

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: P559931

Luminaire Tested: **SDL-PA1-100-827-U-T4W-HSS-A**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P559931  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: SDL-PA1-100-827-U-T4W-HSS-A  
Description: Springdale  
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS, HOUSE SIDE SHEILD AND CLEAR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5145 lumens  
Efficiency: N/A  
Efficacy: 54.9 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: B1 - U3 - G2

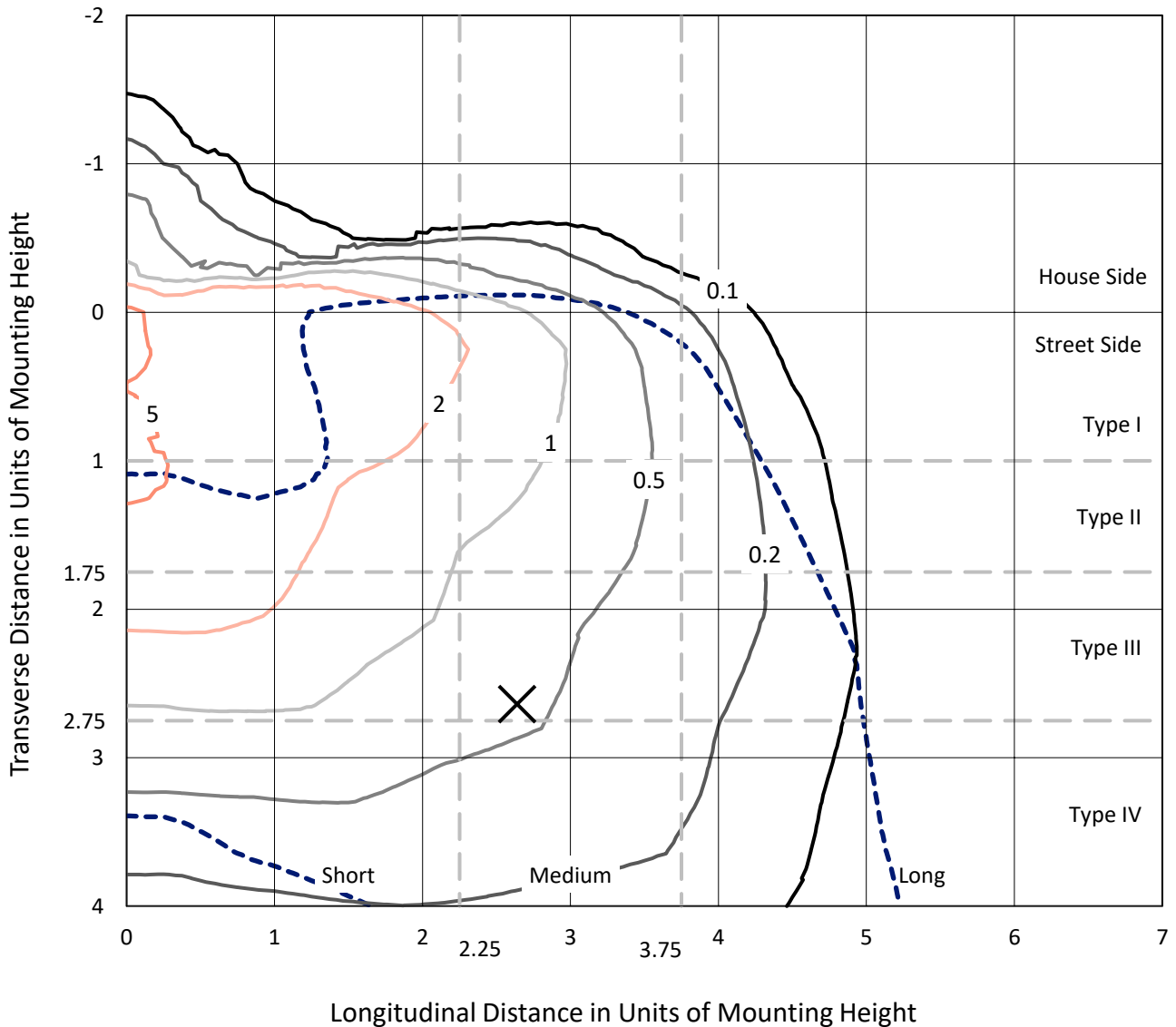
Input Watts (W): 93.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

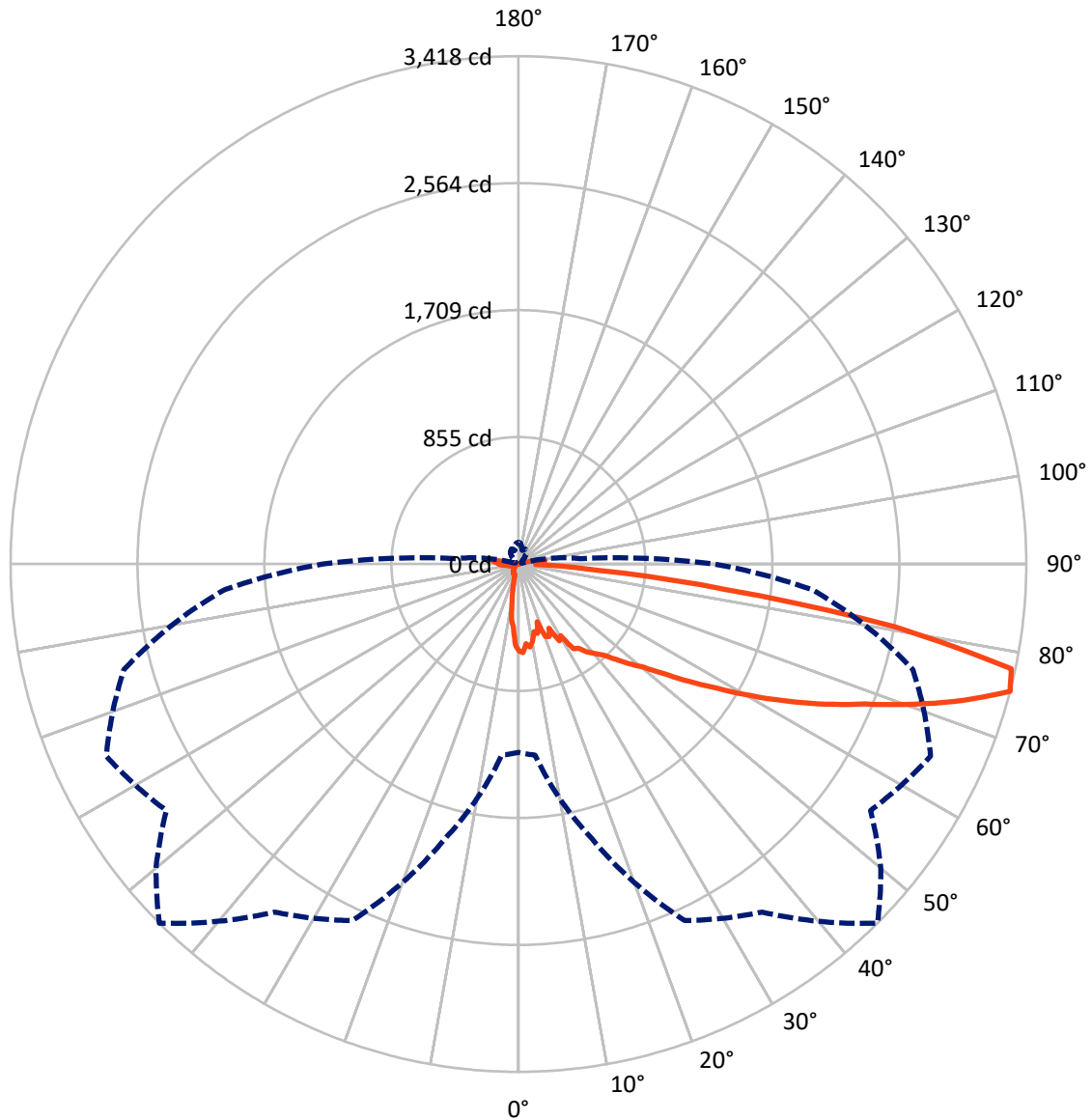
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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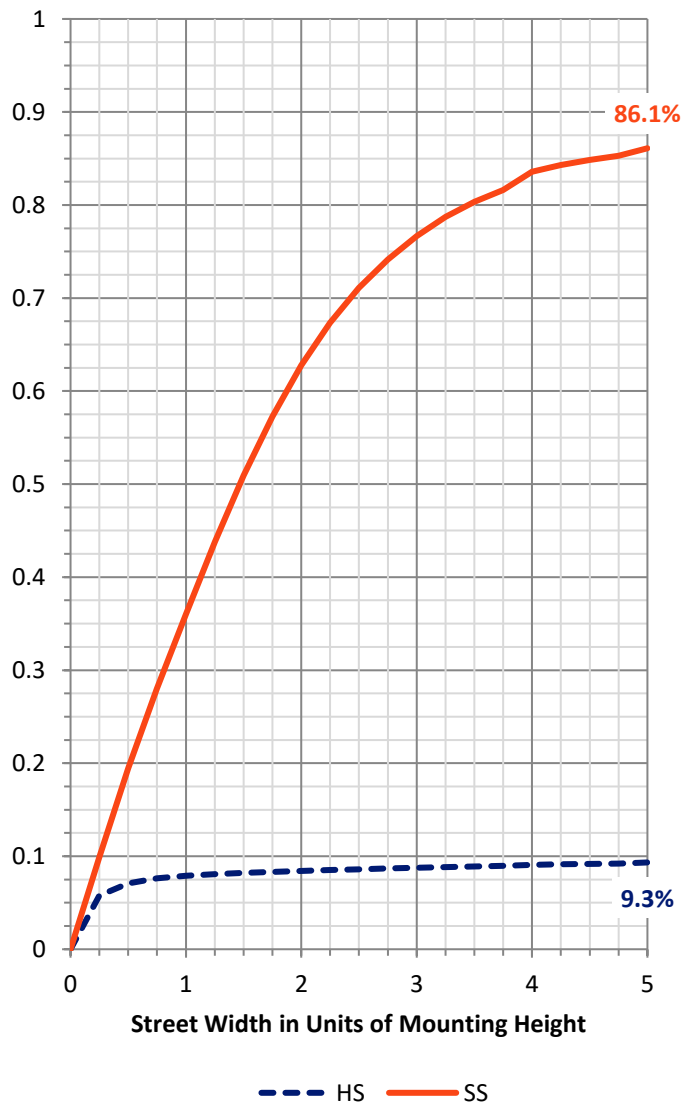
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	527.9	92.4	620.3
	% Fixture	10.3	1.8	12.1
<b>Street Side</b>	Lumens	4453.2	71.4	4524.7
	% Fixture	86.6	1.4	87.9
<b>Total</b>	Lumens	4981.2	163.9	5145.0
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.5	0.9
10°-20°	98.4	1.9
20°-30°	165.2	3.2
30°-40°	306.2	6.0
40°-50°	516.1	10.0
50°-60°	926.3	18.0
60°-70°	1390.8	27.0
70°-80°	1272.5	24.7
80°-90°	260.2	5.1
90°-100°	124.5	2.4
100°-110°	26.6	0.5
110°-120°	5.1	0.1
120°-130°	4.0	0.1
130°-140°	1.8	0.0
140°-150°	1.0	0.0
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4981.2	96.8
