

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: P561237

Luminaire Tested: **SDL-PA1-90-730-U-SL3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561237
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-PA1-90-730-U-SL3
Description: Springdale
(1) 70 CRI, 3000K, 1180mA 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: 9262.6 lumens
Efficiency: N/A
Efficacy: 100.2 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: B2 - U0 - G3

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



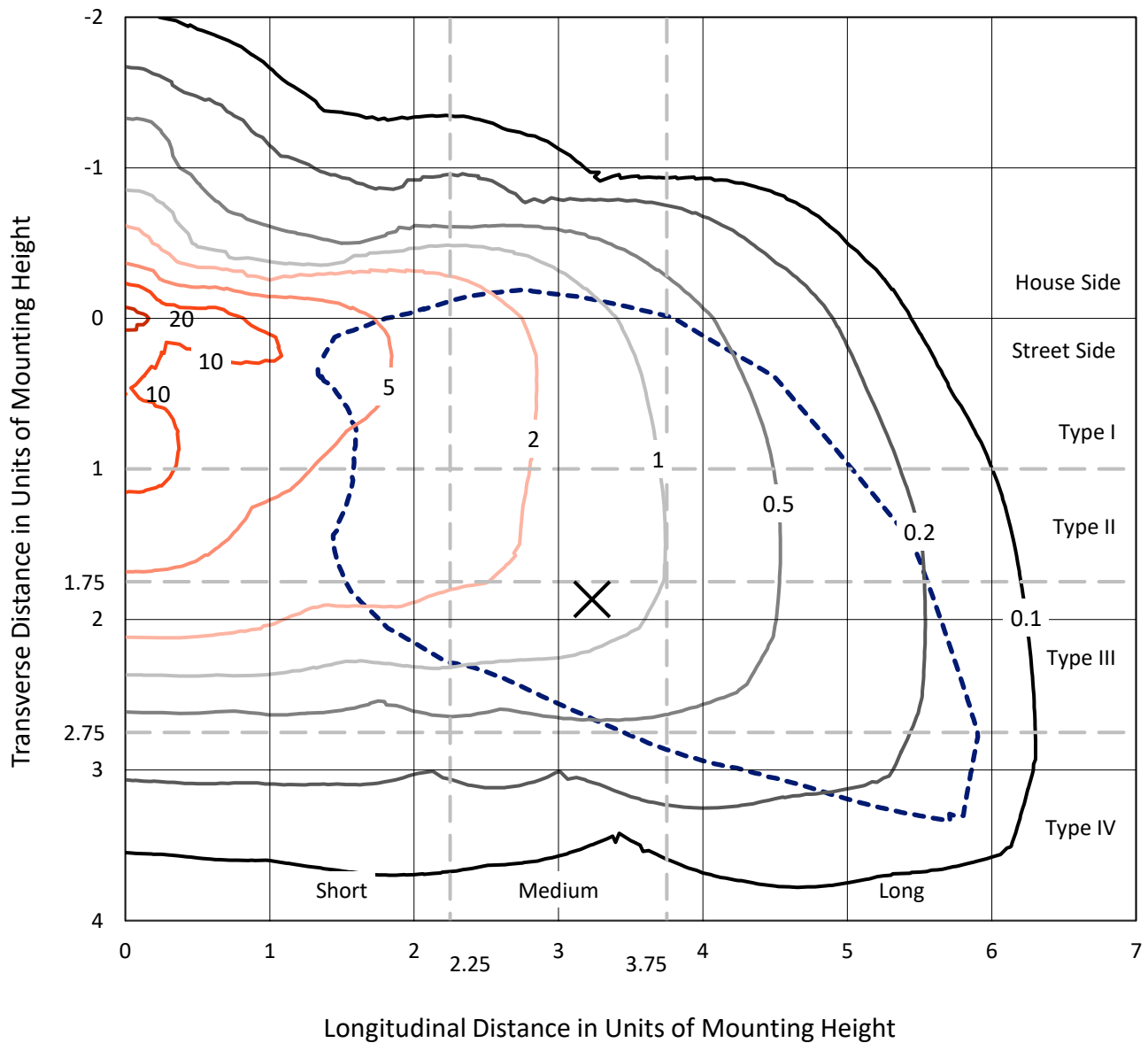
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

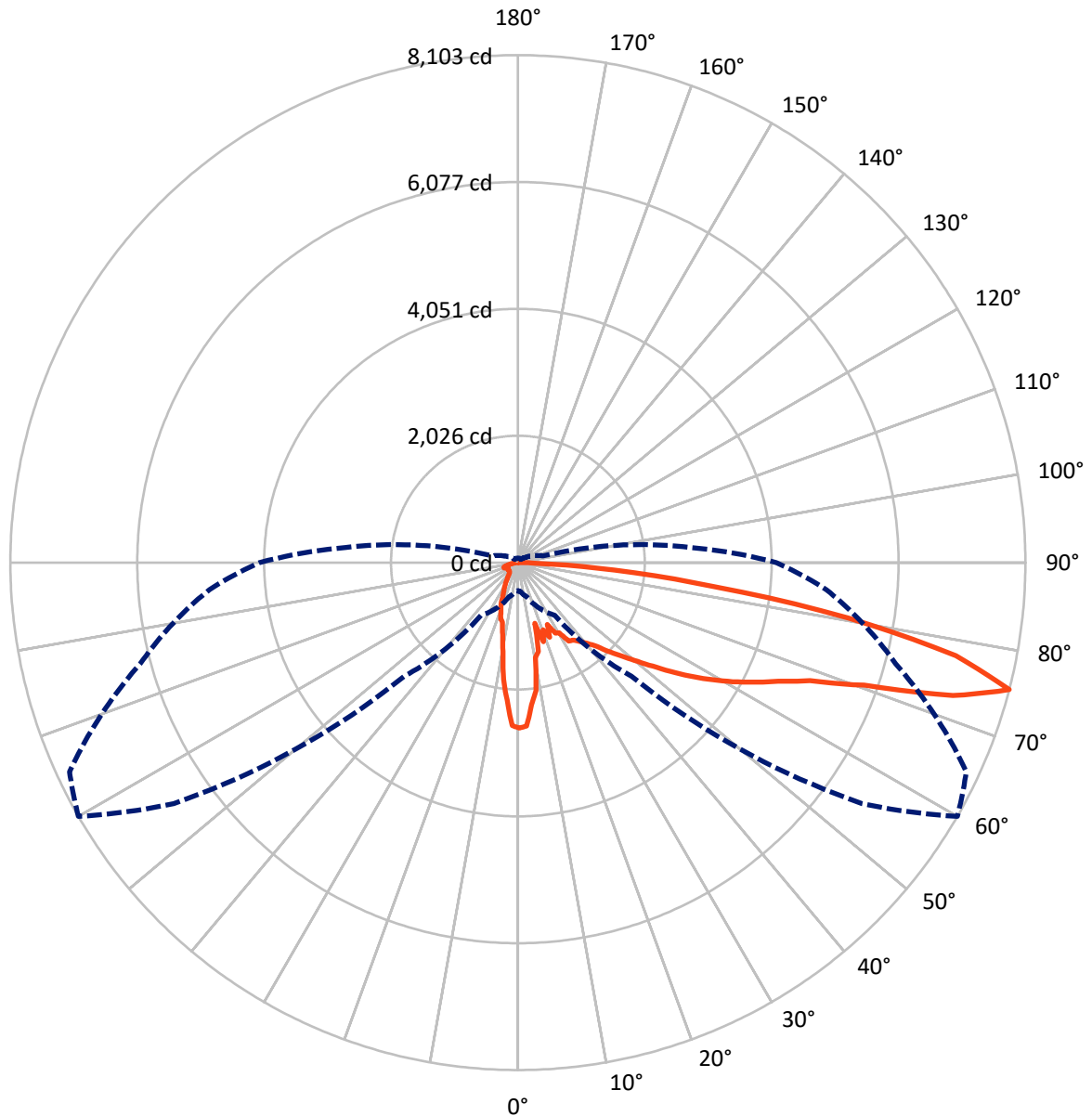


Based on 10 foot mounting height. Maximum calculated value = 26.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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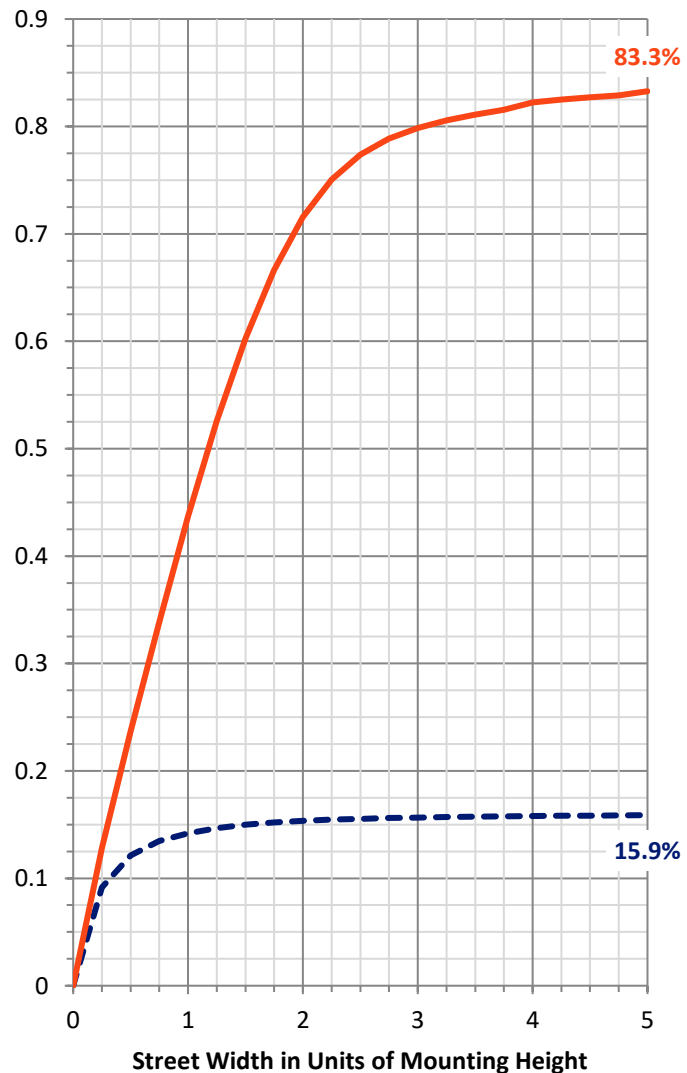
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.8	0.0	1488.8
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	7773.8	0.0	7773.8
	% Fixture	83.9	0.0	83.9
Total	Lumens	9262.6	0.0	9262.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	2.1
10°-20°	347.7	3.8
20°-30°	455.5	4.9
30°-40°	751.7	8.1
40°-50°	1173.9	12.7
50°-60°	1787.1	19.3
60°-70°	2214.3	23.9
70°-80°	1956.2	21.1
80°-90°	383.5	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°	9262.6	100.0
0°-180°	9262.6	100.0



