

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: P561163

Luminaire Tested: **SDL-PA1-80-827-U-T4W-HSS-A**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P561163  
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-PA1-80-827-U-T4W-HSS-A  
Description: Springdale  
(1) 80 CRI, 2700K, 1050mA 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: 4652.2 lumens  
Efficiency: N/A  
Efficacy: 56.7 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

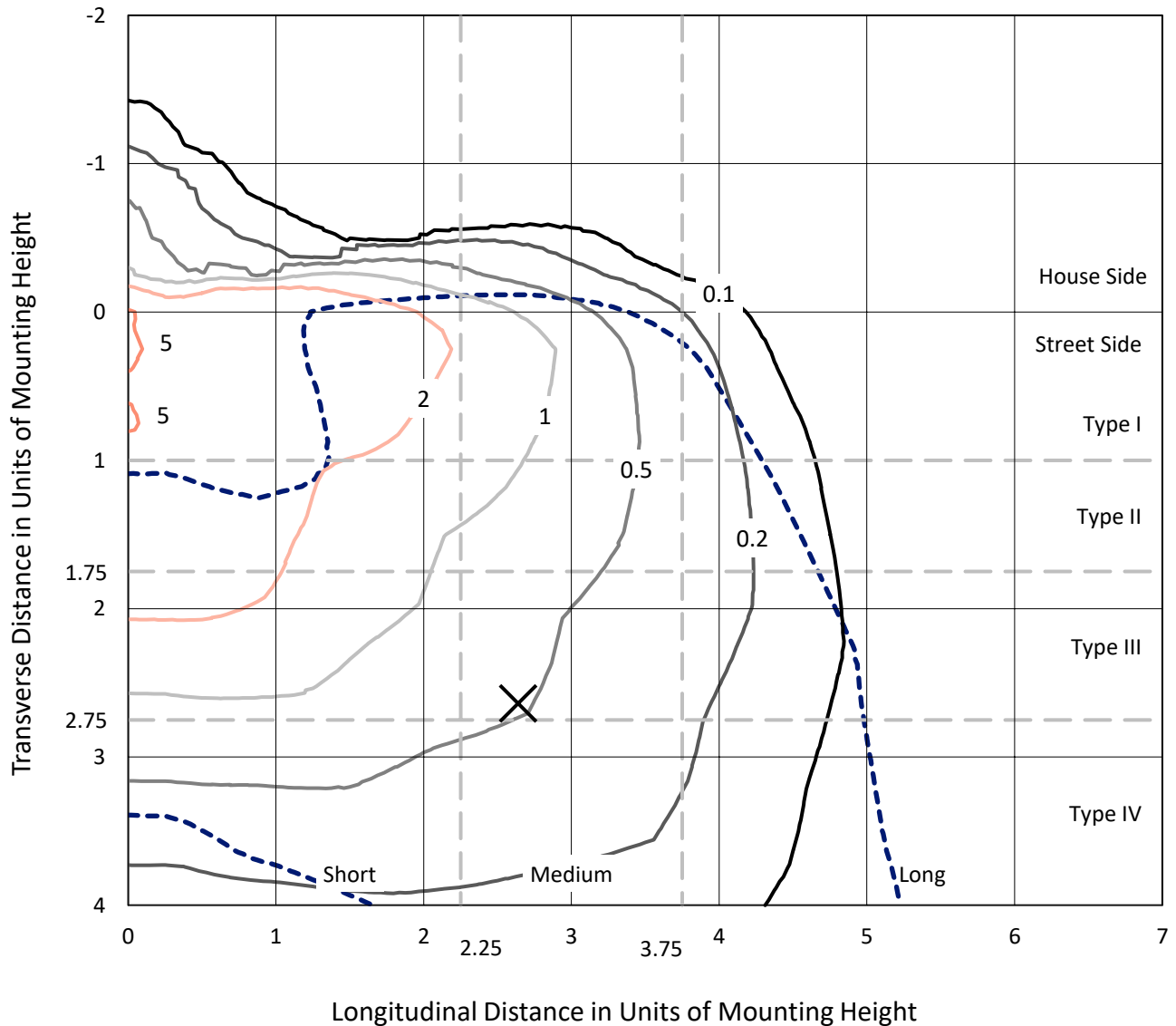
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

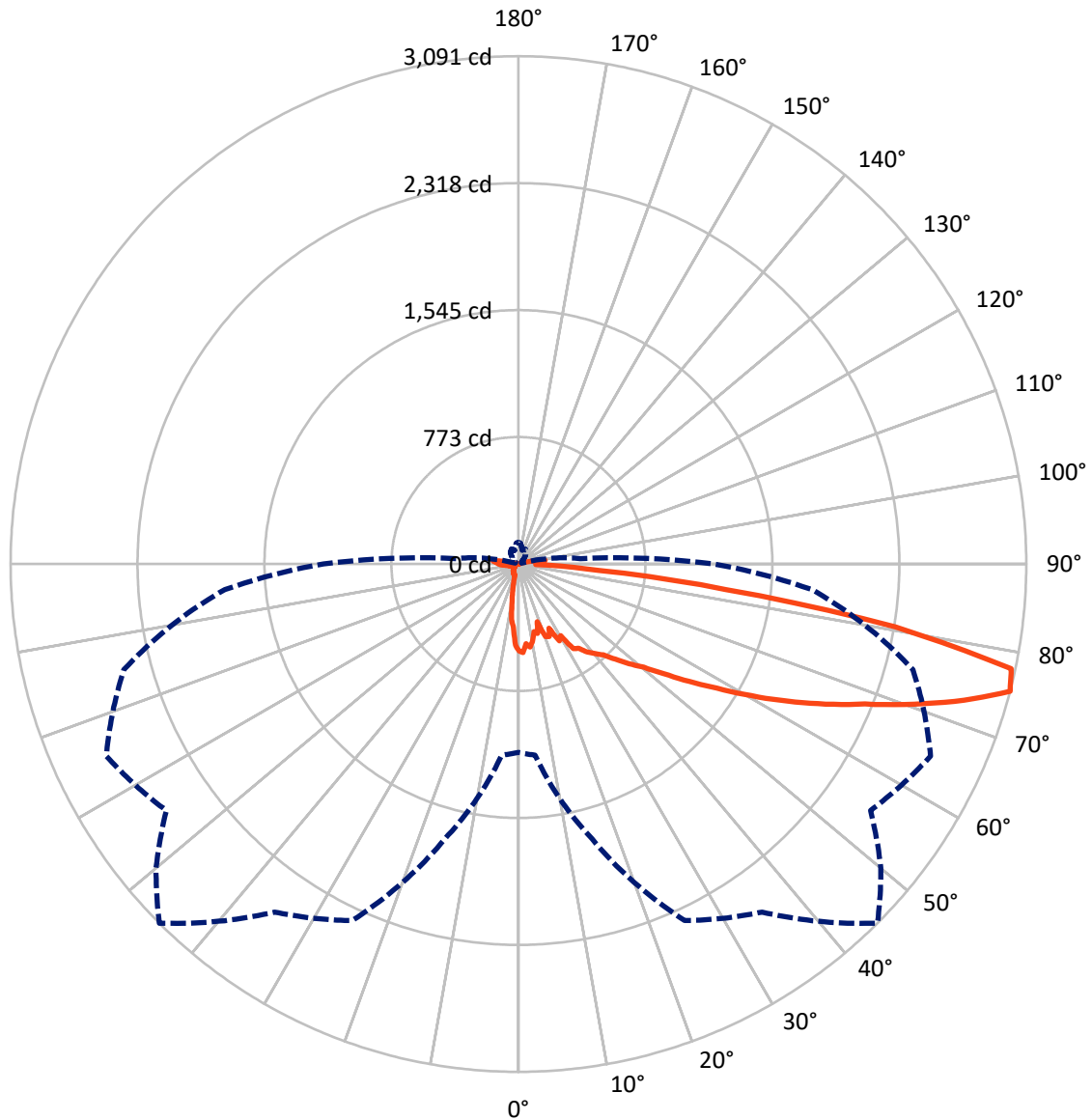
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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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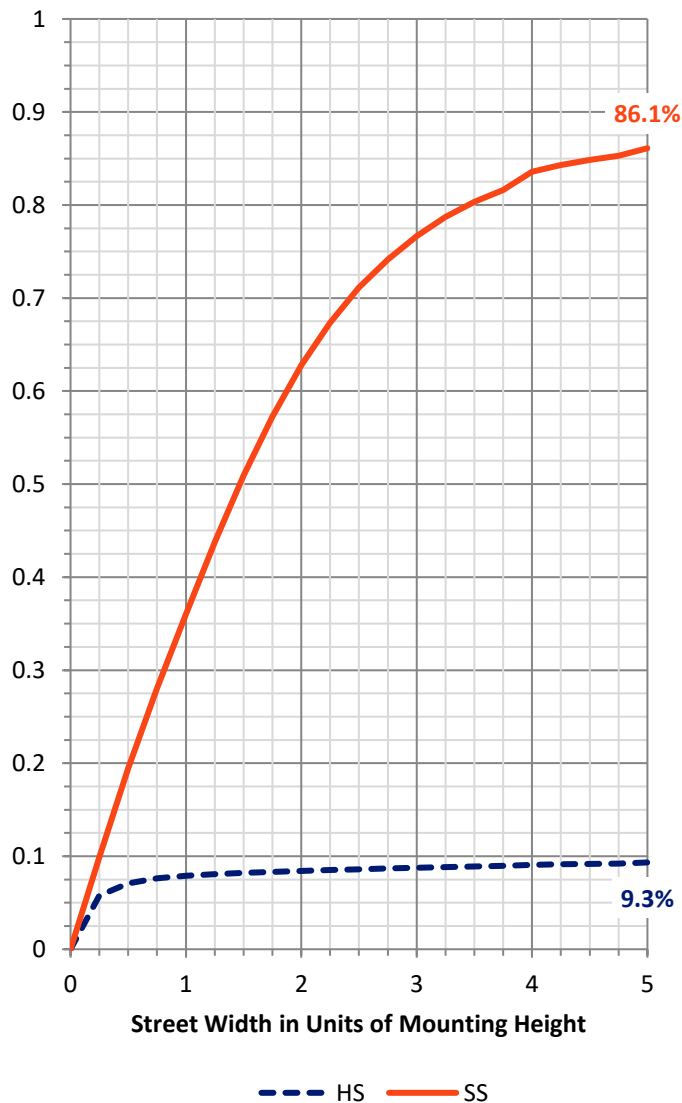
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	477.4	83.5	560.9
	% Fixture	10.3	1.8	12.1
<b>Street Side</b>	Lumens	4026.7	64.6	4091.3
	% Fixture	86.6	1.4	87.9
<b>Total</b>	Lumens	4504.1	148.1	4652.2
	% Fixture	96.8	3.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.1	0.9
10°-20°	89.0	1.9
20°-30°	149.3	3.2
30°-40°	276.9	6.0
40°-50°	466.7	10.0
50°-60°	837.6	18.0
60°-70°	1257.6	27.0
70°-80°	1150.6	24.7
80°-90°	235.2	5.1
90°-100°	112.6	2.4
100°-110°	24.0	0.5
110°-120°	4.6	0.1
120°-130°	3.6	0.1
130°-140°	1.6	0.0
140°-150°	0.9	0.0
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4504.1	96.8
0°-180°	4652.2	100.0