0°-180°	5145.0	100.0

**Coefficient of Utilization**



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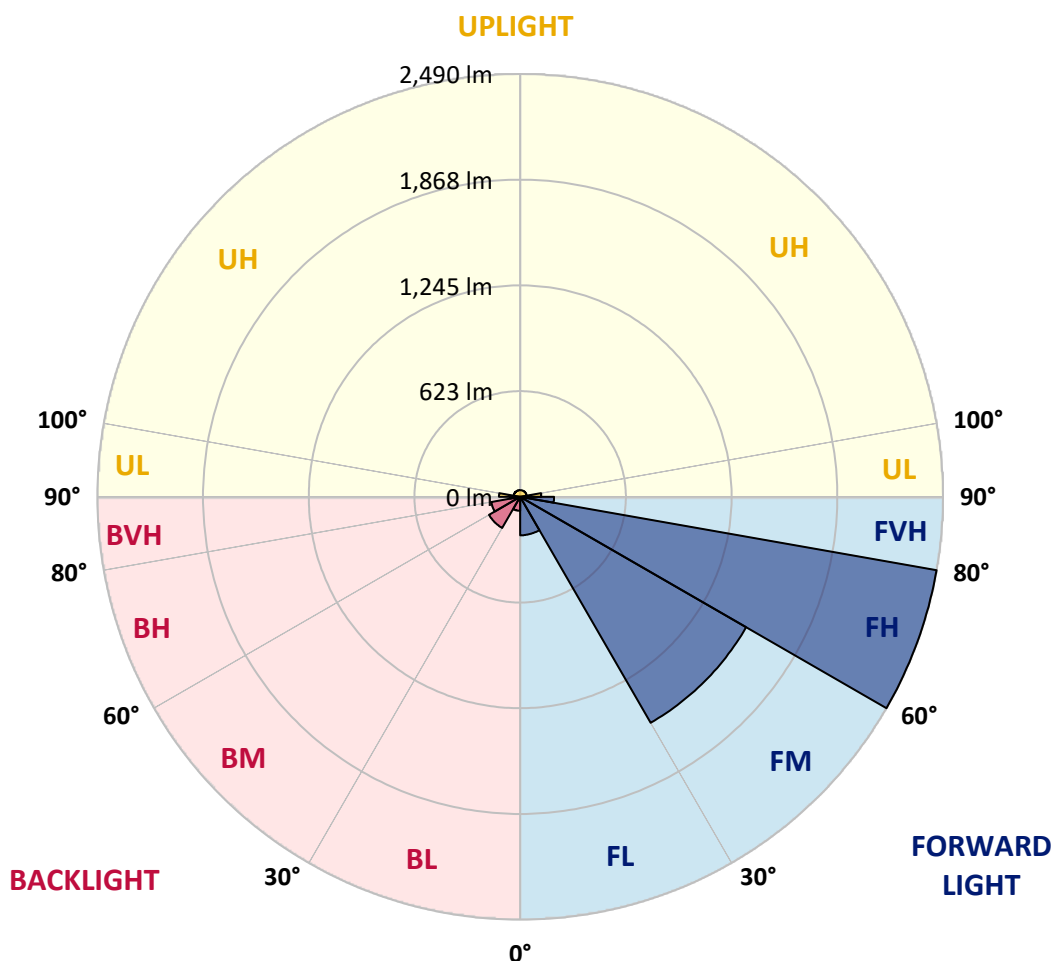
CATALOG NUMBER: SDL-PA1-100-827-U-T4W-HSS-A

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.7	4.4			
FM (30°-60°)	1536.8	29.9			
FH (60°-80°)	2490.3	48.4			G2/5000
FVH (80°-90°)	199.5	3.9			G2/225
BL (0°-30°)	82.4	1.6	B0/110		
BM (30°-60°)	211.8	4.1	B0/220		
BH (60°-80°)	173.0	3.4	B1/500		G1/500
BVH (80°-90°)	60.7	1.2			G1/100
UL (90°-100°)	124.5	2.4		U3/500	
UH (100°-180°)	39.4	0.8		U2/50	

**BUG Rating: B1-U3-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2
2.5°	569.7	597.2	589.0	602.7	600.0	597.2	597.2	600.0	597.2	591.7	586.2
5°	580.7	572.5	567.0	564.2	553.2	539.4	533.9	528.4	586.2	586.2	575.2
7.5°	597.2	597.2	586.2	578.0	578.0	564.2	550.4	539.4	511.9	503.7	503.7
10°	635.8	630.3	622.0	605.5	522.9	525.7	495.4	434.8	407.3	418.3	434.8
12.5°	644.0	641.3	630.3	627.5	550.4	467.9	388.1	434.8	415.6	346.8	385.3
15°	690.8	685.3	663.3	624.8	470.6	484.4	451.4	388.1	371.5	423.8	454.1
17.5°	589.0	589.0	660.5	605.5	511.9	407.3	404.6	451.4	407.3	379.8	377.1
20°	723.8	723.8	693.6	495.4	525.7	520.2	418.3	473.4	399.1	451.4	481.6
22.5°	602.7	600.0	622.0	613.7	503.7	531.2	429.3	432.1	476.1	407.3	349.5
25°	734.8	734.8	718.3	533.9	572.5	478.9	489.9	517.4	423.8	514.7	520.2
27.5°	633.0	630.3	600.0	611.0	533.9	586.2	445.9	487.1	520.2	555.9	611.0