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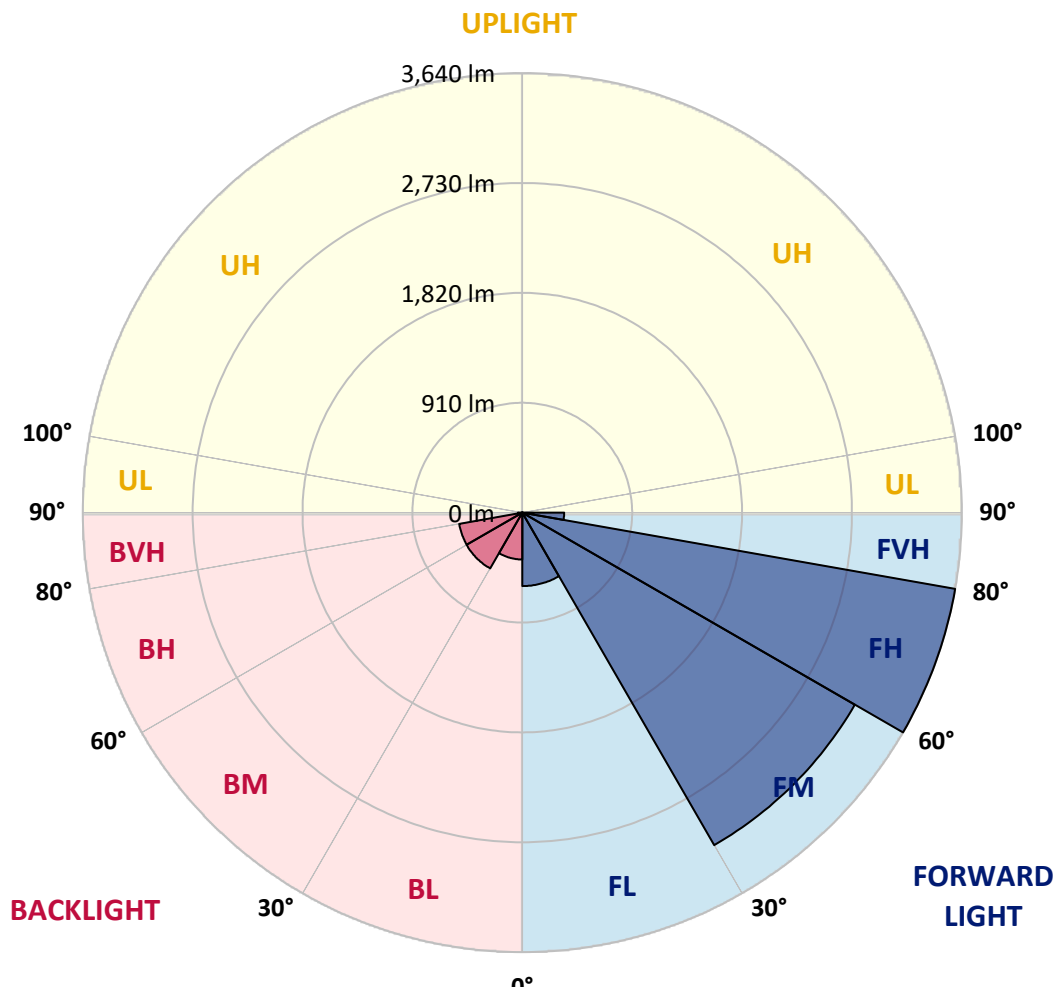
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.1	6.6			
FM	(30°-60°)	3179.2	34.3			
FH	(60°-80°)	3639.5	39.3			G2/5000
FVH	(80°-90°)	346.9	3.7			G3/500
BL	(0°-30°)	387.9	4.2	B1/500		
BM	(30°-60°)	533.4	5.8	B1/1000		
BH	(60°-80°)	530.9	5.7	B2/1000		G2/1000
BVH	(80°-90°)	36.6	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1
2.5°	2194.4	2442.0	2384.3	2326.6	2414.8	2499.6	2526.7	2550.5	2564.1	2577.6	2591.2
5°	2038.4	2041.7	2045.1	2048.5	2058.7	2065.5	2079.1	2092.6	2106.2	2116.4	2129.9
7.5°	1573.7	1628.0	1716.2	1804.3	1858.6	1909.5	1940.0	1967.1	1987.5	2007.8	2028.2
10°	1750.1	1760.2	1763.6	1763.6	1780.6	1797.5	1668.7	1536.4	1600.8	1665.3	1594.1
12.5°	1373.6	1410.9	1522.8	1631.4	1665.3	1695.8	1634.8	1573.7	1478.7	1380.4	1373.6
15°	1577.1	1587.3	1590.7	1590.7	1485.5	1380.4	1309.2	1234.5	1292.2	1346.5	1221.0
17.5°	1221.0	1231.2	1319.3	1407.5	1424.5	1441.4	1366.8	1292.2	1126.0	956.4	1115.8
20°	1451.6	1458.4	1458.4	1458.4	1282.0	1105.7	1119.2	1129.4	1183.7	1237.9	1193.8
22.5°	1170.1	1170.1	1170.1	1170.1	1224.4	1275.2	1166.7	1058.2	1119.2	1180.3	1126.0
25°	1472.0	1482.1	1458.4	1431.3	1268.5	1105.7	1156.5	1207.4	1115.8	1024.3	1105.7
27.5°	1343.1	1332.9	1285.4	1234.5	1258.3	1282.0	1170.1	1058.2	1129.4	1200.6	1166.7
30°	1784.0	1753.5	1702.6	1651.7	1458.4	1265.1	1234.5	1204.0	1143.0	1078.5	1149.8
