

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: P561337

Luminaire Tested: **SDL-PA1-90-827-U-T3**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P561337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: SDL-PA1-90-827-U-T3  
Description: Springdale  
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7487.6 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

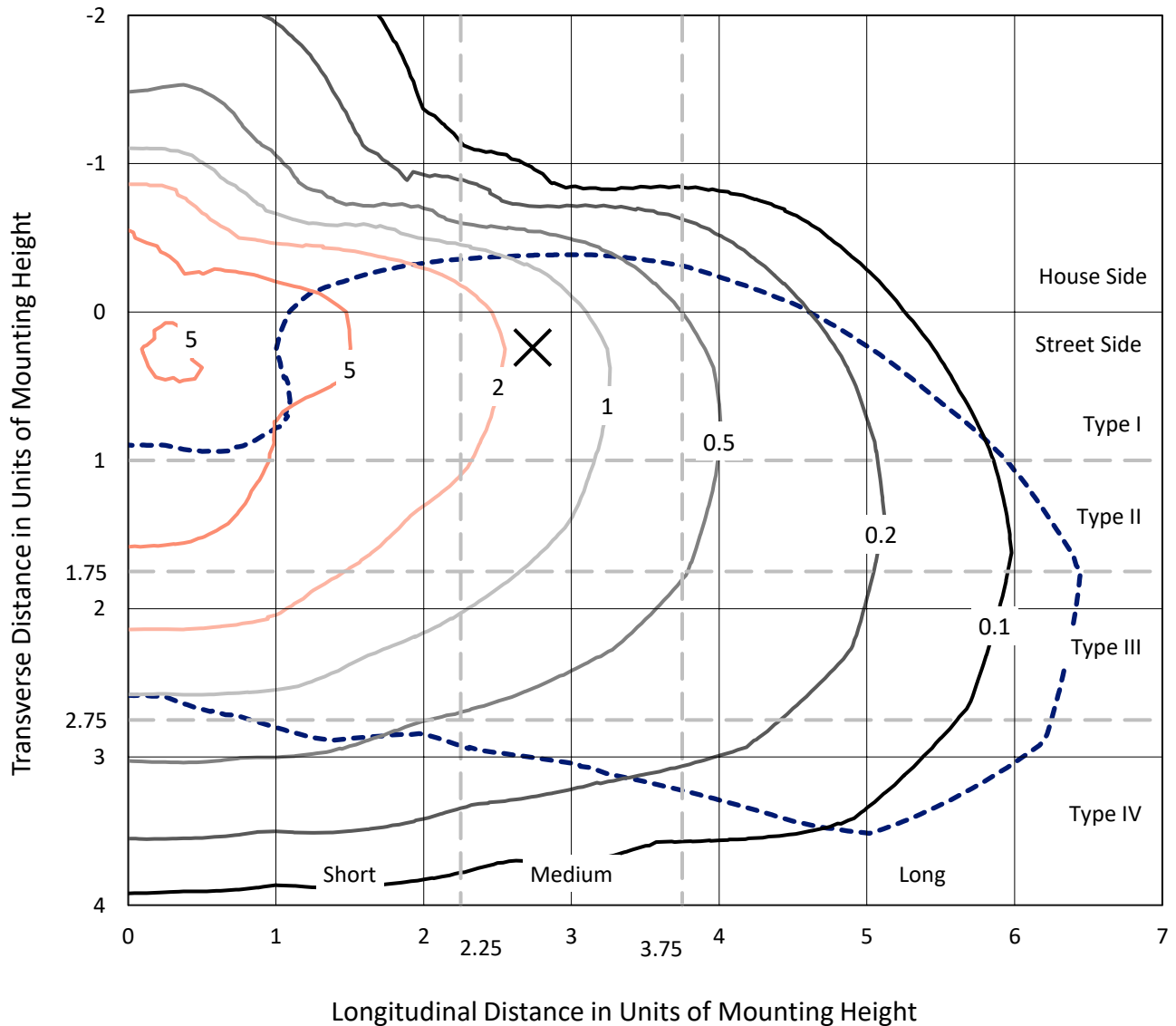
Input Watts (W): 92.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

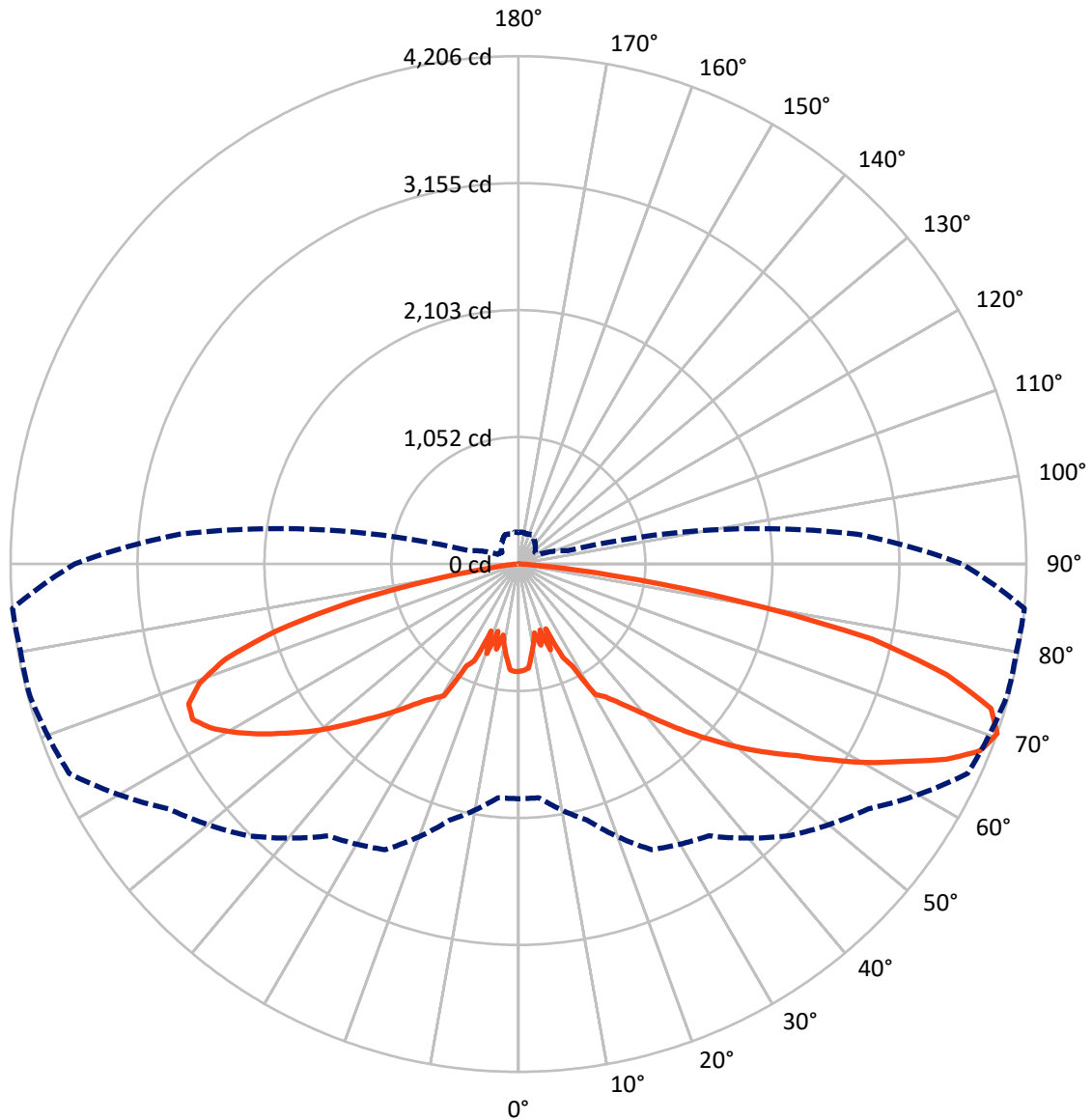
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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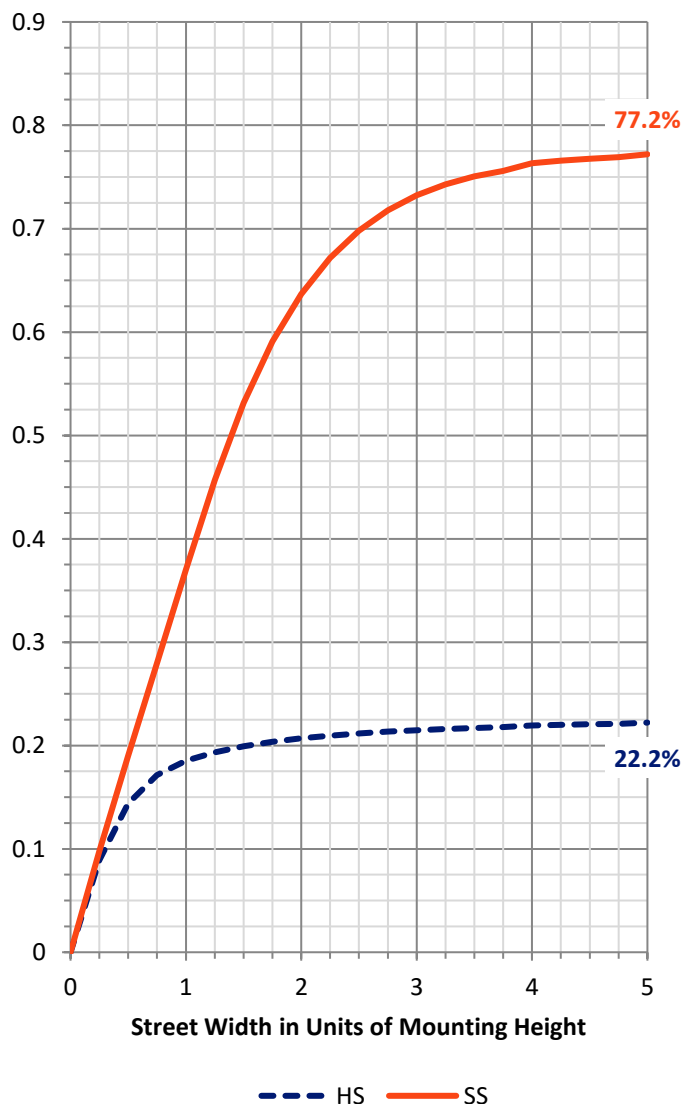
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1693.0	0.0	1693.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	5794.6	0.0	5794.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	7487.6	0.0	7487.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	1.0
10°-20°	180.8	2.4
20°-30°	330.4	4.4
30°-40°	624.0	8.3
40°-50°	1016.5	13.6
50°-60°	1568.1	20.9
60°-70°	1922.1	25.7
70°-80°	1505.3	20.1
80°-90°	268.0	3.6
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°	7487.6	100.0
0°-180°	7487.6	100.0

**Coefficient of Utilization**



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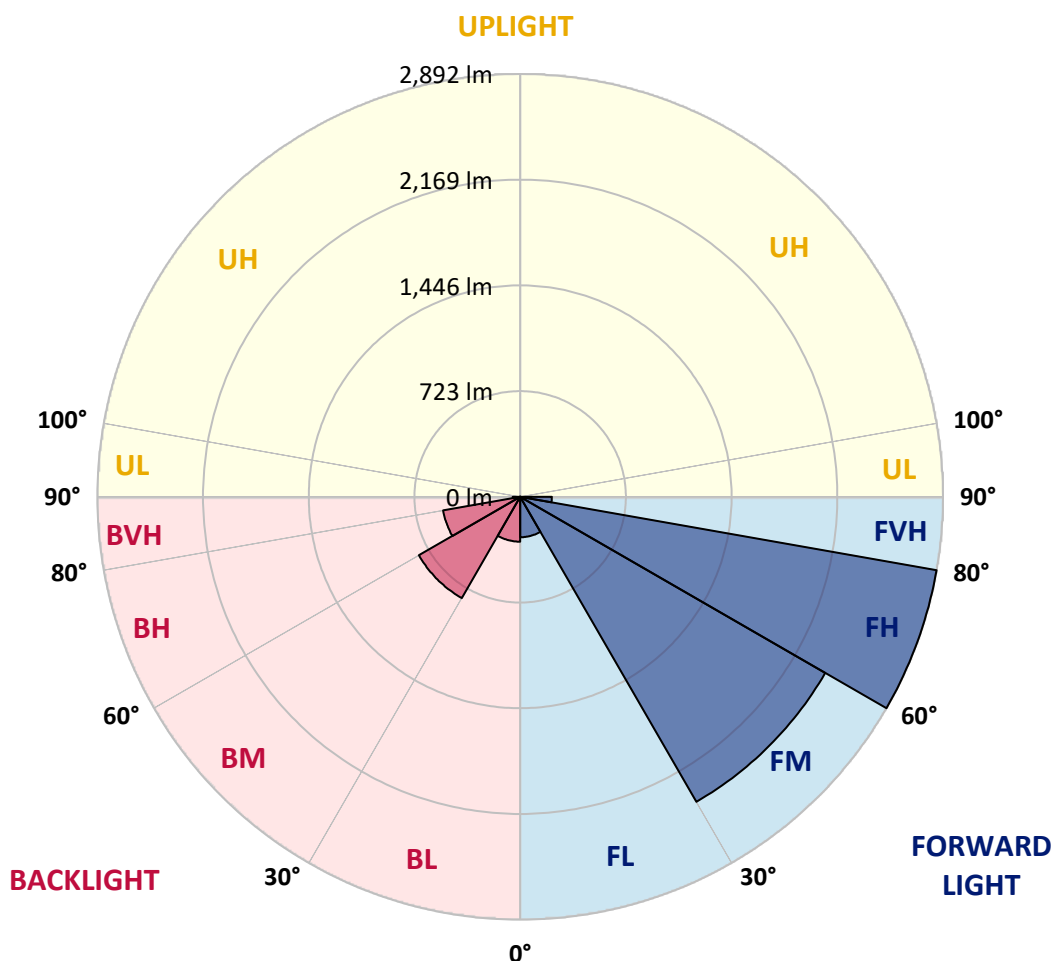
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.4	3.7			
FM (30°-60°)	2408.9	32.2			
FH (60°-80°)	2892.2	38.6			G2/5000
FVH (80°-90°)	217.1	2.9			G2/225
BL (0°-30°)	307.1	4.1	B1/500		
BM (30°-60°)	799.7	10.7	B1/1000		
