

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: P560440

Luminaire Tested: **SDL-PA1-40-827-U-5WQ-A**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P560440  
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-PA1-40-827-U-5WQ-A  
Description: Springdale  
(1) 80 CRI, 2700K, 500mA 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: 3514.6 lumens  
Efficiency: N/A  
Efficacy: 89.2 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: B2 - U3 - G2

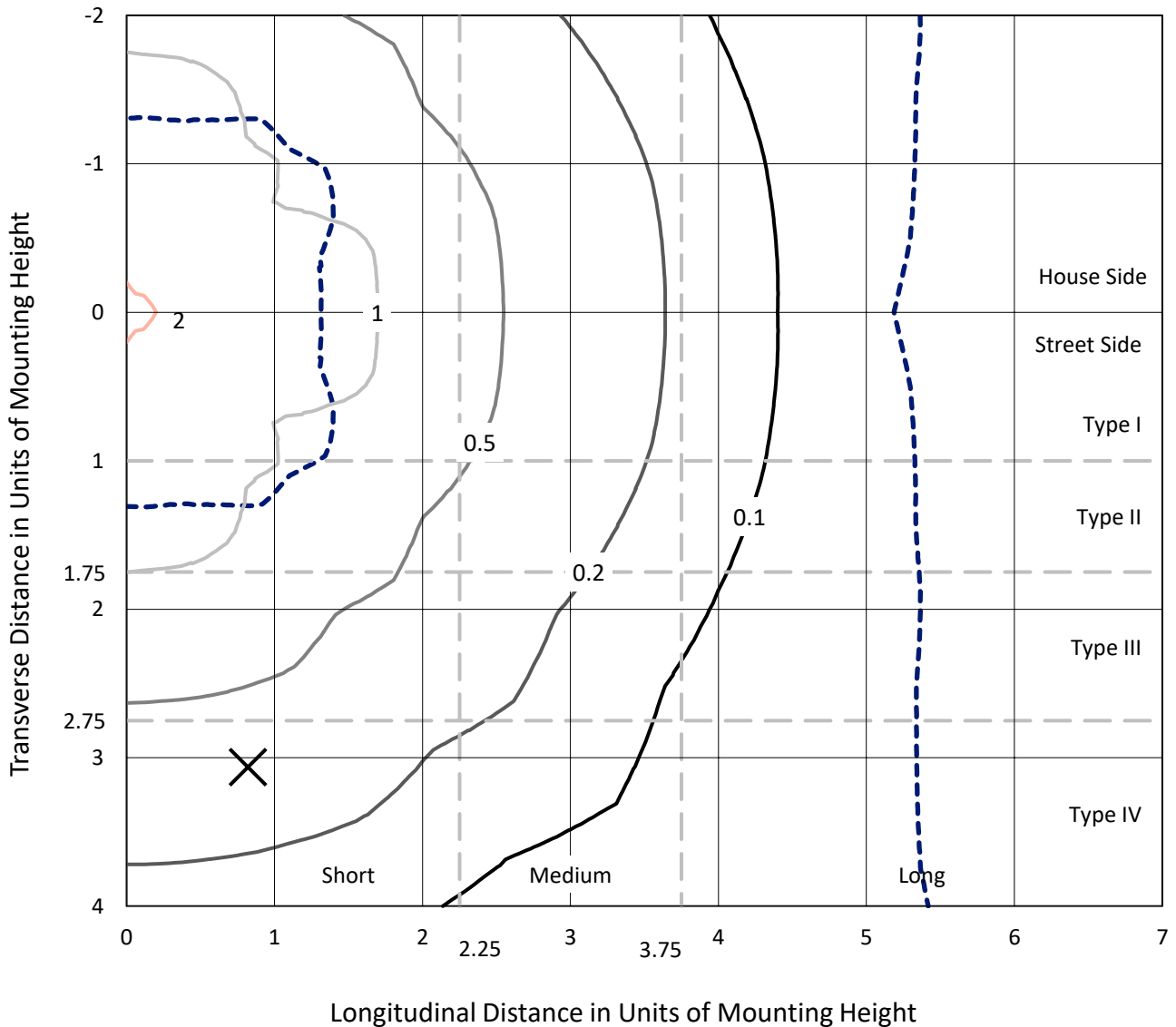
Input Watts (W): 39.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

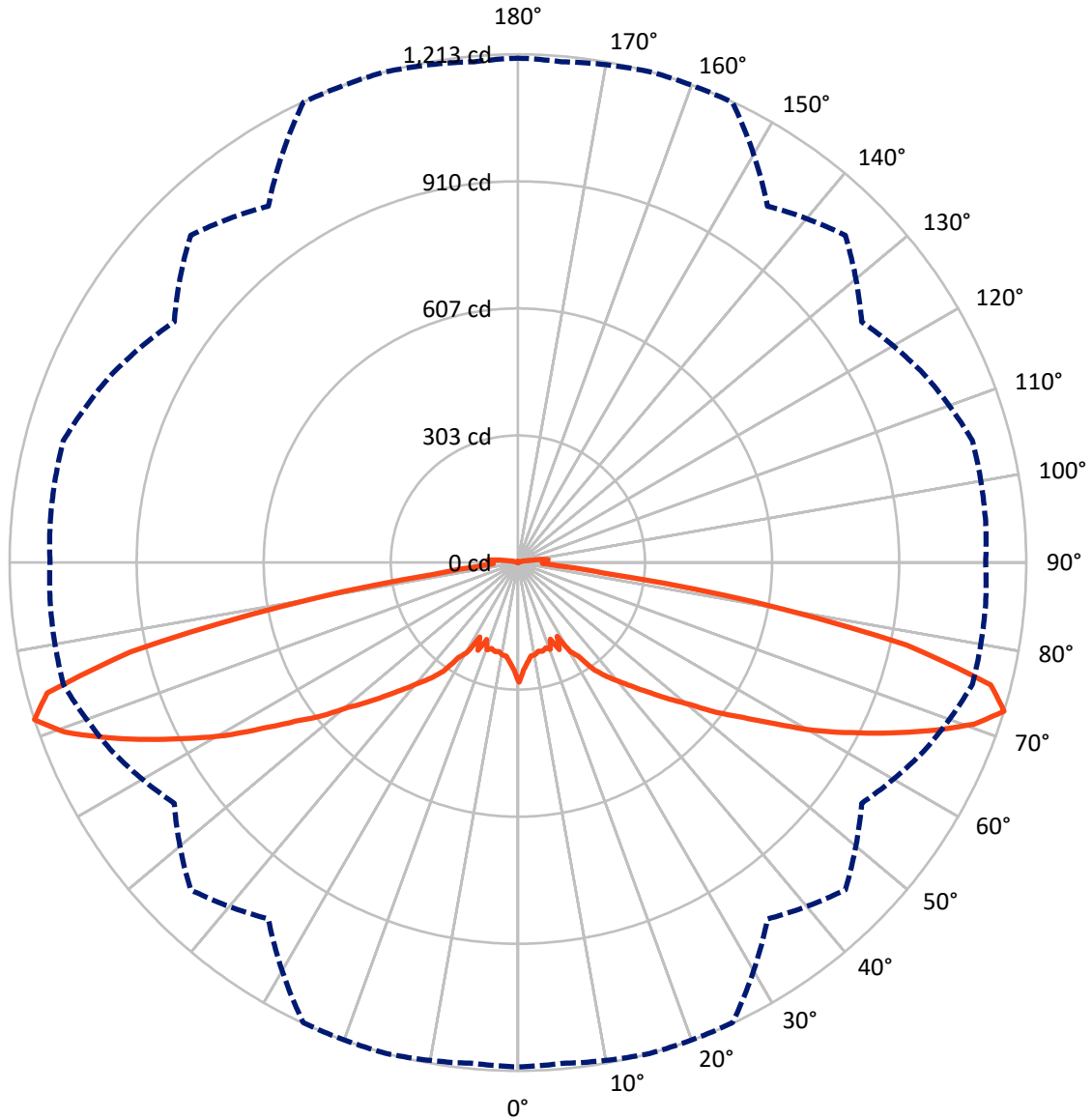
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 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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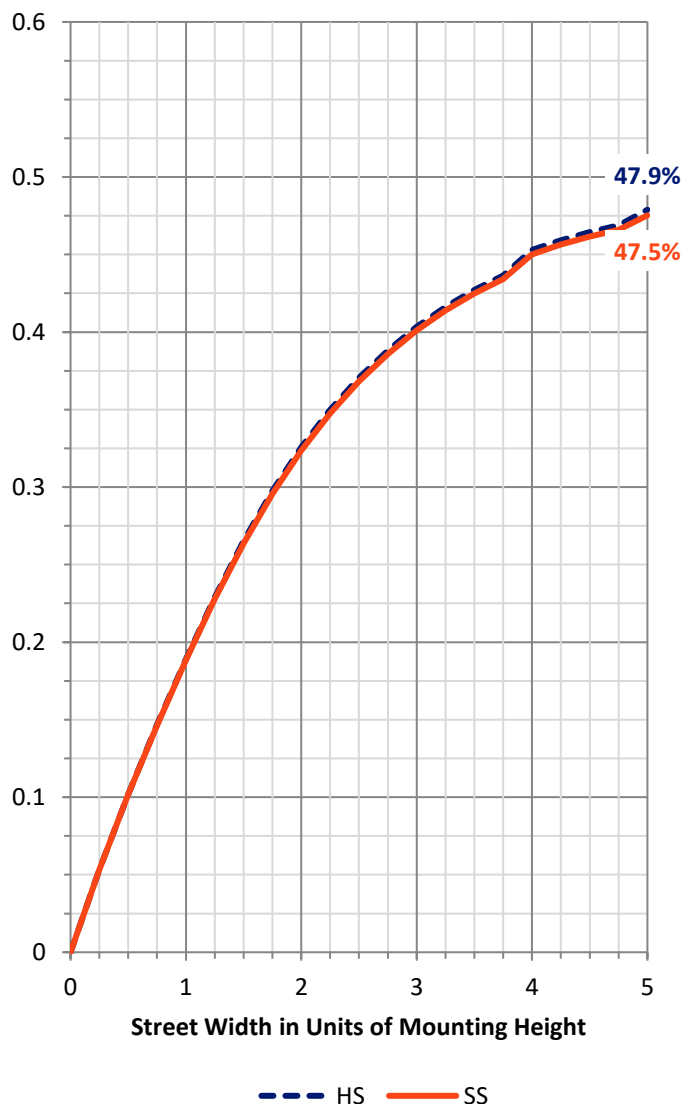
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1704.0	53.3	1757.3
	% Fixture	48.5	1.5	50.0
<b>Street Side</b>	Lumens	1704.0	53.3	1757.3
	% Fixture	48.5	1.5	50.0
<b>Total</b>	Lumens	3408.0	106.6	3514.6
	% Fixture	97.0	3.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.5	0.6
10°-20°	51.8	1.5
20°-30°	91.0	2.6
30°-40°	175.8	5.0
40°-50°	305.5	8.7
50°-60°	538.3	15.3
60°-70°	909.5	25.9
70°-80°	1069.1	30.4
