

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: P561166

Luminaire Tested: **SDL-PA1-80-830-U-5WQ-A**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P561166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: SDL-PA1-80-830-U-5WQ-A  
Description: Springdale  
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7148.6 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short  
BUG Rating: B3 - U3 - G3

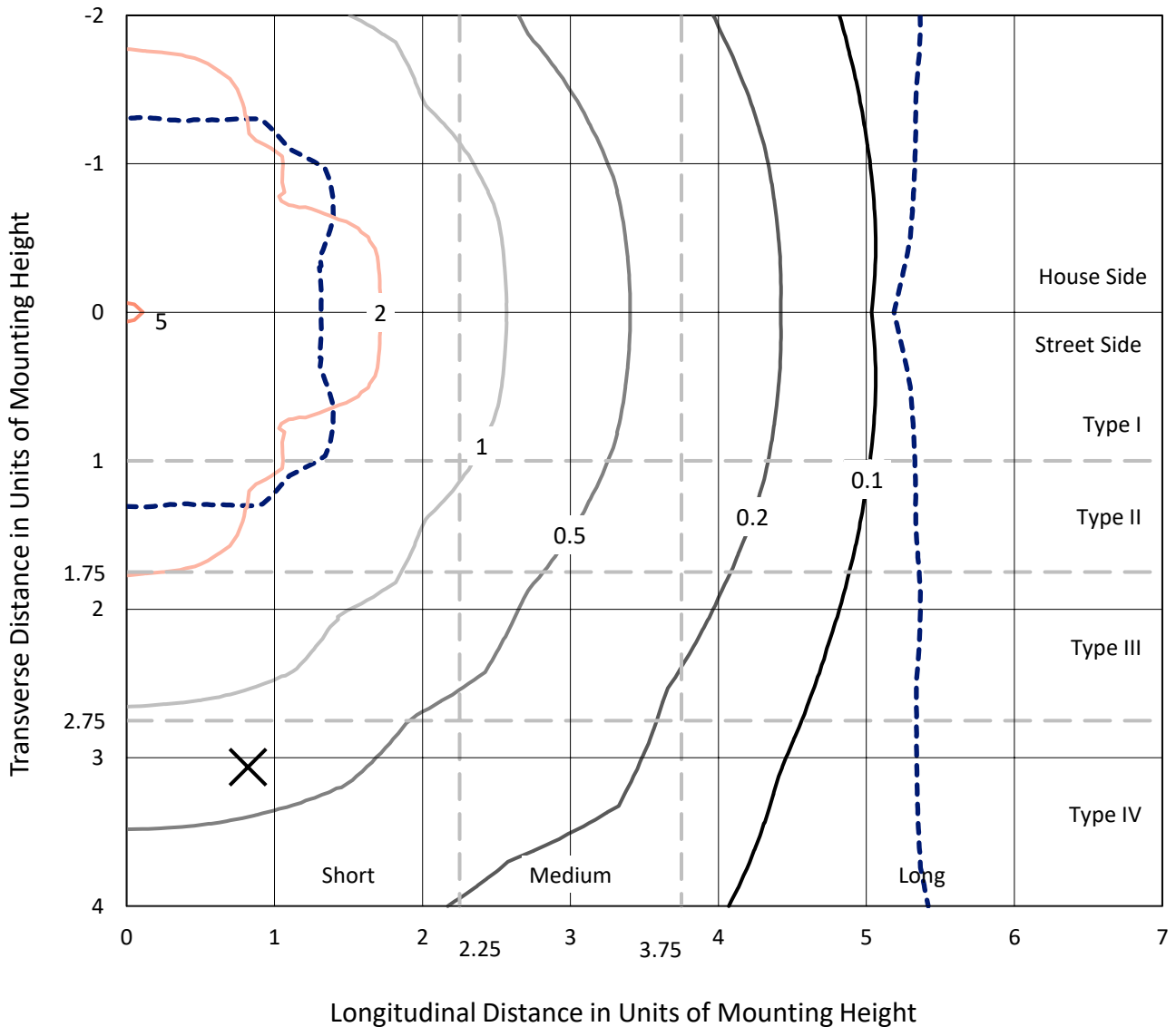
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

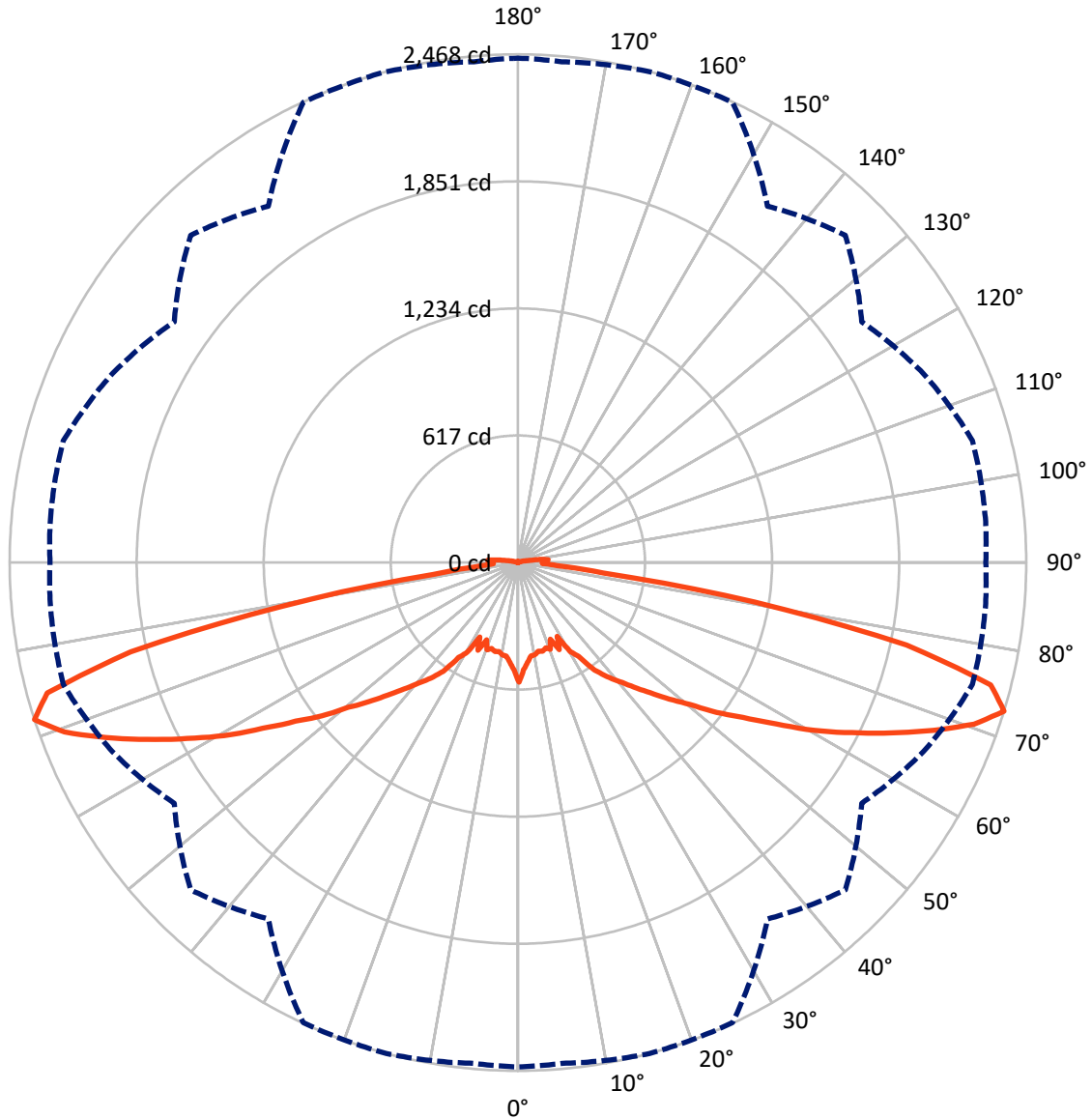
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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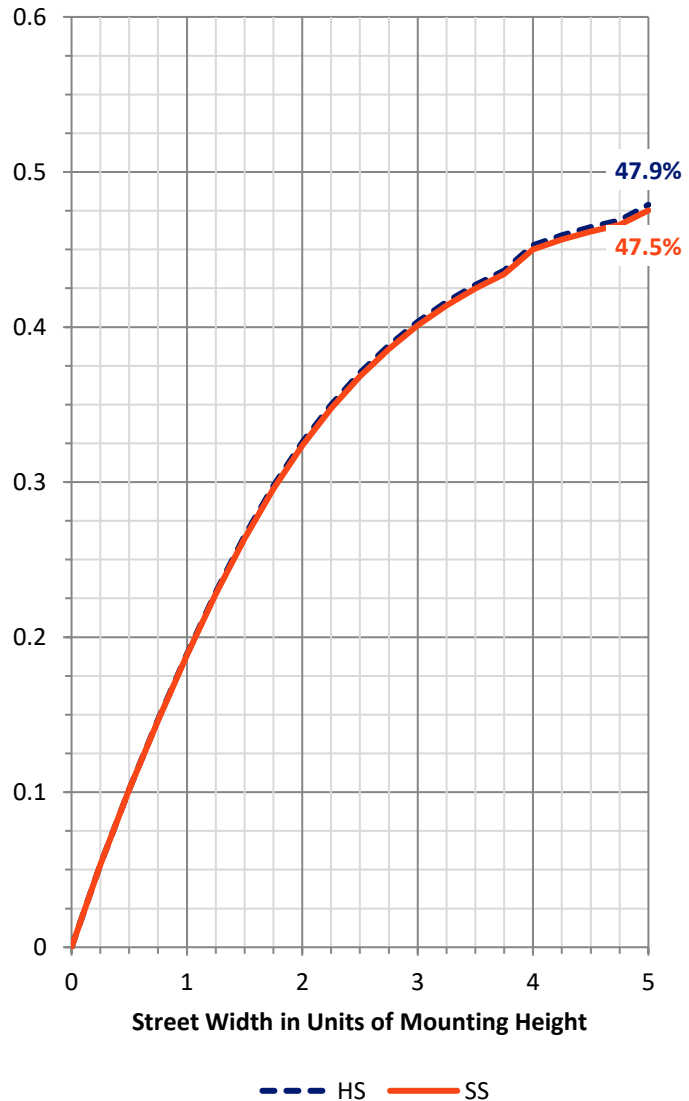
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3465.8	108.6	3574.3
	% Fixture	48.5	1.5	50.0
<b>Street Side</b>	Lumens	3465.8	108.6	3574.3
	% Fixture	48.5	1.5	50.0
<b>Total</b>	Lumens	6931.5	217.1	7148.6
	% Fixture	97.0	3.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	0.6
10°-20°	105.4	1.5
20°-30°	185.2	2.6
30°-40°	357.5	5.0
40°-50°	621.3	8.7
50°-60°	1094.9	15.3
60°-70°	1849.8	25.9
70°-80°	2174.5	30.4
80°-90°	497.0	7.0
90°-100°	164.0	2.3
100°-110°	38.7	0.5
110°-120°	6.2	0.1
120°-130°	5.0	0.1
130°-140°	2.0	0.0