**Coefficient of Utilization**



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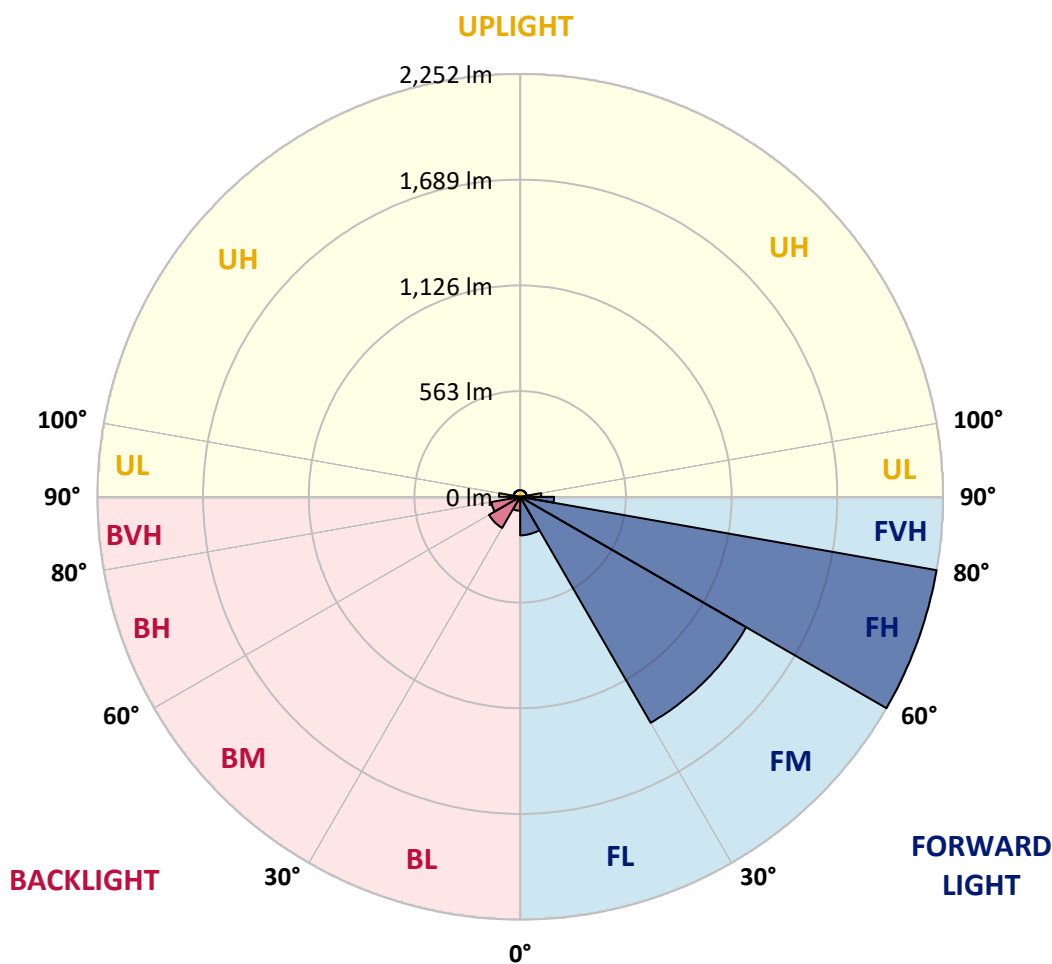
CATALOG NUMBER: SDL-PA1-80-827-U-T4W-HSS-A

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.0	4.4			
FM (30°-60°)	1389.6	29.9			
FH (60°-80°)	2251.8	48.4			G2/5000
FVH (80°-90°)	180.4	3.9			G2/225
BL (0°-30°)	74.5	1.6	B0/110		
BM (30°-60°)	191.5	4.1	B0/220		
BH (60°-80°)	156.4	3.4	B1/500		G1/500
BVH (80°-90°)	54.9	1.2			G1/100
UL (90°-100°)	112.6	2.4		U3/500	
UH (100°-180°)	35.5	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°	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1
2.5°	515.1	540.0	532.6	545.0	542.5	540.0	540.0	542.5	540.0	535.1	530.1
5°	525.1	517.6	512.7	510.2	500.2	487.8	482.8	477.8	530.1	530.1	520.1
7.5°	540.0	540.0	530.1	522.6	522.6	510.2	497.7	487.8	462.9	455.4	455.4
10°	574.9	569.9	562.4	547.5	472.8	475.3	448.0	393.2	368.3	378.3	393.2
12.5°	582.3	579.9	569.9	567.4	497.7	423.1	350.9	393.2	375.8	313.6	348.4
15°	624.6	619.7	599.8	564.9	425.6	438.0	408.1	350.9	336.0	383.2	410.6
17.5°	532.6	532.6	597.3	547.5	462.9	368.3	365.8	408.1	368.3	343.4	340.9
20°	654.5	654.5	627.1	448.0	475.3	470.4	378.3	428.0	360.9	408.1	435.5
22.5°	545.0	542.5	562.4	555.0	455.4	480.3	388.2	390.7	430.5	368.3	316.1
25°	664.5	664.5	649.5	482.8	517.6	433.0	443.0	467.9	383.2	465.4	470.4
27.5°	572.4	569.9	542.5	552.5	482.8	530.1	403.2	440.5	470.4	502.7	552.5
30°	699.3	704.3	691.8	525.1	537.5	505.2	480.3	510.2	569.9	669.4	701.8