32.5°	2370.7	2292.7	2055.3	1817.9	1699.2	1580.5	1427.9	1275.2	1261.7	1244.7	1265.1
35°	2526.7	2475.9	2377.5	2275.8	2072.3	1865.4	1672.1	1475.3	1410.9	1343.1	1356.6
37.5°	2557.3	2540.3	2520.0	2496.2	2289.3	2082.4	1872.2	1661.9	1594.1	1522.8	1472.0
40°	2581.0	2594.6	2631.9	2665.8	2458.9	2248.6	2058.7	1865.4	1794.2	1719.5	1631.4
42.5°	2689.5	2726.8	2774.3	2818.4	2628.5	2438.6	2272.4	2106.2	2014.6	1923.0	1841.6
45°	2940.5	2960.9	3011.7	3059.2	2879.5	2696.3	2506.4	2313.1	2235.1	2157.1	2075.7
47.5°	3306.8	3340.7	3337.3	3333.9	3133.8	2930.3	2716.7	2499.6	2448.7	2394.5	2316.5
50°	3768.1	3744.3	3679.9	3615.4	3398.4	3177.9	2927.0	2672.6	2648.8	2621.7	2557.3
52.5°	3998.7	3981.7	3893.6	3802.0	3581.5	3361.1	3089.7	2815.0	2845.6	2876.1	2815.0
55°	4012.3	4002.1	3937.7	3873.2	3659.5	3445.9	3205.1	2964.3	3038.9	3113.5	3089.7
57.5°	3913.9	3917.3	3897.0	3873.2	3683.3	3493.4	3293.2	3093.1	3222.0	3347.5	3371.3
60°	3662.9	3713.8	3747.7	3781.6	3662.9	3544.2	3371.3	3198.3	3395.0	3591.7	3656.1
62.5°	3198.3	3242.4	3364.5	3483.2	3506.9	3527.3	3412.0	3293.2	3557.8	3818.9	3924.1
65°	2479.3	2540.3	2723.5	2906.6	3096.5	3286.5	3313.6	3340.7	3788.4	4236.1	4324.3
67.5°	1546.6	1580.5	1773.8	1963.7	2347.0	2726.8	2943.9	3161.0	3934.3	4704.2	4843.2
70°	817.4	868.3	963.2	1054.8	1383.8	1712.8	2153.7	2594.6	3713.8	4833.0	5402.8
72.5°	620.7	641.0	691.9	742.8	858.1	973.4	1251.5	1529.6	2906.6	4280.2	5592.8
75°	447.7	464.6	518.9	569.8	685.1	797.0	912.3	1024.3	1794.2	2564.1	4636.3