30°	773.4	778.9	765.1	580.7	594.5	558.7	531.2	564.2	630.3	740.3	776.1
32.5°	955.0	960.5	814.7	699.1	597.2	679.8	569.7	622.0	723.8	776.1	814.7
35°	1062.4	1021.1	957.8	781.6	644.0	696.3	655.0	663.3	754.1	836.7	864.2
37.5°	1153.2	1098.1	1023.8	806.4	679.8	751.4	682.5	693.6	817.4	891.7	927.5
40°	1183.4	1150.4	1109.1	861.4	723.8	792.6	715.6	740.3	878.0	963.3	1018.3
42.5°	1257.8	1260.5	1235.7	938.5	770.6	836.7	770.6	787.1	957.8	1062.4	1142.2
45°	1455.9	1461.4	1433.9	1070.6	828.4	913.7	858.7	866.9	1048.6	1213.7	1315.6
47.5°	1709.1	1689.9	1662.3	1246.7	916.5	1001.8	960.5	952.3	1155.9	1411.9	1502.7
50°	1965.1	1929.3	1871.5	1488.9	1067.9	1092.6	1065.1	1059.6	1285.3	1615.5	1714.6
52.5°	2232.0	2204.5	2083.4	1717.4	1293.5	1224.7	1194.5	1224.7	1453.2	1841.2	1932.0
55°	2372.4	2344.9	2267.8	1962.3	1511.0	1395.4	1343.1	1398.1	1711.9	2053.1	2171.5
57.5°	2488.0	2479.7	2444.0	2218.3	1775.2	1577.0	1524.7	1577.0	1918.3	2251.3	2391.7
60°	2653.1	2620.1	2653.1	2466.0	2031.1	1799.9	1728.4	1783.4	2171.5	2424.7	2633.9
62.5°	2771.5	2763.2	2829.3	2743.9	2245.8	2033.9	1929.3	1981.6	2394.4	2609.1	2873.3
65°	2644.9	2686.2	2950.4	2925.6	2488.0	2273.3	2163.2	2146.7	2576.1	2807.2	3129.3
67.5°	2419.2	2446.7	2832.0	3019.2	2699.9	2515.5	2383.4	2306.3	2743.9	2986.1	3332.9
70°	2204.5	2237.5	2589.8	3024.7	2801.7	2826.5	2642.1	2499.0	2911.8	3187.1	3377.0
72.5°	2033.9	2064.2	2380.7	2958.6	2837.5	3137.5	2925.6	2702.7	3074.2	3192.6	2950.4