32.5°	863.6	868.5	736.6	632.1	540.0	614.7	515.1	562.4	654.5	701.8	736.6
35°	960.6	923.3	866.0	706.8	582.3	629.6	592.3	599.8	681.9	756.5	781.4
37.5°	1042.7	993.0	925.8	729.2	614.7	679.4	617.2	627.1	739.1	806.3	838.7
40°	1070.1	1040.2	1002.9	778.9	654.5	716.7	647.0	669.4	793.9	871.0	920.8
42.5°	1137.3	1139.8	1117.4	848.6	696.8	756.5	696.8	711.7	866.0	960.6	1032.8
45°	1316.5	1321.5	1296.6	968.1	749.1	826.2	776.5	783.9	948.2	1097.5	1189.6
47.5°	1545.4	1528.0	1503.1	1127.3	828.7	905.9	868.5	861.1	1045.2	1276.7	1358.8
50°	1776.9	1744.5	1692.3	1346.3	965.6	988.0	963.1	958.1	1162.2	1460.8	1550.4
52.5°	2018.3	1993.4	1883.9	1552.9	1169.7	1107.4	1080.1	1107.4	1314.0	1664.9	1747.0
55°	2145.2	2120.3	2050.6	1774.4	1366.3	1261.7	1214.5	1264.2	1547.9	1856.5	1963.5
57.5°	2249.7	2242.3	2209.9	2005.8	1605.2	1426.0	1378.7	1426.0	1734.6	2035.7	2162.6
60°	2399.0	2369.2	2399.0	2229.8	1836.6	1627.6	1562.9	1612.6	1963.5	2192.5	2381.6
62.5°	2506.0	2498.6	2558.3	2481.2	2030.7	1839.1	1744.5	1791.8	2165.1	2359.2	2598.1
65°	2391.6	2428.9	2667.8	2645.4	2249.7	2055.6	1956.1	1941.1	2329.4	2538.4	2829.6
67.5°	2187.5	2212.4	2560.8	2730.0	2441.3	2274.6	2155.2	2085.5	2481.2	2700.2	3013.7
70°	1993.4	2023.3	2341.8	2735.0	2533.4	2555.8	2389.1	2259.7	2633.0	2881.8	3053.5
72.5°	1839.1	1866.5	2152.7	2675.3	2565.8	2837.0	2645.4	2443.8	2779.8	2886.8	2667.8
75°	1147.3	1167.2	1732.1	2394.1	2585.7	3090.9	2879.3	2615.5	2767.4	2486.1	1794.3
