

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: P560651

Luminaire Tested: **SDL-PA1-50-830-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560651
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-PA1-50-830-U-T2U
Description: Springdale
(1) 80 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5172.5 lumens
Efficiency: N/A
Efficacy: 98.7 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): 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

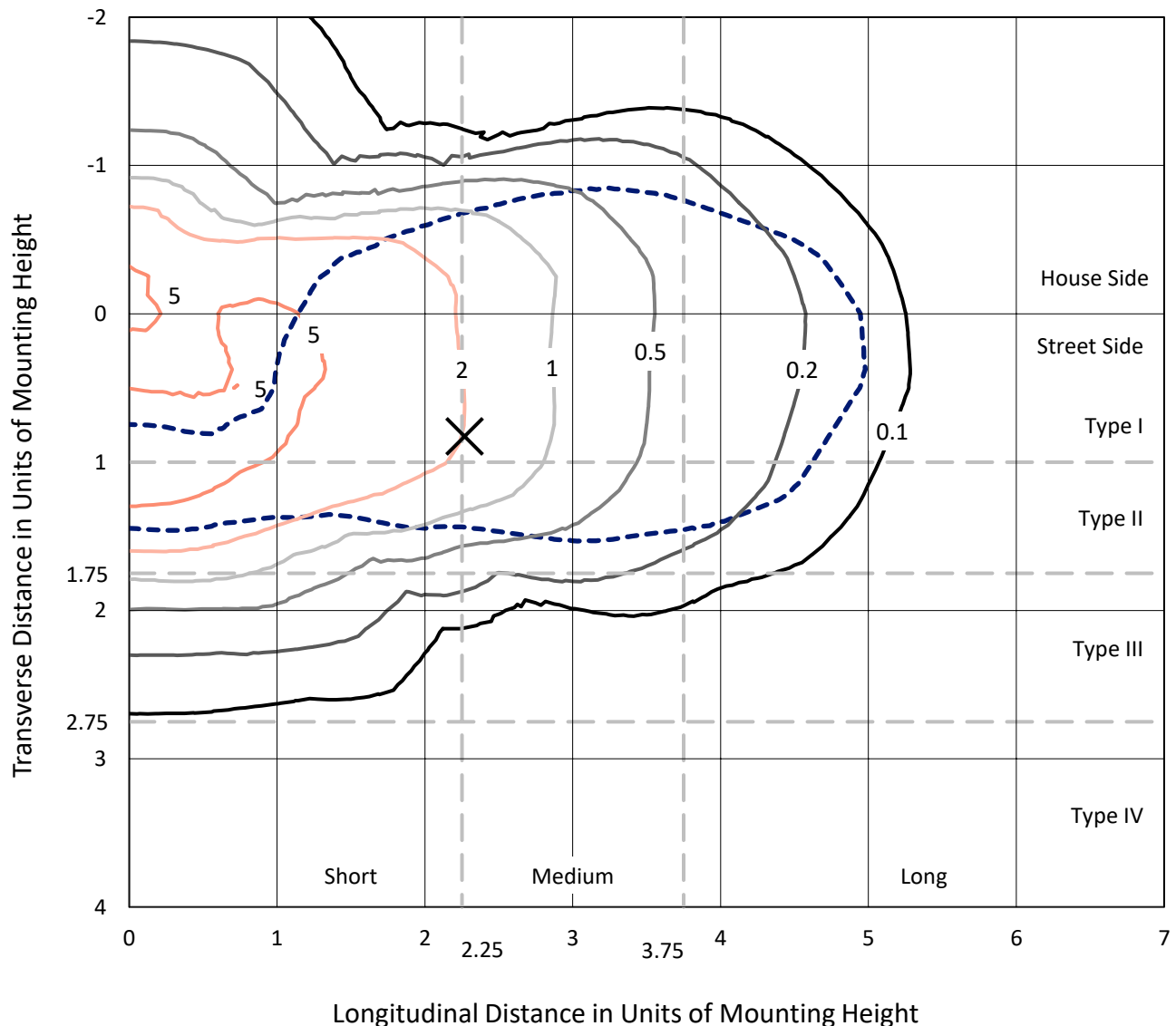


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

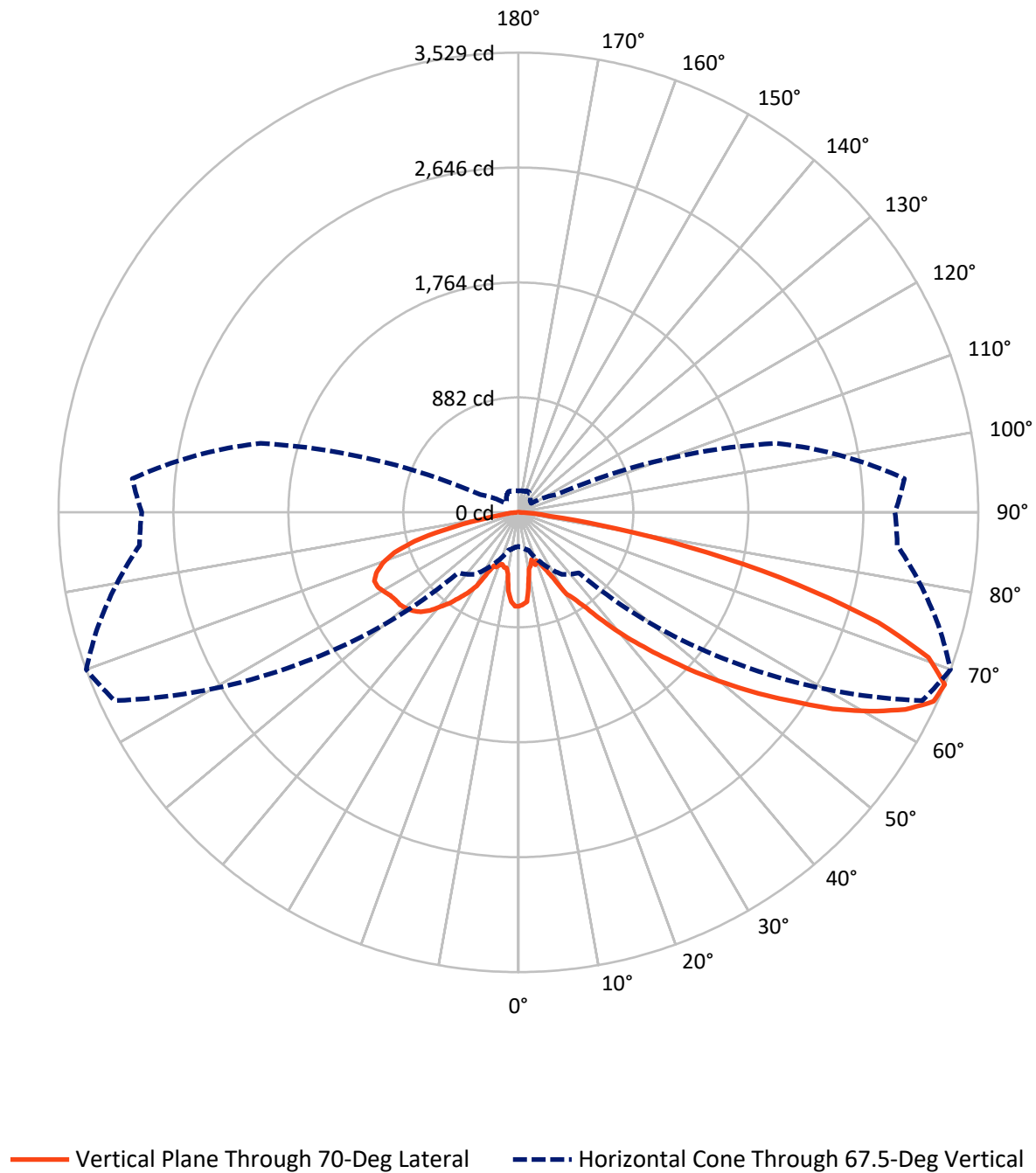


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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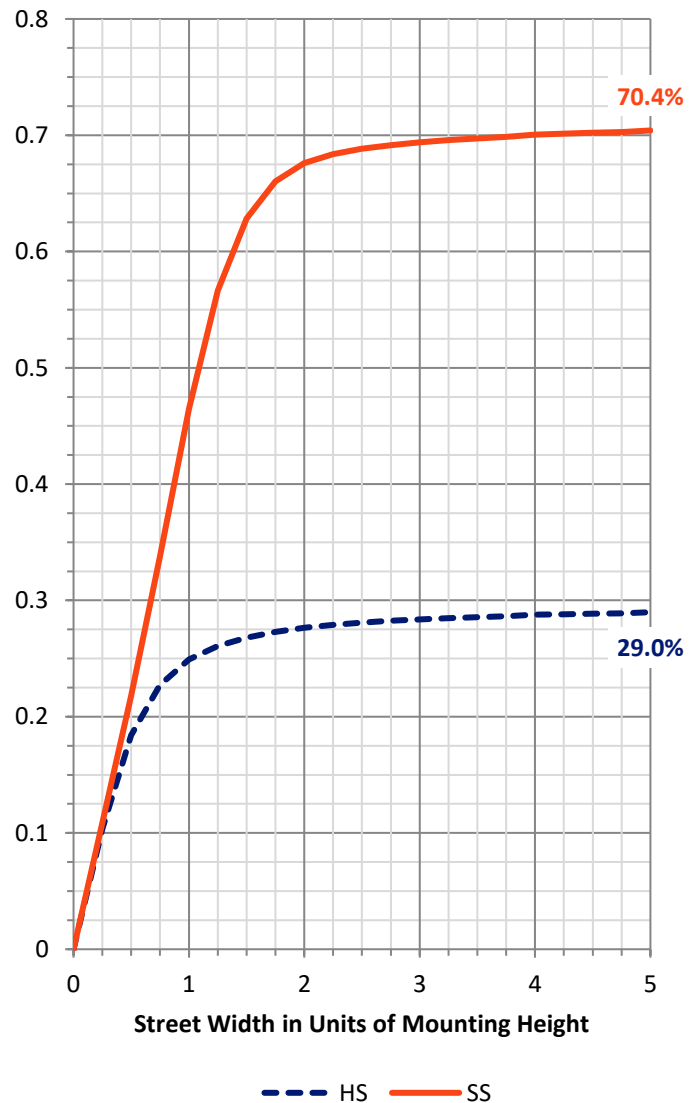
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1516.9	0.0	1516.9
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	3655.7	0.0	3655.7
	% Fixture	70.7	0.0	70.7
Total	Lumens	5172.5	0.0	5172.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.1
10°-20°	135.4	2.6
20°-30°	240.6	4.7
30°-40°	508.6	9.8
40°-50°	931.1	18.0
50°-60°	1270.3	24.6
60°-70°	1197.5	23.2
70°-80°	724.8	14.0
80°-90°	106.5	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°	5172.5	100.0
0°-180°	5172.5	100.0

Coefficient of Utilization



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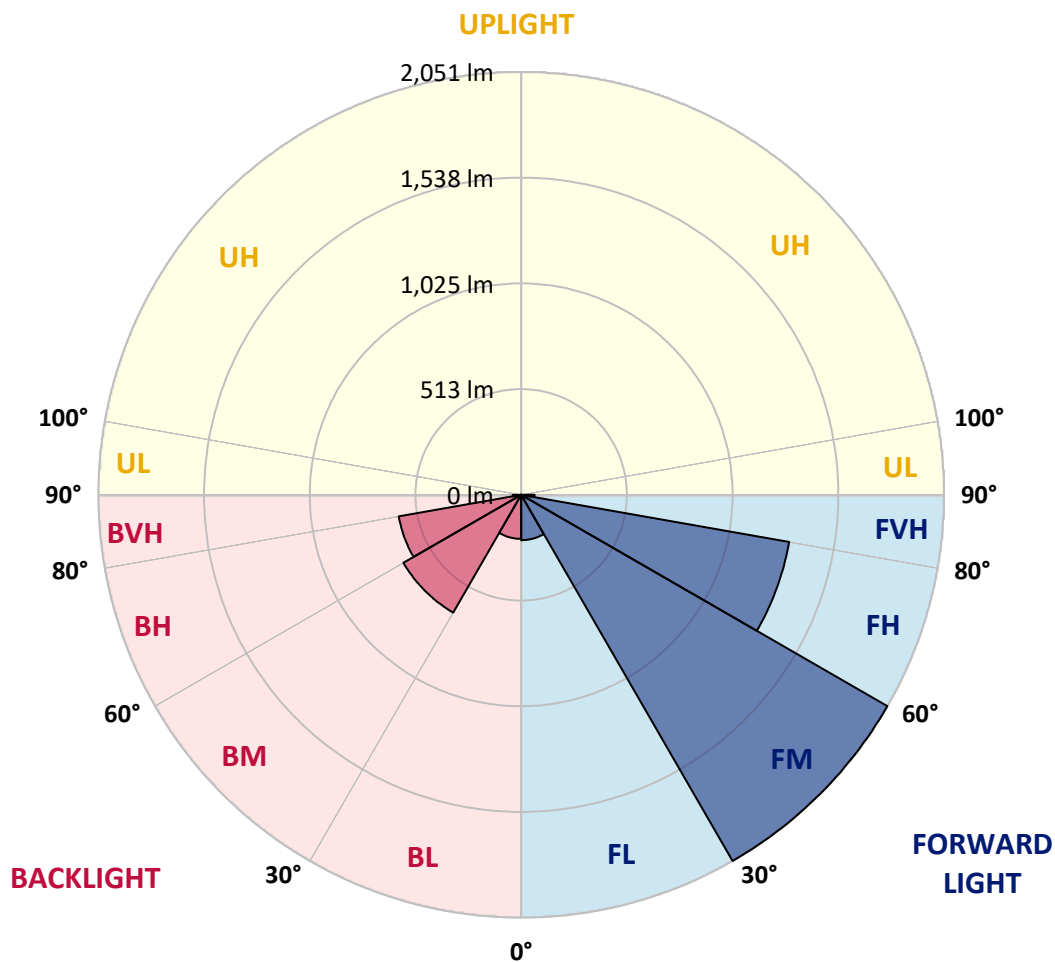
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.1	4.3			
FM	(30°-60°)	2050.6	39.6			
FH	(60°-80°)	1319.7	25.5			G1/1800
FVH	(80°-90°)	65.3	1.3			G1/100