77.5°	261.2	267.9	295.1	318.8	498.6	678.3	803.8	925.9	1112.4	1295.6	3310.2
80°	179.8	183.1	193.3	203.5	281.5	359.5	600.3	841.1	925.9	1007.3	2194.4
82.5°	118.7	135.7	142.4	149.2	176.4	203.5	352.7	498.6	732.6	963.2	1499.1
85°	61.0	67.8	81.4	91.6	105.1	115.3	159.4	200.1	607.1	1010.7	1078.5
87.5°	6.8	10.2	13.6	13.6	17.0	20.3	30.5	40.7	183.1	325.6	278.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1
2.5°	2604.8	2611.5	2608.1	2614.9	2618.3	2621.7	2625.1	2625.1	2621.7	2614.9	2608.1
5°	2143.5	2279.2	2509.8	2533.5	2557.3	2564.1	2570.8	2574.2	2567.4	2557.3	2547.1
7.5°	2045.1	2065.5	1858.6	2024.8	2187.6	2201.1	2211.3	2204.5	2207.9	2116.4	2021.4
10°	1522.8	1539.8	1546.6	1597.4	1644.9	1756.8	1868.8	1851.8	1838.2	1675.5	1509.3
12.5°	1366.8	1455.0	1475.3	1390.6	1305.8	1421.1	1536.4	1522.8	1499.1	1349.9	1200.6
15°	1095.5	1003.9	1200.6	1383.8	1563.5	1672.1	1777.2	1746.7	1719.5	1529.6	1336.3
17.5°	1271.9	1326.1	1261.7	1288.8	1315.9	1397.3	1475.3	1427.9	1410.9	1278.6	1143.0
20°	1149.8	1146.4	1102.3	1261.7	1421.1	1580.5	1736.5	1689.0	1607.6	1349.9	1088.7
22.5°	1071.7	1292.2	1387.2	1366.8	1343.1	1282.0	1217.6	1176.9	1115.8	1058.2	997.1
25°	1183.7	1092.1	1166.7	1410.9	1651.7	1695.8	1739.9	1638.1	1505.9	1244.7	983.6
27.5°	1132.8	1275.2	1370.2	1533.0	1692.4	1845.0	1997.7	1862.0	1689.0	1363.4	1034.4
30°	1221.0	1299.0	1563.5	1868.8	2174.0	2228.3	2279.2	2092.6	1862.0	1533.0	1204.0