77.5°	353.4	360.9	741.6	1580.3	2247.2	3066.0	2839.5	2458.8	2319.4	1577.8	818.8
80°	121.9	124.4	191.6	562.4	1343.9	2326.9	2165.1	1809.2	1386.2	582.3	308.6
82.5°	57.2	62.2	89.6	189.1	547.5	1271.7	1279.2	1075.1	582.3	258.8	209.0
85°	19.9	19.9	37.3	82.1	211.5	490.3	465.4	433.0	306.1	233.9	194.1
87.5°	7.5	7.5	12.4	22.4	52.3	104.5	131.9	161.8	161.8	164.2	196.6
90°	7.5	7.5	5.0	5.0	37.3	109.5	131.9	146.8	134.4	149.3	214.0
92.5°	7.5	7.5	5.0	5.0	39.8	126.9	146.8	159.3	141.9	159.3	236.4
95°	7.5	7.5	5.0	5.0	44.8	154.3	171.7	169.2	141.9	166.7	253.8
97.5°	10.0	10.0	5.0	2.5	39.8	164.2	184.2	179.2	121.9	126.9	199.1
100°	10.0	10.0	5.0	2.5	24.9	121.9	146.8	144.3	79.6	19.9	57.2
102.5°	10.0	10.0	5.0	2.5	5.0	57.2	69.7	72.2	47.3	7.5	10.0
105°	12.4	12.4	5.0	2.5	2.5	10.0	22.4	29.9	17.4	5.0	10.0
107.5°	12.4	12.4	5.0	2.5	2.5	5.0	5.0	7.5	7.5	5.0	12.4
110°	12.4	12.4	5.0	5.0	2.5	2.5	2.5	2.5	5.0	5.0	12.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	10.0	10.0	2.5	5.0	2.5	2.5	2.5	2.5	2.5	5.0	12.4
115°	5.0	5.0	2.5	2.5	0.0	2.5	2.5	2.5	2.5	5.0	10.0
117.5°	2.5	2.5	0.0	2.5	0.0	2.5	2.5	2.5	5.0	5.0	12.4
120°	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	7.5	14.9
122.5°	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	7.5	14.9
125°	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	7.5	14.9
127.5°	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	7.5	12.4
130°	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	5.0	10.0
132.5°	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	5.0	7.5