BL	(0°-30°)	213.7	4.1	B1/500		
BM	(30°-60°)	659.4	12.7	B1/1000		
BH	(60°-80°)	602.6	11.7	B2/1000		G2/1000
BVH	(80°-90°)	41.2	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°	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
2.5°	604.8	610.4	647.6	684.9	686.7	686.7	688.6	690.4	696.0	699.7	703.5
5°	563.9	567.6	567.6	567.6	569.5	571.3	573.2	573.2	576.9	578.8	582.5
7.5°	472.7	509.9	522.9	534.1	541.6	547.1	550.9	554.6	558.3	562.0	565.7
10°	537.8	537.8	539.7	539.7	539.7	537.8	500.6	461.5	480.1	498.7	470.8
12.5°	442.9	450.4	483.9	515.5	524.8	532.2	513.6	493.2	459.7	426.2	422.4
15°	526.7	526.7	526.7	524.8	491.3	455.9	420.6	383.4	405.7	428.0	394.5
17.5°	455.9	455.9	483.9	509.9	508.1	504.3	472.7	439.2	387.1	333.1	375.9
20°	575.1	573.2	563.9	552.7	483.9	415.0	429.9	444.8	448.5	450.4	437.3
22.5°	513.6	515.5	526.7	537.8	539.7	541.6	461.5	379.6	426.2	472.7	428.0
25°	714.6	710.9	694.2	675.5	599.2	521.1	536.0	550.9	474.6	396.4	444.8
27.5°	679.3	668.1	660.7	653.2	666.2	679.3	608.5	536.0	552.7	569.5	508.1
30°	971.4	971.4	952.8	932.4	817.0	699.7	681.1	662.5	617.9	571.3	582.5
32.5°	1230.1	1230.1	1161.3	1090.5	1021.7	952.8	861.6	770.5	751.8	731.4	712.8
35°	1548.4	1539.1	1500.0	1459.0	1310.1	1161.3	1044.0	926.8	889.6	852.3	833.7
37.5°	1846.1	1825.6	1771.7	1715.8	1559.5	1401.3	1246.9	1092.4	1051.5	1010.5	969.6
40°	2091.8	2080.6	2043.4	2004.3	1827.5	1650.7	1475.8	1299.0	1245.0	1191.0	1131.5
42.5°	2317.0	2307.6	2274.1	2238.8	2063.9	1887.1	1721.4	1553.9	1473.9	1393.9	1323.2
45°	2482.6	2467.7	2445.4	2421.2	2281.6	2140.2	1972.7	1803.3	1771.7	1740.0	1602.3
