

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: P561176

Luminaire Tested: **SDL-PA1-80-830-U-T2U-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-7)
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-T2U-A
Description: Springdale
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7046.4 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Medium
BUG Rating: B2 - U3 - G2

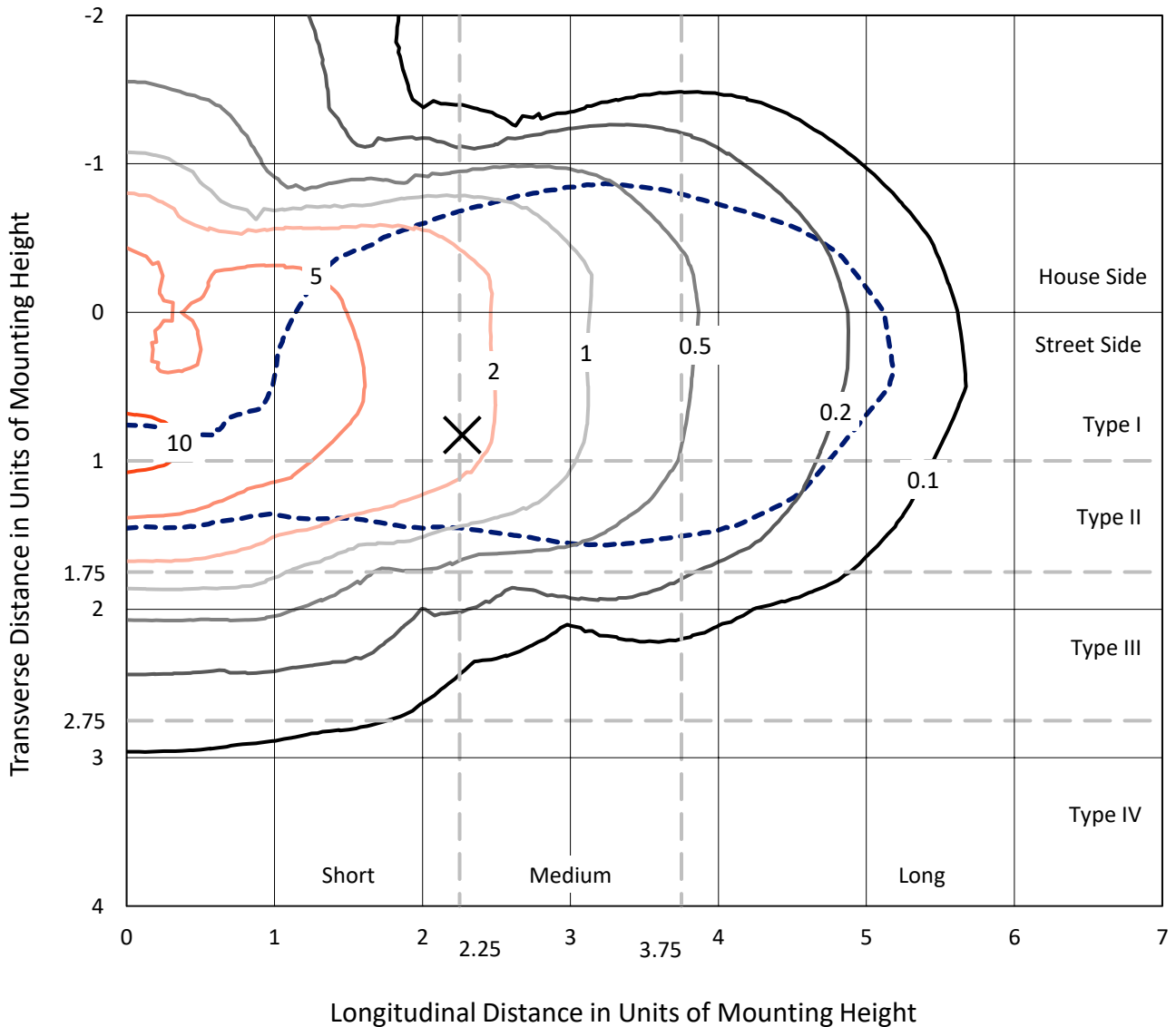
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