135°	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	5.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
140°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
145°	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
147.5°	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
150°	7.5	7.5	5.0	2.5	0.0	0.0	2.5	2.5	2.5	2.5	2.5
152.5°	5.0	5.0	7.5	2.5	0.0	0.0	2.5	2.5	5.0	2.5	2.5
155°	5.0	5.0	2.5	0.0	0.0	0.0	0.0	2.5	2.5	5.0	5.0
157.5°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
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°	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1
2.5°	525.1	522.6	515.1	510.2	502.7	495.2	457.9	435.5	433.0	430.5	433.0
5°	515.1	507.7	495.2	438.0	410.6	385.7	378.3	373.3	360.9	360.9	363.3
7.5°	445.5	440.5	400.7	383.2	360.9	338.5	318.5	303.6	266.3	253.8	248.9
10°	390.7	380.8	311.1	276.2	253.8	229.0	229.0	209.0	199.1	191.6	189.1
12.5°	338.5	331.0	273.7	251.4	189.1	164.2	151.8	139.4	131.9	126.9	124.4
15°	395.7	383.2	293.7	201.6	139.4	117.0	92.1	89.6	112.0	117.0	119.5
17.5°	316.1	323.5	261.3	176.7	114.5	72.2	79.6	94.6	107.0	107.0	104.5
20°	420.6	403.2	283.7	141.9	82.1	72.2	77.1	69.7	99.5	107.0	107.0
22.5°	306.1	291.2	233.9	131.9	64.7	69.7	64.7	82.1	92.1	82.1	84.6
25°	455.4	433.0	271.3	92.1	67.2	59.7	74.7	64.7	89.6	97.1	99.5
27.5°	564.9	490.3	266.3	87.1	59.7	67.2	62.2	74.7	72.2	77.1	77.1
30°	674.4	632.1	301.1	79.6	59.7	57.2	64.7	64.7	82.1	89.6	89.6