47.5°	2534.7	2508.6	2504.9	2501.2	2389.5	2277.9	2143.9	2009.9	2015.5	2021.1	1861.0
50°	2458.4	2419.3	2436.1	2452.8	2408.1	2361.6	2257.4	2153.2	2199.7	2244.4	2117.8
52.5°	2181.1	2171.8	2214.6	2255.5	2266.7	2277.9	2255.5	2231.3	2317.0	2402.6	2356.0
55°	1799.6	1840.5	1900.1	1959.6	2006.2	2050.8	2116.0	2181.1	2328.1	2475.1	2508.6
57.5°	1418.1	1460.9	1529.7	1598.6	1652.6	1706.5	1840.5	1974.5	2196.0	2417.4	2568.2
60°	954.7	999.4	1112.9	1224.5	1300.8	1377.1	1498.1	1619.1	1898.2	2177.4	2482.6
62.5°	636.5	621.6	716.5	809.5	932.4	1055.2	1109.2	1161.3	1453.4	1743.8	2236.9
65°	390.8	392.7	429.9	465.3	601.1	735.1	777.9	818.8	984.5	1150.1	1821.9
67.5°	262.4	268.0	284.7	301.5	366.6	431.8	506.2	580.6	619.7	656.9	1328.8
70°	232.6	234.5	241.9	249.4	268.0	286.6	355.5	424.3	402.0	377.8	753.7
72.5°	204.7	206.6	219.6	230.8	240.1	249.4	290.3	331.3	305.2	279.2	375.9
75°	167.5	173.1	186.1	197.3	215.9	232.6	241.9	251.2	238.2	223.3	241.9
77.5°	137.7	141.4	150.7	160.0	178.7	195.4	204.7	214.0	193.5	173.1	184.2
80°	107.9	109.8	117.2	124.7	139.6	152.6	163.8	173.1	154.5	134.0	139.6
82.5°	65.1	67.0	78.2	87.5	100.5	111.7	119.1	124.7	130.3	134.0	117.2
85°	35.4	35.4	42.8	50.2	52.1	54.0	61.4	67.0	83.7	98.6	85.6
87.5°	5.6	5.6	7.4	7.4	11.2	13.0	14.9	14.9	16.7	16.7	18.6
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°	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
2.5°	705.3	707.2	707.2	707.2	709.0	710.9	712.8	712.8	714.6	716.5	718.3
5°	586.2	634.6	681.1	688.6	694.2	697.9	701.6	703.5	707.2	710.9	712.8
7.5°	569.5	569.5	569.5	556.4	604.8	610.4	616.0	619.7	623.4	619.7	614.1