32.5°	1285.4	1492.3	1726.3	1963.7	2197.8	2238.5	2279.2	2068.9	1804.3	1441.4	1078.5
35°	1366.8	1519.4	1733.1	2011.2	2289.3	2299.5	2306.3	2062.1	1763.6	1353.2	939.5
37.5°	1421.1	1594.1	1824.7	2119.8	2414.8	2394.5	2370.7	2092.6	1750.1	1292.2	834.3
40°	1543.2	1692.4	1940.0	2241.8	2543.7	2509.8	2475.9	2157.1	1753.5	1231.2	705.5
42.5°	1756.8	1814.5	2082.4	2404.6	2726.8	2689.5	2648.8	2269.0	1794.2	1197.2	596.9
45°	1990.9	2018.0	2248.6	2614.9	2981.2	2933.7	2886.3	2442.0	1868.8	1180.3	491.8
47.5°	2235.1	2228.3	2442.0	2886.3	3327.2	3225.4	3123.7	2645.4	2007.8	1214.2	420.6
50°	2489.4	2479.3	2686.1	3164.4	3642.6	3534.0	3425.5	2889.6	2167.2	1275.2	379.9
52.5°	2750.6	2774.3	2927.0	3425.5	3920.7	3822.3	3720.6	3154.2	2323.2	1343.1	362.9
55°	3062.6	3137.2	3198.3	3696.8	4195.4	4097.1	3995.3	3425.5	2540.3	1448.2	356.1
57.5°	3391.6	3490.0	3517.1	3971.6	4426.0	4361.6	4293.8	3683.3	2760.8	1570.3	376.5
60°	3720.6	3849.5	3947.8	4314.1	4677.0	4602.4	4527.8	3944.4	2967.7	1706.0	444.3
62.5°	4025.8	4205.6	4365.0	4632.9	4897.5	4809.3	4721.1	4171.7	3201.7	1892.5	580.0
65°	4409.1	4568.5	4741.5	4917.8	5090.8	5006.0	4921.2	4456.6	3513.7	2126.5	736.0
67.5°	4982.3	5029.7	5117.9	5226.5	5331.6	5280.7	5226.5	4805.9	3785.0	2262.2	736.0
70°	5969.2	5864.1	5731.8	5728.4	5721.6	5640.2	5555.4	5002.6	3802.0	2207.9	613.9
72.5°	6901.9	7261.4	6840.9	6535.6	6230.4	5870.9	5508.0	4738.1	3357.7	1923.0	488.4