80°-90°	244.4	7.0
90°-100°	80.6	2.3
100°-110°	19.0	0.5
110°-120°	3.0	0.1
120°-130°	2.4	0.1
130°-140°	1.0	0.0
140°-150°	0.2	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3408.0	97.0
0°-180°	3514.6	100.0

**Coefficient of Utilization**



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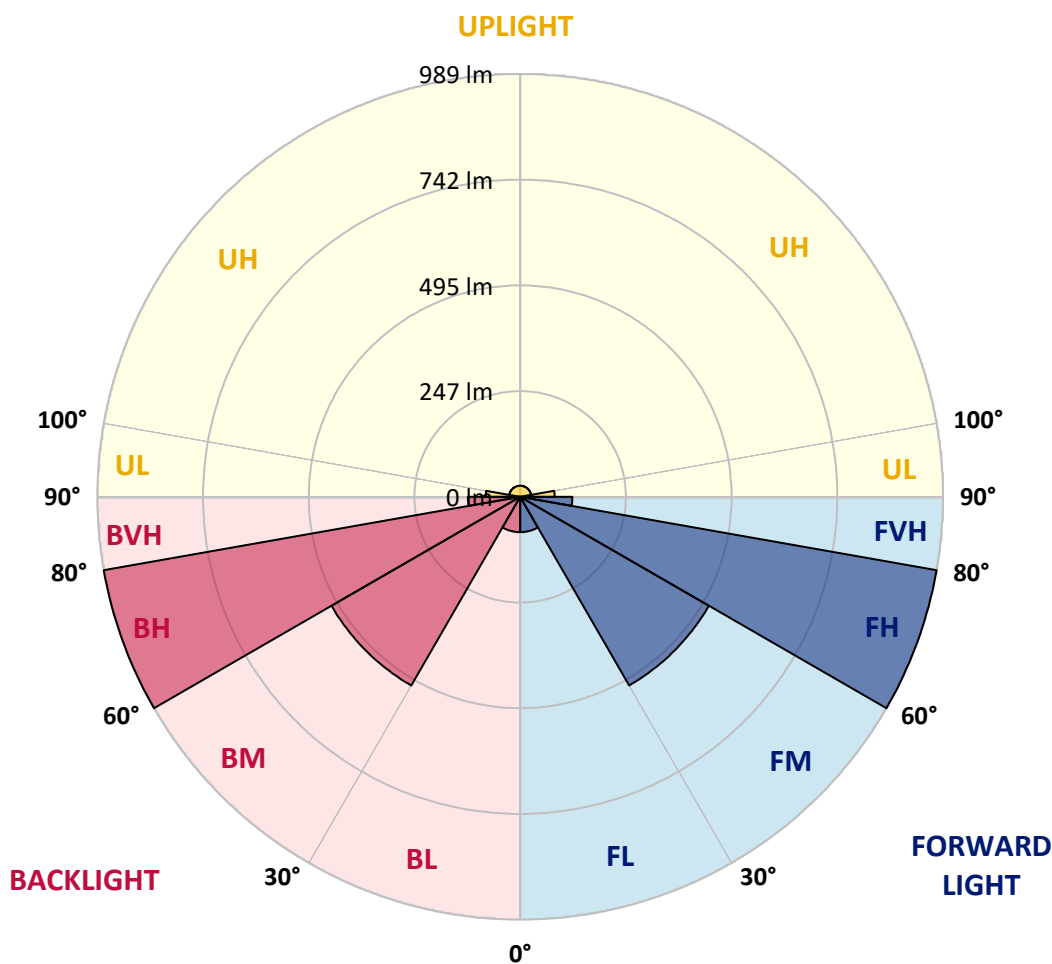
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	82.7	2.4			
FM (30°-60°)	509.8	14.5			
FH (60°-80°)	989.3	28.1			G1/1800
FVH (80°-90°)	122.2	3.5			G2/225
BL (0°-30°)	82.7	2.4	B0/110		
BM (30°-60°)	509.8	14.5	B1/1000		
BH (60°-80°)	989.3	28.1	B2/1000		G1/1800
BVH (80°-90°)	122.2	3.5			G2/225
UL (90°-100°)	80.6	2.3		U3/500	
UH (100°-180°)	26.0	0.7		U2/50	

**BUG Rating: B2-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8
2.5°	252.7	258.0	256.7	265.9	273.9	276.5	281.8	281.8	283.1	283.1	283.1
5°	239.5	239.5	239.5	239.5	239.5	238.1	243.4	267.2	275.2	276.5	275.2
7.5°	207.7	214.3	224.9	228.9	232.8	231.5	228.9	214.3	236.8	239.5	240.8
10°	223.6	223.6	223.6	220.9	210.4	201.1	190.5	179.9	183.9	207.7	207.7
12.5°	198.4	197.1	217.0	219.6	199.8	174.6	166.7	170.7	158.8	181.3	181.3
15°	223.6	223.6	219.6	206.4	165.4	174.6	148.2	149.5	169.3	195.8	195.8