140°-150°	0.4	0.0
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6931.5	97.0
0°-180°	7148.6	100.0



REPORT NUMBER: P561166

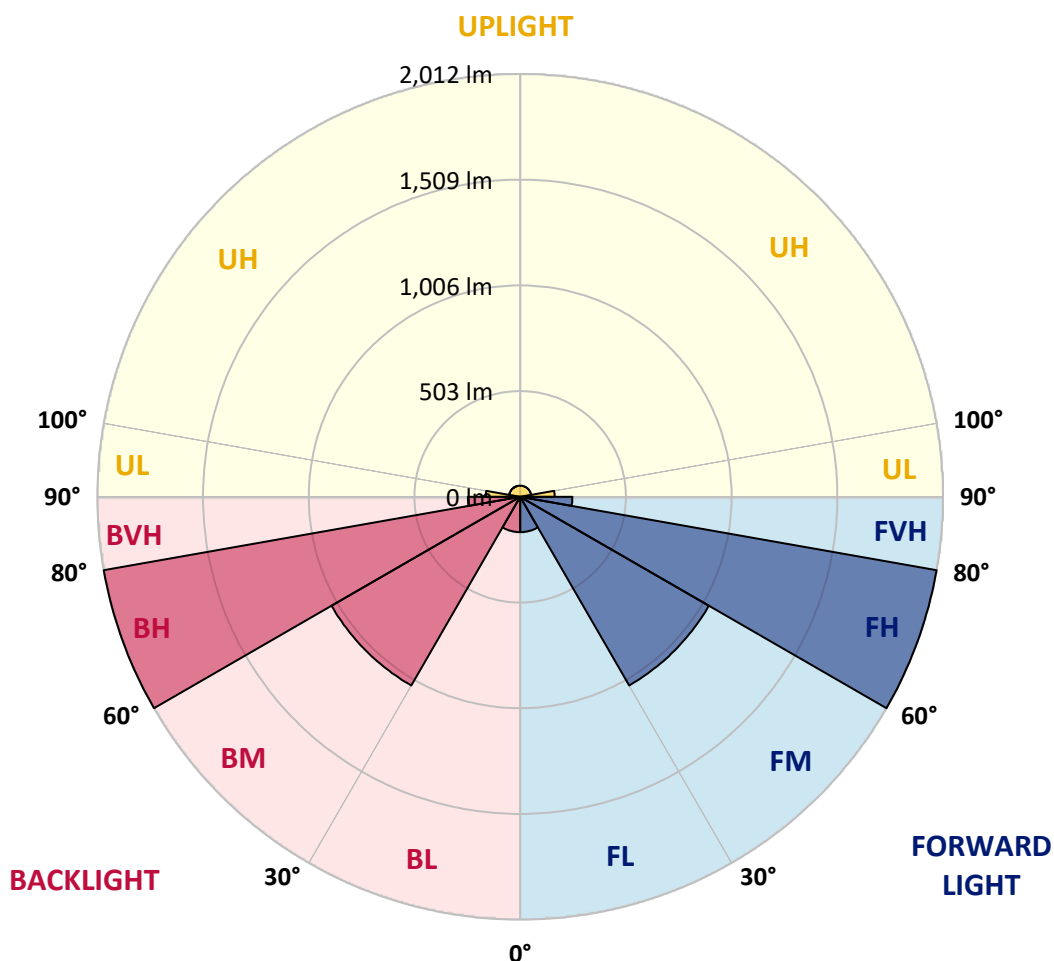
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.2	2.4			
FM (30°-60°)	1036.9	14.5			
FH (60°-80°)	2012.1	28.1			G2/5000
FVH (80°-90°)	248.5	3.5			G3/500
BL (0°-30°)	168.2	2.4	B1/500		
BM (30°-60°)	1036.9	14.5	B2/2500		
BH (60°-80°)	2012.1	28.1	B3/2500		G2/5000
BVH (80°-90°)	248.5	3.5			G3/500
UL (90°-100°)	164.0	2.3		U3/500	
UH (100°-180°)	53.1	0.7		U3/500	

**BUG Rating: B3-U3-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2
2.5°	514.0	524.7	522.0	540.9	557.0	562.4	573.2	573.2	575.8	575.8	575.8
5°	487.0	487.0	487.0	487.0	487.0	484.4	495.1	543.6	559.7	562.4	559.7
7.5°	422.5	435.9	457.4	465.5	473.6	470.9	465.5	435.9	481.7	487.0	489.7
10°	454.8	454.8	454.8	449.4	427.8	409.0	387.5	366.0	374.0	422.5	422.5
12.5°	403.6	400.9	441.3	446.7	406.3	355.2	339.0	347.1	322.9	368.6	368.6
15°	454.8	454.8	446.7	419.8	336.4	355.2	301.4	304.1	344.4	398.2	398.2
17.5°	387.5	390.2	435.9	409.0	366.0	285.2	333.7	301.4	309.4	339.0	341.7
20°	462.8	462.8	449.4	349.8	344.4	355.2	306.8	298.7	344.4	398.2	400.9
22.5°	398.2	398.2	403.6	406.3	355.2	349.8	306.8	347.1	325.6	325.6	363.3