BH (60°-80°)	535.2	7.1	B2/1000		G2/1000
BVH (80°-90°)	51.0	0.7			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4
2.5°	733.4	799.1	799.1	799.1	812.8	823.7	829.2	831.9	842.9	851.1	856.6
5°	684.2	686.9	686.9	686.9	689.6	692.4	695.1	697.8	703.3	706.1	714.3
7.5°	574.7	585.6	607.5	626.7	640.4	654.1	665.0	673.2	678.7	684.2	686.9
10°	640.4	640.4	640.4	640.4	640.4	640.4	607.5	574.7	577.4	577.4	561.0
12.5°	536.4	552.8	577.4	599.3	618.5	634.9	613.0	591.1	550.1	509.0	509.0
15°	621.2	621.2	618.5	615.7	580.2	544.6	511.8	478.9	500.8	522.7	484.4
17.5°	533.6	536.4	569.2	599.3	593.9	585.6	555.5	522.7	470.7	416.0	470.7
20°	684.2	676.0	659.5	643.1	566.5	489.9	503.5	517.2	530.9	541.9	541.9
22.5°	629.4	634.9	645.9	656.8	648.6	637.6	558.3	478.9	525.4	572.0	530.9
25°	862.0	862.0	829.2	796.4	714.3	629.4	643.1	654.1	574.7	492.6	561.0
27.5°	796.4	790.9	777.2	760.8	777.2	790.9	719.7	645.9	667.7	689.6	632.2
30°	1059.1	1059.1	1045.4	1031.7	914.0	793.6	785.4	774.5	728.0	678.7	711.5
32.5°	1269.8	1267.1	1204.1	1141.2	1075.5	1007.1	935.9	862.0	856.6	851.1	845.6
35°	1521.6	1521.6	1486.0	1450.4	1305.4	1157.6	1072.8	987.9	963.3	938.7	957.8
37.5°	1663.9	1683.0	1669.4	1652.9	1494.2	1332.8	1215.1	1094.7	1070.0	1045.4	1053.6
40°	1860.9	1855.5	1852.7	1847.2	1663.9	1480.5	1354.6	1226.0	1209.6	1193.2	1193.2
42.5°	2159.2	2129.1	2096.3	2060.7	1874.6	1688.5	1548.9	1406.6	1376.5	1343.7	1346.4
45°	2569.7	2536.9	2460.3	2380.9	2192.1	2003.2	1817.1	1631.0	1579.1	1524.3	1518.8
47.5°	2821.5	2785.9	2747.6	2706.6	2504.0	2301.5	2110.0	1915.7	1839.0	1762.4	1732.3