75°	1268.8	1290.8	1915.5	2647.6	2859.5	3418.2	3184.3	2892.6	3060.5	2749.5	1984.3
77.5°	390.8	399.1	820.2	1747.7	2485.2	3390.7	3140.3	2719.2	2565.1	1744.9	905.5
80°	134.9	137.6	211.9	622.0	1486.2	2573.3	2394.4	2000.9	1533.0	644.0	341.3
82.5°	63.3	68.8	99.1	209.2	605.5	1406.4	1414.6	1189.0	644.0	286.2	231.2
85°	22.0	22.0	41.3	90.8	233.9	542.2	514.7	478.9	338.5	258.7	214.7
87.5°	8.3	8.3	13.8	24.8	57.8	115.6	145.9	178.9	178.9	181.6	217.4
90°	8.3	8.3	5.5	5.5	41.3	121.1	145.9	162.4	148.6	165.1	236.7
92.5°	8.3	8.3	5.5	5.5	44.0	140.4	162.4	176.1	156.9	176.1	261.5
95°	8.3	8.3	5.5	5.5	49.5	170.6	189.9	187.1	156.9	184.4	280.7
97.5°	11.0	11.0	5.5	2.8	44.0	181.6	203.7	198.2	134.9	140.4	220.2
100°	11.0	11.0	5.5	2.8	27.5	134.9	162.4	159.6	88.1	22.0	63.3
102.5°	11.0	11.0	5.5	2.8	5.5	63.3	77.1	79.8	52.3	8.3	11.0
105°	13.8	13.8	5.5	2.8	2.8	11.0	24.8	33.0	19.3	5.5	11.0
107.5°	13.8	13.8	5.5	2.8	2.8	5.5	5.5	8.3	8.3	5.5	13.8
110°	13.8	13.8	5.5	5.5	2.8	2.8	2.8	2.8	5.5	5.5	13.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	11.0	11.0	2.8	5.5	2.8	2.8	2.8	2.8	2.8	5.5	13.8
115°	5.5	5.5	2.8	2.8	0.0	2.8	2.8	2.8	2.8	5.5	11.0
117.5°	2.8	2.8	0.0	2.8	0.0	2.8	2.8	2.8	5.5	5.5	13.8
120°	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	8.3	16.5
122.5°	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	8.3	16.5
125°	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	8.3	16.5
127.5°	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	8.3	13.8