75°	6705.2	8102.5	7899.0	7071.5	6243.9	5592.8	4941.6	4127.6	2764.2	1590.7	417.2
77.5°	5321.4	7149.5	7342.8	6583.1	5820.0	4938.2	4053.0	3191.5	1916.3	1132.8	349.3
80°	3378.0	5345.2	5379.1	4673.6	3964.8	3018.5	2072.3	1390.6	922.5	600.3	278.1
82.5°	2035.0	3164.4	2754.0	1973.9	1193.8	827.6	457.9	440.9	339.2	251.0	162.8
85°	1146.4	1550.0	1112.4	729.2	345.9	247.6	145.8	156.0	149.2	122.1	91.6
87.5°	227.2	267.9	183.1	105.1	27.1	27.1	23.7	23.7	17.0	17.0	13.6
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°	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1
2.5°	2608.1	2608.1	2601.4	2594.6	2591.2	2587.8	2486.0	2384.3	2316.5	2245.2	2228.3
5°	2421.6	2296.1	2201.1	2106.2	2085.8	2065.5	2062.1	2058.7	2048.5	2035.0	2031.6
7.5°	1912.9	1800.9	1878.9	1953.6	1940.0	1923.0	1912.9	1899.3	1875.6	1851.8	1733.1
10°	1472.0	1434.6	1434.6	1431.3	1404.1	1377.0	1438.0	1499.1	1566.9	1634.8	1628.0
12.5°	1254.9	1305.8	1173.5	1037.8	1112.4	1183.7	1251.5	1315.9	1349.9	1383.8	1278.6
15°	1183.7	1027.7	983.6	939.5	973.4	1007.3	908.9	807.2	885.2	963.2	980.2
17.5°	1061.6	980.2	936.1	888.6	759.7	627.4	671.5	715.6	712.2	708.8	691.9
20°	990.3	888.6	810.6	729.2	668.1	607.1	542.7	474.8	444.3	410.4	491.8
22.5°	942.9	888.6	725.8	563.0	515.5	468.0	417.2	362.9	383.3	400.2	413.8
25°	824.2	661.4	569.8	478.2	403.6	325.6	329.0	332.4	315.4	298.5	376.5
27.5°	834.3	630.8	488.4	345.9	318.8	288.3	271.3	251.0	278.1	301.9	308.6