17.5°	190.5	191.8	214.3	201.1	179.9	140.2	164.1	148.2	152.1	166.7	168.0
20°	227.6	227.6	220.9	172.0	169.3	174.6	150.8	146.9	169.3	195.8	197.1
22.5°	195.8	195.8	198.4	199.8	174.6	172.0	150.8	170.7	160.1	160.1	178.6
25°	236.8	236.8	230.2	182.6	191.8	166.7	174.6	160.1	195.8	215.6	215.6
27.5°	207.7	207.7	199.8	207.7	185.2	198.4	174.6	189.2	210.4	254.0	256.7
30°	252.7	252.7	246.1	206.4	205.1	193.2	194.5	219.6	271.2	299.0	299.0
32.5°	306.9	308.3	267.2	236.8	207.7	222.3	211.7	250.0	283.1	312.2	313.6
35°	329.4	329.4	314.9	275.2	226.2	234.2	230.2	264.6	304.3	328.1	328.1
37.5°	355.9	355.9	345.3	295.0	248.7	259.3	240.8	284.4	328.1	349.3	346.6
40°	383.7	379.7	373.1	316.2	272.5	275.2	259.3	305.6	350.6	371.8	371.8
42.5°	418.1	418.1	406.2	351.9	296.4	300.3	276.5	332.1	383.7	408.8	410.1
45°	456.4	455.1	443.2	391.6	325.5	332.1	305.6	367.8	424.7	448.5	451.1
47.5°	501.4	501.4	486.9	433.9	362.5	369.1	338.7	403.5	475.0	496.1	498.8
50°	549.0	545.1	531.8	482.9	411.5	408.8	375.7	443.2	527.9	542.4	547.7
52.5°	604.6	599.3	594.0	538.5	465.7	467.0	423.4	485.5	588.7	596.7	599.3
55°	660.2	656.2	652.2	607.3	525.2	533.2	486.9	543.8	649.6	654.9	660.2
57.5°	722.4	726.3	726.3	684.0	592.7	612.5	555.7	616.5	722.4	718.4	717.1
60°	812.3	804.4	813.6	775.3	685.3	701.2	640.3	705.2	792.5	776.6	772.6