10°	441.1	441.1	439.2	442.9	463.4	498.7	532.2	536.0	539.7	509.9	478.3
12.5°	416.9	422.4	428.0	418.7	381.5	413.1	444.8	450.4	452.2	426.2	398.3
15°	359.2	361.0	362.9	375.9	452.2	483.9	515.5	521.1	526.7	498.7	469.0
17.5°	416.9	403.8	389.0	424.3	394.5	415.0	433.6	389.0	429.9	422.4	415.0
20°	424.3	379.6	333.1	396.4	463.4	495.0	524.8	528.5	530.4	508.1	483.9
22.5°	383.4	426.2	469.0	426.2	400.1	396.4	392.7	390.8	392.7	405.7	416.9
25°	493.2	439.2	385.2	483.9	545.3	560.2	575.1	567.6	563.9	536.0	508.1
27.5°	446.6	489.4	530.4	571.3	589.9	610.4	629.0	634.6	604.8	575.1	545.3
30°	591.8	617.9	642.0	725.8	787.2	805.8	824.4	805.8	794.6	757.4	718.3
32.5°	692.3	744.4	796.5	794.6	852.3	867.2	880.3	856.1	835.6	794.6	751.8
35°	815.1	848.6	882.1	900.7	958.4	964.0	969.6	937.9	908.2	859.8	811.4
37.5°	928.6	971.4	1012.4	1058.9	1109.2	1098.0	1085.0	1045.9	997.5	960.3	923.1
40°	1070.1	1122.2	1174.3	1233.8	1263.6	1246.9	1228.3	1168.7	1122.2	1083.1	1044.0
42.5°	1250.6	1306.4	1360.4	1412.5	1423.7	1405.1	1384.6	1319.5	1248.7	1209.7	1168.7
45°	1462.8	1507.4	1552.1	1606.0	1628.4	1594.9	1559.5	1477.6	1393.9	1338.1	1282.2
47.5°	1699.1	1719.6	1740.0	1833.1	1862.9	1807.0	1749.3	1660.0	1542.8	1470.2	1395.8
50°	1991.3	1985.7	1978.2	2060.1	2129.0	2035.9	1941.0	1836.8	1721.4	1619.1	1514.9
52.5°	2309.5	2255.5	2199.7	2309.5	2343.0	2231.3	2119.7	2008.0	1892.6	1760.5	1626.5
55°	2542.1	2512.4	2482.6	2560.7	2557.0	2426.8	2294.6	2162.5	2067.6	1890.8	1714.0
57.5°	2717.1	2743.1	2767.3	2845.5	2756.2	2607.3	2458.4	2326.3	2244.4	2022.9	1801.5