50°	3081.5	3048.6	3018.5	2988.4	2810.5	2632.7	2441.1	2249.5	2129.1	2008.7	1956.7
52.5°	3327.8	3267.6	3237.5	3207.4	3056.8	2903.6	2703.8	2504.0	2413.7	2323.4	2211.2
55°	3448.2	3374.3	3363.3	3349.7	3237.5	3122.5	2931.0	2739.4	2638.1	2534.1	2421.9
57.5°	3278.5	3284.0	3344.2	3404.4	3341.5	3278.5	3097.9	2917.3	2816.0	2714.8	2629.9
60°	3125.3	3166.3	3240.2	3314.1	3319.6	3322.3	3226.5	3130.7	3018.5	2906.3	2840.6
62.5°	2914.5	2944.6	3059.6	3171.8	3256.6	3338.7	3240.2	3141.7	3103.4	3062.3	3021.3
65°	2629.9	2638.1	2769.5	2898.1	3051.4	3201.9	3125.3	3048.6	3114.3	3177.3	3182.7
67.5°	2282.4	2307.0	2435.6	2564.2	2750.3	2933.7	2931.0	2928.2	3067.8	3204.6	3300.4
70°	1943.0	1943.0	2068.9	2194.8	2402.8	2610.8	2679.2	2747.6	2963.8	3180.0	3357.9
72.5°	1464.1	1532.5	1598.2	1663.9	1896.5	2126.4	2276.9	2427.4	2750.3	3070.5	3341.5
75°	807.3	812.8	870.3	927.7	1160.3	1393.0	1620.1	1847.2	2279.6	2712.0	3138.9
77.5°	265.5	257.2	290.1	320.2	457.0	591.1	782.7	974.2	1450.4	1926.6	2613.5
80°	147.8	150.5	161.5	172.4	216.2	257.2	350.3	443.3	645.9	845.6	1661.1
82.5°	98.5	101.3	112.2	123.1	142.3	161.5	213.5	262.7	281.9	298.3	749.8
85°	62.9	65.7	71.2	76.6	82.1	84.8	120.4	156.0	142.3	128.6	224.4
87.5°	13.7	13.7	16.4	16.4	19.2	21.9	27.4	32.8	30.1	24.6	32.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4
2.5°	859.3	864.8	867.5	870.3	873.0	878.5	881.2	883.9	889.4	892.1	892.1
5°	722.5	771.7	818.3	834.7	851.1	859.3	864.8	873.0	878.5	883.9	889.4
7.5°	689.6	692.4	695.1	714.3	733.4	749.8	766.3	771.7	785.4	777.2	766.3