130°	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	5.5	11.0
132.5°	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	5.5	8.3
135°	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	5.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
140°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
145°	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8
147.5°	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
150°	8.3	8.3	5.5	2.8	0.0	0.0	2.8	2.8	2.8	2.8	2.8
152.5°	5.5	5.5	8.3	2.8	0.0	0.0	2.8	2.8	5.5	2.8	2.8
155°	5.5	5.5	2.8	0.0	0.0	0.0	0.0	2.8	2.8	5.5	5.5
157.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2	586.2
2.5°	580.7	578.0	569.7	564.2	555.9	547.7	506.4	481.6	478.9	476.1	478.9
5°	569.7	561.4	547.7	484.4	454.1	426.6	418.3	412.8	399.1	399.1	401.8
7.5°	492.6	487.1	443.1	423.8	399.1	374.3	352.3	335.8	294.5	280.7	275.2
10°	432.1	421.1	344.0	305.5	280.7	253.2	253.2	231.2	220.2	211.9	209.2
12.5°	374.3	366.0	302.7	278.0	209.2	181.6	167.9	154.1	145.9	140.4	137.6
15°	437.6	423.8	324.8	222.9	154.1	129.4	101.8	99.1	123.8	129.4	132.1
17.5°	349.5	357.8	289.0	195.4	126.6	79.8	88.1	104.6	118.3	118.3	115.6
20°	465.1	445.9	313.8	156.9	90.8	79.8	85.3	77.1	110.1	118.3	118.3
22.5°	338.5	322.0	258.7	145.9	71.6	77.1	71.6	90.8	101.8	90.8	93.6
25°	503.7	478.9	300.0	101.8	74.3	66.1	82.6	71.6	99.1	107.3	110.1
27.5°	624.8	542.2	294.5	96.3	66.1	74.3	68.8	82.6	79.8	85.3	85.3
30°	745.8	699.1	333.0	88.1	66.1	63.3	71.6	71.6	90.8	99.1	99.1