60°	2785.9	2919.9	3052.1	3098.6	2962.7	2795.2	2625.9	2495.6	2426.8	2158.8	1890.8
62.5°	2730.1	3026.0	3321.9	3331.2	3152.5	2964.6	2776.6	2670.5	2635.2	2305.8	1974.5
65°	2493.7	2981.3	3467.1	3500.6	3299.6	3102.3	2903.2	2825.0	2847.3	2443.5	2037.8
67.5°	1998.7	2709.6	3418.7	3528.5	3334.9	3126.5	2918.1	2890.1	2973.9	2510.5	2047.1
70°	1129.6	2082.5	3033.4	3338.6	3236.3	3029.7	2821.3	2834.3	2959.0	2473.3	1987.6
72.5°	470.8	1440.4	2410.0	2888.3	2977.6	2802.7	2625.9	2674.3	2759.9	2298.3	1835.0
75°	260.5	919.3	1578.1	2214.6	2490.0	2443.5	2395.1	2449.1	2408.1	1961.5	1514.9
77.5°	193.5	496.9	800.2	1483.2	1874.0	1980.1	2084.3	2110.4	1881.5	1433.0	984.5
80°	145.2	236.3	325.7	757.4	1004.9	1194.8	1384.6	1267.3	1107.3	774.2	441.1
82.5°	100.5	135.9	171.2	243.8	390.8	450.4	508.1	483.9	362.9	255.0	145.2
85°	70.7	89.3	107.9	134.0	167.5	134.0	100.5	81.9	94.9	87.5	80.0
87.5°	18.6	18.6	16.7	18.6	13.0	11.2	9.3	7.4	7.4	7.4	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°	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2	720.2
2.5°	720.2	722.1	722.1	722.1	722.1	720.2	710.9	701.6	679.3	656.9	649.5
5°	688.6	664.4	645.8	627.2	627.2	627.2	630.9	634.6	636.5	638.3	640.2
7.5°	614.1	612.3	619.7	627.2	632.7	638.3	642.0	645.8	638.3	630.9	614.1
10°	480.1	480.1	489.4	496.9	509.9	522.9	560.2	597.4	629.0	660.7	666.2
12.5°	435.5	470.8	450.4	428.0	474.6	521.1	562.0	601.1	632.7	662.5	638.3
15°	437.3	403.8	411.3	418.7	469.0	519.2	482.0	442.9	517.4	589.9	606.7
17.5°	416.9	418.7	452.2	485.7	435.5	383.4	448.5	513.6	541.6	567.6	543.4