62.5°	885.1	883.8	894.3	877.1	771.3	811.0	723.7	789.8	858.6	845.4	846.7
65°	968.4	967.1	980.3	972.4	861.3	911.5	815.0	885.1	938.0	923.5	920.8
67.5°	1049.1	1053.1	1069.0	1079.6	934.0	998.9	902.3	975.0	1016.1	992.2	994.9
70°	1148.4	1141.7	1155.0	1156.3	993.6	1062.4	969.8	1031.9	1082.2	1066.3	1063.7
72.5°	1203.9	1200.0	1213.2	1211.9	1038.6	1104.7	1001.5	1067.7	1123.2	1120.6	1116.6
75°	1143.1	1148.4	1165.6	1189.4	1041.2	1128.5	997.5	1043.8	1087.5	1073.0	1069.0
77.5°	897.0	907.6	948.6	1025.3	971.1	1119.3	927.4	915.5	924.8	907.6	897.0
80°	476.3	485.5	572.9	703.8	779.2	972.4	779.2	665.5	567.6	497.4	437.9
82.5°	152.1	164.1	205.1	324.1	492.2	677.4	451.1	255.3	176.0	150.8	141.6
85°	83.3	86.0	92.6	125.7	173.3	273.9	183.9	108.5	95.3	91.3	90.0
87.5°	70.1	71.4	58.2	71.4	83.3	86.0	83.3	59.5	60.9	67.5	66.1
90°	74.1	74.1	59.5	70.1	83.3	84.7	83.3	62.2	60.9	71.4	70.1
92.5°	80.7	80.7	67.5	75.4	92.6	90.0	90.0	64.8	67.5	76.7	76.7
95°	86.0	84.7	72.8	76.7	97.9	100.5	97.9	68.8	72.8	83.3	83.3
97.5°	63.5	60.9	52.9	68.8	92.6	105.8	97.9	64.8	56.9	63.5	62.2
100°	30.4	29.1	27.8	51.6	72.8	80.7	70.1	46.3	25.1	15.9	15.9
102.5°	6.6	6.6	18.5	35.7	42.3	42.3	38.4	31.8	15.9	5.3	5.3
105°	5.3	6.6	13.2	19.8	21.2	11.9	18.5	19.8	9.3	5.3	5.3