25°	481.7	481.7	468.2	371.3	390.2	339.0	355.2	325.6	398.2	438.6	438.6
27.5°	422.5	422.5	406.3	422.5	376.7	403.6	355.2	384.8	427.8	516.6	522.0
30°	514.0	514.0	500.5	419.8	417.1	392.9	395.6	446.7	551.6	608.1	608.1
32.5°	624.3	627.0	543.6	481.7	422.5	452.1	430.5	508.6	575.8	635.0	637.7
35°	670.0	670.0	640.4	559.7	460.1	476.3	468.2	538.2	618.9	667.3	667.3
37.5°	723.8	723.8	702.3	600.1	505.9	527.4	489.7	578.5	667.3	710.4	705.0
40°	780.3	772.3	758.8	643.1	554.3	559.7	527.4	621.6	713.1	756.1	756.1
42.5°	850.3	850.3	826.1	715.8	602.8	610.8	562.4	675.4	780.3	831.5	834.2
45°	928.3	925.7	901.4	796.5	662.0	675.4	621.6	748.1	863.8	912.2	917.6
47.5°	1019.8	1019.8	990.2	882.6	737.3	750.7	688.9	820.7	966.0	1009.1	1014.5
50°	1116.7	1108.6	1081.7	982.2	836.9	831.5	764.2	901.4	1073.7	1103.3	1114.0
52.5°	1229.7	1219.0	1208.2	1095.2	947.2	949.9	861.1	987.5	1197.4	1213.6	1219.0
55°	1342.7	1334.7	1326.6	1235.1	1068.3	1084.4	990.2	1105.9	1321.2	1332.0	1342.7
57.5°	1469.2	1477.3	1477.3	1391.2	1205.5	1245.9	1130.2	1253.9	1469.2	1461.1	1458.4
60°	1652.2	1636.0	1654.9	1576.8	1393.9	1426.2	1302.4	1434.2	1611.8	1579.5	1571.5
62.5°	1800.2	1797.5	1819.0	1784.0	1568.8	1649.5	1471.9	1606.4	1746.4	1719.5	1722.1