20°	428.0	370.3	409.4	448.5	483.9	517.4	483.9	448.5	457.8	467.1	530.4
22.5°	452.2	487.6	454.1	420.6	461.5	500.6	483.9	467.1	496.9	524.8	498.7
25°	450.4	390.8	446.6	502.5	465.3	426.2	446.6	467.1	452.2	435.5	483.9
27.5°	519.2	493.2	478.3	461.5	482.0	502.5	459.7	416.9	416.9	416.9	411.3
30°	649.5	580.6	550.9	519.2	469.0	418.7	403.8	389.0	390.8	392.7	420.6
32.5°	725.8	699.7	610.4	521.1	474.6	428.0	389.0	349.9	353.6	357.3	392.7
35°	792.8	772.3	653.2	532.2	455.9	377.8	344.3	308.9	325.7	340.6	370.3
37.5°	869.1	813.3	651.4	487.6	405.7	323.8	303.3	282.9	294.0	303.3	322.0
40°	937.9	830.0	634.6	437.3	355.5	271.7	262.4	251.2	260.5	269.8	281.0
42.5°	1012.4	854.2	610.4	364.8	299.6	234.5	230.8	227.0	236.3	245.7	253.1
45°	1070.1	857.9	578.8	297.8	255.0	212.2	212.2	210.3	219.6	227.0	230.8
47.5°	1107.3	817.0	528.5	238.2	219.6	201.0	202.8	202.8	210.3	215.9	217.7
50°	1133.4	750.0	480.1	210.3	201.0	191.7	191.7	191.7	199.1	204.7	208.4
52.5°	1152.0	675.5	435.5	193.5	189.8	184.2	184.2	182.4	191.7	201.0	202.8
55°	1157.5	599.2	390.8	180.5	176.8	173.1	176.8	178.7	189.8	199.1	201.0
57.5°	1170.6	539.7	353.6	167.5	165.6	163.8	169.4	174.9	186.1	197.3	197.3
60°	1196.6	500.6	327.5	154.5	154.5	154.5	163.8	171.2	182.4	193.5	191.7
62.5°	1220.8	465.3	303.3	141.4	143.3	145.2	156.3	167.5	178.7	189.8	188.0
65°	1224.5	409.4	269.8	130.3	134.0	135.9	148.9	161.9	173.1	184.2	180.5
67.5°	1183.6	320.1	219.6	119.1	124.7	128.4	143.3	156.3	167.5	176.8	173.1
70°	1109.2	228.9	169.4	109.8	115.4	119.1	134.0	147.0	156.3	165.6	161.9
72.5°	999.4	163.8	132.1	100.5	104.2	107.9	121.0	134.0	145.2	154.5	150.7
