
85°	56.2	56.2	68.0	79.9	82.8	85.8	97.6	106.5	133.1	156.8	136.1
87.5°	8.9	8.9	11.8	11.8	17.7	20.7	23.7	23.7	26.6	26.6	29.6
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°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1121.0	1123.9	1123.9	1123.9	1126.9	1129.8	1132.8	1132.8	1135.7	1138.7	1141.7
5°	931.7	1008.6	1082.5	1094.3	1103.2	1109.1	1115.0	1118.0	1123.9	1129.8	1132.8
7.5°	905.0	905.0	905.0	884.3	961.2	970.1	979.0	984.9	990.8	984.9	976.0
10°	701.0	701.0	698.0	703.9	736.5	792.7	845.9	851.8	857.7	810.4	760.1
12.5°	662.5	671.4	680.3	665.5	606.3	656.6	706.9	715.8	718.7	677.3	632.9
15°	570.8	573.8	576.7	597.5	718.7	769.0	819.3	828.1	837.0	792.7	745.3
17.5°	662.5	641.8	618.2	674.4	627.0	659.6	689.1	618.2	683.2	671.4	659.6
20°	674.4	603.4	529.4	630.0	736.5	786.7	834.1	840.0	842.9	807.4	769.0
22.5°	609.3	677.3	745.3	677.3	635.9	630.0	624.1	621.1	624.1	644.8	662.5
25°	783.8	698.0	612.2	769.0	866.6	890.3	913.9	902.1	896.2	851.8	807.4
27.5°	709.8	777.9	842.9	908.0	937.6	970.1	999.7	1008.6	961.2	913.9	866.6
30°	940.5	981.9	1020.4	1153.5	1251.1	1280.7	1310.3	1280.7	1262.9	1203.8	1141.7
32.5°	1100.3	1183.1	1265.9	1262.9	1354.6	1378.3	1399.0	1360.5	1328.0	1262.9	1194.9
35°	1295.5	1348.7	1401.9	1431.5	1523.2	1532.1	1540.9	1490.7	1443.3	1366.4	1289.5
37.5°	1475.9	1543.9	1609.0	1682.9	1762.8	1745.0	1724.3	1662.2	1585.3	1526.2	1467.0
40°	1700.7	1783.5	1866.3	1960.9	2008.3	1981.6	1952.1	1857.4	1783.5	1721.4	1659.3
42.5°	1987.6	2076.3	2162.1	2244.9	2262.6	2233.0	2200.5	2097.0	1984.6	1922.5	1857.4
45°	2324.7	2395.7	2466.7	2552.5	2588.0	2534.7	2478.5	2348.4	2215.3	2126.6	2037.8
47.5°	2700.4	2732.9	2765.4	2913.3	2960.6	2871.9	2780.2	2638.2	2451.9	2336.6	2218.3
50°	3164.7	3155.8	3144.0	3274.1	3383.6	3235.7	3084.9	2919.2	2735.8	2573.2	2407.5
52.5°	3670.5	3584.7	3496.0	3670.5	3723.7	3546.3	3368.8	3191.3	3008.0	2798.0	2585.0
55°	4040.2	3992.9	3945.5	4069.8	4063.8	3856.8	3646.8	3436.8	3286.0	3005.0	2724.0
57.5°	4318.2	4359.6	4398.1	4522.3	4380.3	4143.7	3907.1	3697.1	3567.0	3215.0	2863.0
60°	4427.6	4640.6	4850.6	4924.5	4708.6	4442.4	4173.3	3966.2	3856.8	3430.9	3005.0
62.5°	4338.9	4809.2	5279.5	5294.2	5010.3	4711.6	4412.9	4244.3	4188.1	3664.6	3138.1
65°	3963.3	4738.2	5510.1	5563.4	5244.0	4930.4	4614.0	4489.8	4525.2	3883.4	3238.7
67.5°	3176.5	4306.4	5433.3	5607.8	5300.2	4968.9	4637.6	4593.3	4726.4	3989.9	3253.4
70°	1795.3	3309.6	4821.0	5306.1	5143.4	4815.1	4483.8	4504.5	4702.7	3930.8	3158.8
72.5°	748.3	2289.2	3830.2	4590.3	4732.3	4454.3	4173.3	4250.2	4386.2	3652.7	2916.3
75°	414.1	1461.1	2508.1	3519.6	3957.4	3883.4	3806.5	3892.3	3827.2	3117.4	2407.5
77.5°	307.6	789.7	1271.8	2357.3	2978.4	3147.0	3312.6	3354.0	2990.2	2277.4	1564.6
80°	230.7	375.6	517.6	1203.8	1597.1	1898.8	2200.5	2014.2	1759.8	1230.4	701.0
82.5°	159.7	215.9	272.1	387.5	621.1	715.8	807.4	769.0	576.7	405.2	230.7
85°	112.4	142.0	171.5	213.0	266.2	213.0	159.7	130.1	150.8	139.0	127.2
87.5°	29.6	29.6	26.6	29.6	20.7	17.7	14.8	11.8	11.8	11.8	11.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1144.6	1147.6	1147.6	1147.6	1147.6	1144.6	1129.8	1115.0	1079.6	1044.1	1032.2
5°	1094.3	1055.9	1026.3	996.7	996.7	996.7	1002.7	1008.6	1011.5	1014.5	1017.4
7.5°	976.0	973.1	984.9	996.7	1005.6	1014.5	1020.4	1026.3	1014.5	1002.7	976.0
10°	763.1	763.1	777.9	789.7	810.4	831.1	890.3	949.4	999.7	1050.0	1058.8
12.5°	692.1	748.3	715.8	680.3	754.2	828.1	893.2	955.3	1005.6	1052.9	1014.5