10°	541.9	544.6	544.6	563.8	582.9	640.4	678.7	686.9	695.1	662.3	626.7
12.5°	506.3	520.0	533.6	525.4	517.2	558.3	585.6	596.6	602.1	580.2	558.3
15°	443.3	457.0	468.0	530.9	593.9	648.6	697.8	711.5	728.0	692.4	654.1
17.5°	525.4	520.0	511.8	522.7	533.6	547.3	574.7	582.9	582.9	593.9	604.8
20°	541.9	481.7	421.4	533.6	645.9	695.1	758.1	779.9	785.4	755.3	725.2
22.5°	487.1	555.5	624.0	610.3	596.6	582.9	582.9	591.1	599.3	604.8	610.3
25°	626.7	569.2	511.8	643.1	774.5	826.5	856.6	870.3	881.2	842.9	801.8
27.5°	574.7	651.3	725.2	782.7	840.2	897.6	960.6	1020.8	946.9	911.3	875.7
30°	741.6	804.6	867.5	1004.4	1141.2	1215.1	1253.4	1253.4	1253.4	1201.4	1146.7
32.5°	840.2	949.6	1059.1	1133.0	1204.1	1278.0	1308.1	1308.1	1308.1	1245.2	1179.5
35°	974.2	1061.8	1149.4	1234.2	1319.1	1376.5	1398.4	1390.2	1373.8	1289.0	1204.1
37.5°	1061.8	1179.5	1297.2	1384.7	1469.6	1505.2	1513.4	1488.7	1464.1	1351.9	1237.0
40°	1193.2	1321.8	1447.7	1540.7	1633.8	1663.9	1647.5	1614.6	1570.8	1420.3	1269.8
42.5°	1346.4	1475.1	1603.7	1713.1	1819.9	1839.0	1814.4	1762.4	1685.8	1480.5	1272.5
45°	1513.4	1642.0	1767.9	1891.0	2014.2	2027.9	1995.0	1918.4	1806.2	1538.0	1269.8
47.5°	1699.5	1800.7	1902.0	2077.1	2252.3	2235.8	2186.6	2099.0	1951.2	1606.4	1258.9
50°	1904.7	1984.1	2060.7	2279.6	2498.6	2449.3	2394.6	2298.8	2104.5	1685.8	1264.3
52.5°	2096.3	2172.9	2249.5	2476.7	2701.1	2654.6	2594.3	2509.5	2260.5	1770.6	1278.0
55°	2309.7	2391.8	2473.9	2714.8	2955.6	2876.2	2799.6	2744.9	2413.7	1841.8	1269.8
57.5°	2542.4	2646.3	2750.3	2972.0	3190.9	3106.1	3062.3	2991.2	2583.4	1926.6	1269.8