75°	824.4	132.1	111.7	91.2	94.9	96.8	109.8	121.0	132.1	141.4	135.9
77.5°	547.1	107.9	94.9	81.9	83.7	85.6	96.8	106.1	115.4	122.8	119.1
80°	264.3	87.5	80.0	70.7	72.6	72.6	81.9	91.2	98.6	104.2	102.4
82.5°	107.9	68.9	63.3	57.7	57.7	57.7	67.0	74.4	81.9	87.5	83.7
85°	67.0	54.0	50.2	44.7	42.8	40.9	44.7	48.4	52.1	54.0	52.1
87.5°	9.3	9.3	11.2	13.0	11.2	7.4	11.2	14.9	14.9	13.0	11.2
90°	0.0	0.0	5.6	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	720.2	720.2	720.2	720.2
2.5°	642.0	642.0	642.0	645.8
5°	640.2	640.2	640.2	643.9
7.5°	597.4	578.8	560.2	562.0
10°	670.0	671.8	671.8	673.7
12.5°	612.3	582.5	552.7	556.4
15°	623.4	623.4	621.6	623.4
17.5°	519.2	509.9	500.6	500.6
20°	593.7	593.7	593.7	593.7
22.5°	472.7	470.8	469.0	470.8
25°	532.2	534.1	534.1	532.2
27.5°	405.7	429.9	452.2	454.1
30°	446.6	446.6	446.6	446.6
32.5°	428.0	446.6	465.3	467.1
35°	398.3	396.4	394.5	400.1
37.5°	338.7	335.0	331.3	331.3
40°	292.2	284.7	277.3	277.3
42.5°	258.7	253.1	245.7	243.8
45°	234.5	228.9	221.5	221.5
47.5°	217.7	214.0	210.3	208.4
50°	210.3	206.6	202.8	202.8
52.5°	204.7	202.8	199.1	199.1
55°	201.0	199.1	195.4	195.4
57.5°	197.3	195.4	191.7	191.7
60°	189.8	188.0	186.1	186.1
62.5°	184.2	182.4	180.5	180.5
65°	176.8	176.8	174.9	173.1
67.5°	167.5	167.5	167.5	163.8
70°	156.3	156.3	156.3	152.6
72.5°	145.2	145.2	143.3	137.7
75°	130.3	128.4	126.5	122.8
77.5°	115.4	111.7	107.9	106.1
80°	98.6	94.9	91.2	87.5
82.5°	78.2	76.3	72.6	63.3
85°	48.4	42.8	35.4	31.6
87.5°	9.3	7.4	5.6	1.9
90°	0.0	0.0	0.0	0.0

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