32.5°	721.7	671.9	263.8	77.1	59.7	57.2	57.2	69.7	77.1	92.1	92.1
35°	771.5	704.3	221.5	72.2	57.2	54.7	54.7	69.7	82.1	92.1	94.6
37.5°	838.7	739.1	179.2	69.7	54.7	52.3	47.3	62.2	87.1	97.1	99.5
40°	923.3	788.9	139.4	64.7	49.8	47.3	44.8	62.2	74.7	87.1	87.1
42.5°	1055.2	843.6	109.5	62.2	47.3	42.3	42.3	52.3	72.2	82.1	82.1
45°	1189.6	908.3	92.1	59.7	44.8	39.8	39.8	52.3	54.7	69.7	69.7
47.5°	1338.9	973.1	84.6	57.2	44.8	34.8	34.8	47.3	47.3	64.7	67.2
50°	1493.2	1027.8	79.6	54.7	39.8	32.4	39.8	32.4	39.8	62.2	67.2
52.5°	1627.6	1072.6	74.7	49.8	37.3	29.9	37.3	32.4	39.8	57.2	57.2
55°	1764.4	1097.5	72.2	47.3	34.8	24.9	37.3	34.8	37.3	52.3	52.3
57.5°	1886.4	1105.0	69.7	47.3	29.9	22.4	34.8	42.3	32.4	42.3	47.3
60°	1995.9	1097.5	62.2	42.3	22.4	22.4	37.3	49.8	44.8	49.8	49.8
62.5°	2097.9	1070.1	49.8	34.8	17.4	22.4	47.3	54.7	42.3	52.3	57.2
65°	2185.0	1032.8	37.3	27.4	12.4	24.9	49.8	62.2	49.8	59.7	64.7
67.5°	2224.8	983.0	29.9	22.4	12.4	27.4	52.3	69.7	57.2	67.2	72.2
70°	2157.6	881.0	24.9	22.4	10.0	32.4	54.7	74.7	64.7	84.6	87.1
72.5°	1791.8	691.8	22.4	22.4	17.4	39.8	69.7	84.6	79.6	114.5	112.0
75°	1187.1	378.3	22.4	19.9	22.4	47.3	84.6	99.5	87.1	129.4	129.4
77.5°	547.5	166.7	19.9	22.4	24.9	52.3	97.1	119.5	99.5	146.8	144.3
80°	238.9	102.0	19.9	19.9	27.4	57.2	109.5	134.4	109.5	161.8	161.8
82.5°	179.2	92.1	17.4	19.9	37.3	64.7	126.9	149.3	121.9	174.2	171.7
85°	166.7	87.1	19.9	22.4	42.3	82.1	149.3	161.8	126.9	179.2	179.2
87.5°	169.2	84.6	19.9	22.4	57.2	104.5	169.2	174.2	139.4	189.1	189.1