65°	1969.7	1967.0	1993.9	1977.8	1751.7	1854.0	1657.6	1800.2	1907.8	1878.2	1872.8
67.5°	2133.9	2141.9	2174.2	2195.7	1899.7	2031.6	1835.2	1983.2	2066.6	2018.1	2023.5
70°	2335.7	2322.2	2349.1	2351.8	2020.8	2160.8	1972.4	2098.9	2201.1	2168.8	2163.4
72.5°	2448.7	2440.6	2467.5	2464.8	2112.3	2246.9	2037.0	2171.5	2284.5	2279.2	2271.1
75°	2324.9	2335.7	2370.6	2419.1	2117.7	2295.3	2028.9	2123.1	2211.9	2182.3	2174.2
77.5°	1824.4	1845.9	1929.3	2085.4	1975.1	2276.5	1886.3	1862.1	1880.9	1845.9	1824.4
80°	968.7	987.5	1165.1	1431.5	1584.9	1977.8	1584.9	1353.5	1154.4	1011.8	890.7
82.5°	309.4	333.7	417.1	659.3	1001.0	1377.7	917.6	519.3	357.9	306.8	287.9
85°	169.5	174.9	188.4	255.6	352.5	557.0	374.0	220.7	193.7	185.7	183.0
87.5°	142.6	145.3	118.4	145.3	169.5	174.9	169.5	121.1	123.8	137.2	134.5
90°	150.7	150.7	121.1	142.6	169.5	172.2	169.5	126.5	123.8	145.3	142.6
92.5°	164.1	164.1	137.2	153.4	188.4	183.0	183.0	131.9	137.2	156.1	156.1
95°	174.9	172.2	148.0	156.1	199.1	204.5	199.1	139.9	148.0	169.5	169.5
97.5°	129.2	123.8	107.6	139.9	188.4	215.3	199.1	131.9	115.7	129.2	126.5
100°	61.9	59.2	56.5	104.9	148.0	164.1	142.6	94.2	51.1	32.3	32.3
102.5°	13.5	13.5	37.7	72.7	86.1	86.1	78.0	64.6	32.3	10.8	10.8
105°	10.8	13.5	26.9	40.4	43.1	24.2	37.7	40.4	18.8	10.8	10.8