30°	875.0	546.0	413.8	281.5	251.0	220.5	230.6	237.4	237.4	237.4	271.3
32.5°	776.7	474.8	352.7	227.2	210.3	189.9	193.3	193.3	210.3	227.2	244.2
35°	658.0	373.1	288.3	200.1	183.1	166.2	173.0	179.8	196.7	213.7	237.4
37.5°	566.4	295.1	237.4	179.8	169.6	159.4	162.8	166.2	183.1	196.7	217.1
40°	478.2	247.6	210.3	173.0	162.8	152.6	156.0	156.0	169.6	183.1	196.7
42.5°	413.8	227.2	200.1	169.6	159.4	145.8	149.2	149.2	159.4	169.6	179.8
45°	356.1	217.1	193.3	166.2	156.0	142.4	142.4	139.1	149.2	156.0	162.8
47.5°	318.8	213.7	189.9	166.2	152.6	135.7	132.3	128.9	139.1	145.8	156.0
50°	298.5	213.7	189.9	162.8	145.8	128.9	125.5	122.1	135.7	145.8	162.8
52.5°	291.7	217.1	189.9	162.8	142.4	122.1	122.1	122.1	145.8	169.6	176.4
55°	291.7	223.8	193.3	159.4	139.1	118.7	125.5	132.3	139.1	145.8	145.8
57.5°	298.5	220.5	186.5	152.6	139.1	122.1	118.7	115.3	118.7	122.1	122.1
60°	329.0	213.7	179.8	145.8	128.9	111.9	108.5	105.1	111.9	115.3	115.3
62.5°	396.8	210.3	179.8	145.8	125.5	105.1	105.1	101.7	105.1	108.5	111.9
65°	485.0	234.0	189.9	145.8	125.5	105.1	98.4	91.6	98.4	101.7	101.7
67.5°	505.3	274.7	220.5	162.8	132.3	101.7	95.0	88.2	95.0	98.4	98.4
70°	457.9	301.9	237.4	173.0	139.1	101.7	95.0	84.8	88.2	91.6	88.2
72.5°	393.4	295.1	234.0	169.6	135.7	98.4	91.6	81.4	84.8	84.8	81.4
75°	335.8	254.4	200.1	142.4	115.3	84.8	78.0	71.2	74.6	74.6	74.6
77.5°	281.5	210.3	162.8	111.9	91.6	67.8	64.4	61.0	64.4	67.8	64.4