60°	2775.0	2900.9	3026.7	3221.0	3415.3	3346.9	3338.7	3240.2	2742.1	1989.5	1234.2
62.5°	2980.2	3169.0	3357.9	3511.1	3661.6	3596.0	3598.7	3483.8	2889.9	2003.2	1113.8
65°	3188.2	3431.8	3672.6	3784.8	3897.0	3850.5	3897.0	3691.7	2988.4	1948.5	908.6
67.5°	3393.5	3661.6	3929.8	4014.7	4099.5	4072.1	4126.9	3760.2	2966.5	1806.2	643.1
70°	3535.8	3820.4	4105.0	4148.8	4192.6	4187.1	4206.2	3675.3	2818.8	1622.8	424.2
72.5°	3612.4	3880.6	4146.0	4165.2	4181.6	4173.4	4094.0	3409.9	2553.3	1423.1	292.8
75°	3563.1	3823.1	4083.1	4044.8	4006.5	3929.8	3664.4	2936.4	2093.5	1154.9	216.2
77.5°	3300.4	3582.3	3864.2	3765.6	3664.4	3440.0	2993.9	2200.3	1455.9	812.8	166.9
80°	2476.7	2824.2	3171.8	3054.1	2933.7	2460.3	1822.6	1231.5	752.6	440.6	128.6
82.5°	1198.7	1393.0	1587.3	1557.2	1527.1	1130.2	788.2	443.3	216.2	158.7	101.3
85°	317.5	470.7	624.0	596.6	569.2	301.0	131.4	114.9	84.8	79.4	71.2
87.5°	38.3	43.8	46.5	32.8	16.4	13.7	13.7	8.2	8.2	10.9	10.9
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°	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4
2.5°	897.6	900.4	900.4	900.4	900.4	900.4	878.5	856.6	851.1	845.6	834.7
5°	864.8	837.4	818.3	799.1	799.1	796.4	804.6	812.8	818.3	821.0	823.7
7.5°	769.0	771.7	788.2	801.8	815.5	826.5	834.7	840.2	834.7	826.5	793.6
10°	629.4	632.2	645.9	656.8	676.0	692.4	738.9	782.7	834.7	886.7	900.4
12.5°	599.3	637.6	615.7	593.9	654.1	711.5	771.7	829.2	870.3	908.6	881.2
15°	610.3	566.5	574.7	582.9	656.8	730.7	686.9	640.4	749.8	859.3	883.9
17.5°	607.5	607.5	648.6	689.6	621.2	550.1	651.3	749.8	793.6	834.7	801.8