15°	695.1	641.8	653.6	665.5	745.3	825.2	766.0	703.9	822.2	937.6	964.2
17.5°	662.5	665.5	718.7	772.0	692.1	609.3	712.8	816.3	860.7	902.1	863.6
20°	680.3	588.6	650.7	712.8	769.0	822.2	769.0	712.8	727.6	742.4	842.9
22.5°	718.7	774.9	721.7	668.4	733.5	795.6	769.0	742.4	789.7	834.1	792.7
25°	715.8	621.1	709.8	798.6	739.4	677.3	709.8	742.4	718.7	692.1	769.0
27.5°	825.2	783.8	760.1	733.5	766.0	798.6	730.5	662.5	662.5	662.5	653.6
30°	1032.2	922.8	875.5	825.2	745.3	665.5	641.8	618.2	621.1	624.1	668.4
32.5°	1153.5	1112.1	970.1	828.1	754.2	680.3	618.2	556.0	562.0	567.9	624.1
35°	1260.0	1227.4	1038.1	845.9	724.6	600.4	547.2	491.0	517.6	541.3	588.6
37.5°	1381.2	1292.5	1035.2	774.9	644.8	514.6	482.1	449.6	467.3	482.1	511.7
40°	1490.7	1319.1	1008.6	695.1	564.9	431.8	417.0	399.3	414.1	428.9	446.6
42.5°	1609.0	1357.6	970.1	579.7	476.2	372.7	366.8	360.8	375.6	390.4	402.2
45°	1700.7	1363.5	919.8	473.2	405.2	337.2	337.2	334.2	349.0	360.8	366.8
47.5°	1759.8	1298.4	840.0	378.6	349.0	319.4	322.4	322.4	334.2	343.1	346.0
50°	1801.2	1191.9	763.1	334.2	319.4	304.6	304.6	304.6	316.5	325.3	331.3
52.5°	1830.8	1073.6	692.1	307.6	301.7	292.8	292.8	289.9	304.6	319.4	322.4
55°	1839.7	952.4	621.1	286.9	281.0	275.1	281.0	283.9	301.7	316.5	319.4
57.5°	1860.4	857.7	562.0	266.2	263.2	260.3	269.1	278.0	295.8	313.5	313.5
60°	1901.8	795.6	520.6	245.5	245.5	245.5	260.3	272.1	289.9	307.6	304.6
62.5°	1940.2	739.4	482.1	224.8	227.7	230.7	248.4	266.2	283.9	301.7	298.7
65°	1946.2	650.7	428.9	207.0	213.0	215.9	236.6	257.3	275.1	292.8	286.9
67.5°	1881.1	508.7	349.0	189.3	198.2	204.1	227.7	248.4	266.2	281.0	275.1
70°	1762.8	363.8	269.1	174.5	183.4	189.3	213.0	233.7	248.4	263.2	257.3
72.5°	1588.3	260.3	210.0	159.7	165.6	171.5	192.2	213.0	230.7	245.5	239.6
75°	1310.3	210.0	177.5	144.9	150.8	153.8	174.5	192.2	210.0	224.8	215.9
77.5°	869.6	171.5	150.8	130.1	133.1	136.1	153.8	168.6	183.4	195.2	189.3
80°	420.0	139.0	127.2	112.4	115.3	115.3	130.1	144.9	156.8	165.6	162.7
82.5°	171.5	109.4	100.6	91.7	91.7	91.7	106.5	118.3	130.1	139.0	133.1
85°	106.5	85.8	79.9	71.0	68.0	65.1	71.0	76.9	82.8	85.8	82.8
87.5°	14.8	14.8	17.7	20.7	17.7	11.8	17.7	23.7	23.7	20.7	17.7
90°	0.0	0.0	8.9	8.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1144.6	1144.6	1144.6	1144.6
2.5°	1020.4	1020.4	1020.4	1026.3
5°	1017.4	1017.4	1017.4	1023.4
7.5°	949.4	919.8	890.3	893.2
10°	1064.8	1067.7	1067.7	1070.7
12.5°	973.1	925.8	878.4	884.3
15°	990.8	990.8	987.9	990.8
17.5°	825.2	810.4	795.6	795.6
20°	943.5	943.5	943.5	943.5
22.5°	751.2	748.3	745.3	748.3
25°	845.9	848.9	848.9	845.9
27.5°	644.8	683.2	718.7	721.7
30°	709.8	709.8	709.8	709.8
32.5°	680.3	709.8	739.4	742.4
35°	632.9	630.0	627.0	635.9
37.5°	538.3	532.4	526.5	526.5
40°	464.4	452.5	440.7	440.7
42.5°	411.1	402.2	390.4	387.5
45°	372.7	363.8	352.0	352.0
47.5°	346.0	340.1	334.2	331.3
50°	334.2	328.3	322.4	322.4
52.5°	325.3	322.4	316.5	316.5
55°	319.4	316.5	310.6	310.6
57.5°	313.5	310.6	304.6	304.6
60°	301.7	298.7	295.8	295.8
62.5°	292.8	289.9	286.9	286.9
65°	281.0	281.0	278.0	275.1
67.5°	266.2	266.2	266.2	260.3
70°	248.4	248.4	248.4	242.5
72.5°	230.7	230.7	227.7	218.9
75°	207.0	204.1	201.1	195.2
77.5°	183.4	177.5	171.5	168.6
80°	156.8	150.8	144.9	139.0
82.5°	124.2	121.3	115.3	100.6
85°	76.9	68.0	56.2	50.3
87.5°	14.8	11.8	8.9	3.0
90°	0.0	0.0	0.0	0.0

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