90°	174.2	87.1	22.4	24.9	64.7	114.5	189.1	186.6	156.8	199.1	199.1
92.5°	186.6	87.1	24.9	27.4	69.7	126.9	206.6	191.6	169.2	206.6	201.6
95°	194.1	87.1	27.4	29.9	82.1	139.4	219.0	186.6	179.2	191.6	186.6
97.5°	144.3	64.7	32.4	34.8	84.6	156.8	201.6	159.3	117.0	114.5	117.0
100°	47.3	22.4	34.8	37.3	54.7	109.5	149.3	114.5	62.2	47.3	47.3
102.5°	12.4	12.4	32.4	34.8	29.9	47.3	87.1	74.7	42.3	2.5	5.0
105°	12.4	10.0	19.9	27.4	17.4	12.4	34.8	42.3	32.4	2.5	2.5
107.5°	12.4	10.0	10.0	14.9	5.0	5.0	10.0	10.0	10.0	2.5	2.5
110°	12.4	10.0	5.0	5.0	5.0	5.0	5.0	2.5	2.5	5.0	5.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	14.9	10.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	7.5	10.0
115°	12.4	10.0	2.5	5.0	2.5	2.5	2.5	2.5	5.0	10.0	12.4
117.5°	12.4	10.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0	12.4	14.9
120°	14.9	12.4	2.5	2.5	2.5	2.5	2.5	2.5	5.0	14.9	14.9
122.5°	14.9	12.4	2.5	2.5	2.5	2.5	0.0	2.5	7.5	14.9	14.9
125°	14.9	12.4	2.5	2.5	2.5	0.0	0.0	2.5	7.5	14.9	17.4
127.5°	12.4	10.0	2.5	2.5	2.5	0.0	0.0	2.5	5.0	12.4	14.9
130°	10.0	7.5	2.5	2.5	2.5	0.0	0.0	0.0	5.0	12.4	12.4
132.5°	7.5	5.0	2.5	2.5	2.5	0.0	0.0	0.0	5.0	10.0	10.0
135°	5.0	5.0	2.5	2.5	2.5	0.0	0.0	0.0	2.5	7.5	7.5
137.5°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	2.5	2.5	2.5
140°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	5.0	5.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.5	2.5	2.5	2.5	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)