20°	648.6	569.2	599.3	626.7	681.4	733.4	689.6	645.9	662.3	678.7	785.4
22.5°	676.0	738.9	670.5	599.3	648.6	697.8	689.6	681.4	730.7	779.9	752.6
25°	706.1	607.5	656.8	703.3	648.6	591.1	634.9	676.0	662.3	648.6	733.4
27.5°	810.1	741.6	678.7	615.7	648.6	678.7	645.9	610.3	624.0	637.6	632.2
30°	979.7	810.1	730.7	651.3	610.3	566.5	569.2	572.0	588.4	604.8	651.3
32.5°	1023.5	867.5	752.6	637.6	610.3	582.9	558.3	530.9	555.5	580.2	634.9
35°	1034.5	862.0	738.9	615.7	572.0	528.2	511.8	495.3	536.4	577.4	626.7
37.5°	1029.0	818.3	686.9	555.5	522.7	489.9	481.7	470.7	498.1	522.7	558.3
40°	1015.3	760.8	629.4	498.1	470.7	443.3	437.9	432.4	451.5	470.7	492.6
42.5°	990.7	706.1	574.7	443.3	424.2	405.0	399.6	391.3	407.8	424.2	432.4
45°	960.6	651.3	528.2	402.3	388.6	372.2	364.0	353.0	369.4	383.1	385.9
47.5°	930.5	599.3	487.1	372.2	361.2	347.6	339.3	328.4	342.1	353.0	355.8
50°	905.8	544.6	443.3	342.1	331.1	320.2	312.0	303.8	317.5	328.4	328.4
52.5°	892.1	503.5	405.0	306.5	301.0	295.6	292.8	287.3	298.3	309.2	312.0
55°	859.3	446.1	361.2	273.7	276.4	276.4	273.7	268.2	290.1	309.2	317.5
57.5°	823.7	377.7	314.7	249.0	254.5	260.0	262.7	265.5	290.1	312.0	322.9
60°	777.2	320.2	273.7	227.1	235.4	240.8	254.5	265.5	287.3	309.2	314.7
62.5°	695.1	273.7	240.8	208.0	218.9	229.9	246.3	262.7	279.1	295.6	295.6
65°	574.7	238.1	216.2	191.6	208.0	221.7	240.8	260.0	273.7	284.6	281.9
67.5°	429.7	213.5	197.0	177.9	197.0	213.5	229.9	246.3	262.7	279.1	273.7
70°	309.2	191.6	180.6	166.9	183.4	199.8	216.2	232.6	249.0	265.5	262.7
72.5°	235.4	175.1	164.2	153.3	169.7	183.4	202.5	221.7	238.1	254.5	249.0