80°	220.5	159.4	122.1	81.4	67.8	50.9	54.3	54.3	57.7	57.7	57.7
82.5°	128.9	95.0	78.0	57.7	47.5	37.3	40.7	44.1	47.5	47.5	47.5
85°	78.0	61.0	50.9	40.7	33.9	23.7	30.5	33.9	33.9	33.9	30.5
87.5°	13.6	13.6	13.6	13.6	10.2	6.8	13.6	17.0	17.0	17.0	13.6
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):

	165°	170°	175°	180°
0°	2642.1	2642.1	2642.1	2642.1
2.5°	2207.9	2207.9	2204.5	2204.5
5°	2028.2	2021.4	2014.6	2021.4
7.5°	1614.4	1566.9	1519.4	1533.0
10°	1617.8	1614.4	1611.0	1607.6
12.5°	1170.1	1132.8	1095.5	1071.7
15°	993.7	983.6	970.0	970.0
17.5°	671.5	641.0	610.5	590.1
20°	573.2	590.1	603.7	610.5
22.5°	427.3	440.9	454.5	461.3
25°	451.1	485.0	515.5	518.9
27.5°	312.0	329.0	342.6	335.8
30°	305.2	315.4	325.6	325.6
32.5°	261.2	288.3	315.4	318.8
35°	261.2	274.7	288.3	291.7
37.5°	234.0	244.2	251.0	254.4
40°	210.3	217.1	220.5	220.5
42.5°	186.5	203.5	217.1	217.1
45°	166.2	210.3	254.4	267.9
47.5°	162.8	227.2	291.7	305.2
50°	176.4	237.4	295.1	301.9
52.5°	179.8	213.7	244.2	244.2
55°	142.4	159.4	173.0	169.6
57.5°	122.1	135.7	145.8	145.8
60°	115.3	132.3	145.8	149.2
62.5°	111.9	118.7	125.5	132.3
65°	101.7	101.7	101.7	101.7
67.5°	95.0	95.0	91.6	91.6
70°	84.8	84.8	84.8	84.8
72.5°	78.0	78.0	78.0	74.6
75°	71.2	71.2	67.8	67.8
77.5°	61.0	61.0	61.0	61.0
80°	54.3	54.3	50.9	50.9
82.5°	44.1	44.1	40.7	37.3
85°	27.1	27.1	23.7	20.3
87.5°	10.2	10.2	6.8	3.4
90°	0.0	0.0	0.0	0.0



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