107.5°	10.8	13.5	10.8	13.5	13.5	10.8	13.5	16.1	8.1	10.8	10.8
110°	13.5	13.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	10.8	13.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	13.5	13.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	10.8	13.5
115°	10.8	10.8	5.4	5.4	5.4	5.4	2.7	5.4	5.4	10.8	10.8
117.5°	10.8	10.8	5.4	2.7	2.7	2.7	2.7	5.4	5.4	10.8	13.5
120°	13.5	10.8	5.4	2.7	2.7	2.7	2.7	2.7	8.1	13.5	13.5
122.5°	13.5	13.5	5.4	2.7	2.7	2.7	2.7	2.7	8.1	13.5	16.1
125°	13.5	10.8	5.4	2.7	2.7	2.7	2.7	2.7	5.4	13.5	13.5
127.5°	10.8	10.8	5.4	2.7	2.7	2.7	2.7	2.7	5.4	10.8	13.5
130°	10.8	10.8	5.4	2.7	2.7	2.7	2.7	2.7	5.4	10.8	10.8
132.5°	8.1	8.1	5.4	2.7	2.7	0.0	2.7	2.7	5.4	8.1	8.1
135°	5.4	5.4	2.7	0.0	2.7	0.0	2.7	0.0	2.7	5.4	8.1
137.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
140°	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	2.7	0.0	2.7	2.7	2.7	0.0	0.0	0.0	0.0	2.7
150°	2.7	2.7	5.4	2.7	2.7	0.0	2.7	2.7	0.0	0.0	2.7
152.5°	5.4	5.4	5.4	2.7	0.0	0.0	2.7	2.7	2.7	2.7	2.7
155°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	2.7	2.7	5.4	5.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
160°	0.0	0.0	0.0	0.0	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)