32.5°	798.1	743.1	291.7	85.3	66.1	63.3	63.3	77.1	85.3	101.8	101.8
35°	853.2	778.9	244.9	79.8	63.3	60.5	60.5	77.1	90.8	101.8	104.6
37.5°	927.5	817.4	198.2	77.1	60.5	57.8	52.3	68.8	96.3	107.3	110.1
40°	1021.1	872.4	154.1	71.6	55.0	52.3	49.5	68.8	82.6	96.3	96.3
42.5°	1166.9	933.0	121.1	68.8	52.3	46.8	46.8	57.8	79.8	90.8	90.8
45°	1315.6	1004.6	101.8	66.1	49.5	44.0	44.0	57.8	60.5	77.1	77.1
47.5°	1480.7	1076.1	93.6	63.3	49.5	38.5	38.5	52.3	52.3	71.6	74.3
50°	1651.3	1136.7	88.1	60.5	44.0	35.8	44.0	35.8	44.0	68.8	74.3
52.5°	1799.9	1186.2	82.6	55.0	41.3	33.0	41.3	35.8	44.0	63.3	63.3
55°	1951.3	1213.7	79.8	52.3	38.5	27.5	41.3	38.5	41.3	57.8	57.8
57.5°	2086.2	1222.0	77.1	52.3	33.0	24.8	38.5	46.8	35.8	46.8	52.3
60°	2207.3	1213.7	68.8	46.8	24.8	24.8	41.3	55.0	49.5	55.0	55.0
62.5°	2320.1	1183.4	55.0	38.5	19.3	24.8	52.3	60.5	46.8	57.8	63.3
65°	2416.4	1142.2	41.3	30.3	13.8	27.5	55.0	68.8	55.0	66.1	71.6
67.5°	2460.5	1087.1	33.0	24.8	13.8	30.3	57.8	77.1	63.3	74.3	79.8
70°	2386.2	974.3	27.5	24.8	11.0	35.8	60.5	82.6	71.6	93.6	96.3
72.5°	1981.6	765.1	24.8	24.8	19.3	44.0	77.1	93.6	88.1	126.6	123.8
75°	1312.8	418.3	24.8	22.0	24.8	52.3	93.6	110.1	96.3	143.1	143.1
77.5°	605.5	184.4	22.0	24.8	27.5	57.8	107.3	132.1	110.1	162.4	159.6
80°	264.2	112.8	22.0	22.0	30.3	63.3	121.1	148.6	121.1	178.9	178.9
82.5°	198.2	101.8	19.3	22.0	41.3	71.6	140.4	165.1	134.9	192.7	189.9
85°	184.4	96.3	22.0	24.8	46.8	90.8	165.1	178.9	140.4	198.2	198.2