107.5°	5.3	6.6	5.3	6.6	6.6	5.3	6.6	7.9	4.0	5.3	5.3
110°	6.6	6.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.3	6.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	6.6	6.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.3	6.6
115°	5.3	5.3	2.6	2.6	2.6	2.6	1.3	2.6	2.6	5.3	5.3
117.5°	5.3	5.3	2.6	1.3	1.3	1.3	1.3	2.6	2.6	5.3	6.6
120°	6.6	5.3	2.6	1.3	1.3	1.3	1.3	1.3	4.0	6.6	6.6
122.5°	6.6	6.6	2.6	1.3	1.3	1.3	1.3	1.3	4.0	6.6	7.9
125°	6.6	5.3	2.6	1.3	1.3	1.3	1.3	1.3	2.6	6.6	6.6
127.5°	5.3	5.3	2.6	1.3	1.3	1.3	1.3	1.3	2.6	5.3	6.6
130°	5.3	5.3	2.6	1.3	1.3	1.3	1.3	1.3	2.6	5.3	5.3
132.5°	4.0	4.0	2.6	1.3	1.3	0.0	1.3	1.3	2.6	4.0	4.0
135°	2.6	2.6	1.3	0.0	1.3	0.0	1.3	0.0	1.3	2.6	4.0
137.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
140°	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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	1.3	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	1.3	0.0	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3
150°	1.3	1.3	2.6	1.3	1.3	0.0	1.3	1.3	0.0	0.0	1.3
152.5°	2.6	2.6	2.6	1.3	0.0	0.0	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	1.3	2.6	2.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
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)