75°	188.8	158.7	150.5	139.6	156.0	172.4	191.6	208.0	224.4	240.8	235.4
77.5°	156.0	142.3	134.1	125.9	139.6	153.3	172.4	191.6	208.0	221.7	216.2
80°	125.9	120.4	114.9	106.7	123.1	136.8	156.0	172.4	186.1	199.8	191.6
82.5°	98.5	95.8	93.0	87.6	101.3	114.9	134.1	153.3	164.2	175.1	169.7
85°	73.9	73.9	71.2	68.4	79.4	87.6	98.5	106.7	117.7	125.9	120.4
87.5°	10.9	10.9	16.4	19.2	19.2	19.2	27.4	35.6	35.6	32.8	27.4
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°	889.4	889.4	889.4	889.4
2.5°	823.7	823.7	823.7	826.5
5°	826.5	829.2	829.2	834.7
7.5°	758.1	755.3	752.6	752.6
10°	911.3	916.8	919.5	925.0
12.5°	851.1	818.3	785.4	785.4
15°	908.6	914.0	916.8	922.3
17.5°	769.0	766.3	763.5	758.1
20°	889.4	894.9	897.6	897.6
22.5°	725.2	725.2	722.5	722.5
25°	818.3	818.3	818.3	823.7
27.5°	624.0	643.1	662.3	686.9
30°	697.8	700.6	703.3	703.3
32.5°	689.6	725.2	760.8	766.3
35°	676.0	676.0	673.2	676.0
37.5°	593.9	585.6	574.7	580.2
40°	511.8	492.6	473.4	470.7
42.5°	440.6	424.2	405.0	405.0
45°	388.6	377.7	364.0	358.5
47.5°	355.8	344.8	333.9	331.1
50°	325.7	314.7	303.8	303.8
52.5°	314.7	306.5	295.6	292.8
55°	325.7	309.2	292.8	287.3
57.5°	331.1	312.0	292.8	284.6
60°	317.5	306.5	292.8	281.9
62.5°	292.8	287.3	281.9	276.4
65°	276.4	276.4	273.7	268.2
67.5°	268.2	270.9	270.9	265.5
70°	257.2	262.7	265.5	260.0
72.5°	243.6	246.3	246.3	238.1
75°	227.1	224.4	221.7	216.2
77.5°	208.0	205.2	199.8	194.3
80°	183.4	180.6	177.9	169.7
82.5°	161.5	166.9	169.7	139.6
85°	112.2	101.3	90.3	73.9
87.5°	21.9	16.4	8.2	8.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)