87.5°	187.1	93.6	22.0	24.8	63.3	115.6	187.1	192.7	154.1	209.2	209.2
90°	192.7	96.3	24.8	27.5	71.6	126.6	209.2	206.4	173.4	220.2	220.2
92.5°	206.4	96.3	27.5	30.3	77.1	140.4	228.4	211.9	187.1	228.4	222.9
95°	214.7	96.3	30.3	33.0	90.8	154.1	242.2	206.4	198.2	211.9	206.4
97.5°	159.6	71.6	35.8	38.5	93.6	173.4	222.9	176.1	129.4	126.6	129.4
100°	52.3	24.8	38.5	41.3	60.5	121.1	165.1	126.6	68.8	52.3	52.3
102.5°	13.8	13.8	35.8	38.5	33.0	52.3	96.3	82.6	46.8	2.8	5.5
105°	13.8	11.0	22.0	30.3	19.3	13.8	38.5	46.8	35.8	2.8	2.8
107.5°	13.8	11.0	11.0	16.5	5.5	5.5	11.0	11.0	11.0	2.8	2.8
110°	13.8	11.0	5.5	5.5	5.5	5.5	5.5	2.8	2.8	5.5	5.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	16.5	11.0	5.5	5.5	5.5	2.8	2.8	2.8	2.8	8.3	11.0
115°	13.8	11.0	2.8	5.5	2.8	2.8	2.8	2.8	5.5	11.0	13.8
117.5°	13.8	11.0	2.8	2.8	2.8	2.8	2.8	2.8	5.5	13.8	16.5
120°	16.5	13.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	16.5	16.5
122.5°	16.5	13.8	2.8	2.8	2.8	2.8	0.0	2.8	8.3	16.5	16.5
125°	16.5	13.8	2.8	2.8	2.8	0.0	0.0	2.8	8.3	16.5	19.3
127.5°	13.8	11.0	2.8	2.8	2.8	0.0	0.0	2.8	5.5	13.8	16.5
130°	11.0	8.3	2.8	2.8	2.8	0.0	0.0	0.0	5.5	13.8	13.8
132.5°	8.3	5.5	2.8	2.8	2.8	0.0	0.0	0.0	5.5	11.0	11.0
135°	5.5	5.5	2.8	2.8	2.8	0.0	0.0	0.0	2.8	8.3	8.3
137.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	2.8	2.8	2.8
140°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	5.5	5.5	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)