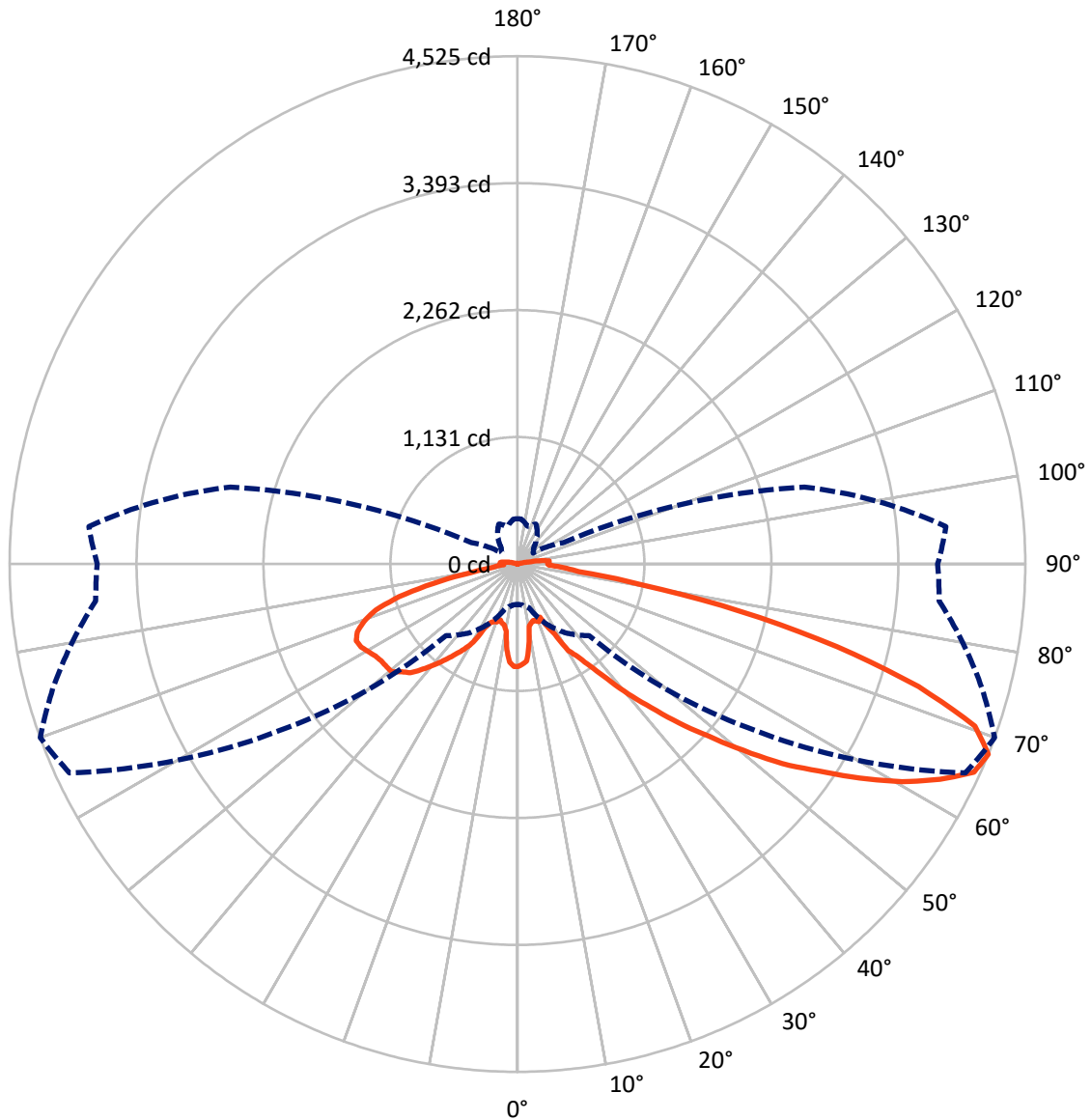
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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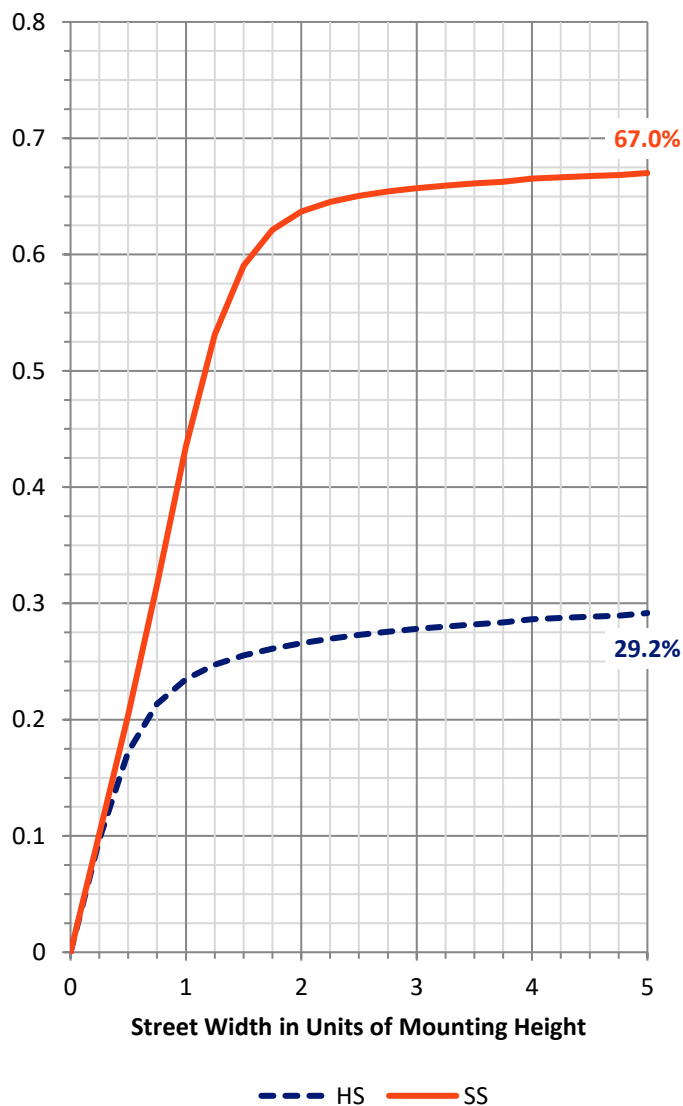
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2119.4	83.2	2202.5
	% Fixture	30.1	1.2	31.3
Street Side	Lumens	4763.5	80.4	4843.9
	% Fixture	67.6	1.1	68.7
Total	Lumens	6882.9	163.5	7046.4
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.0
10°-20°	169.0	2.4
20°-30°	299.9	4.3
30°-40°	631.9	9.0
40°-50°	1181.4	16.8
50°-60°	1636.2	23.2
60°-70°	1577.7	22.4
70°-80°	1037.2	14.7
80°-90°	276.4	3.9
90°-100°	113.4	1.6
100°-110°	24.8	0.4
110°-120°	10.7	0.2
120°-130°	7.7	0.1
130°-140°	3.5	0.0
140°-150°	1.8	0.0
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6882.9	97.7
0°-180°	7046.4	100.0

Coefficient of Utilization



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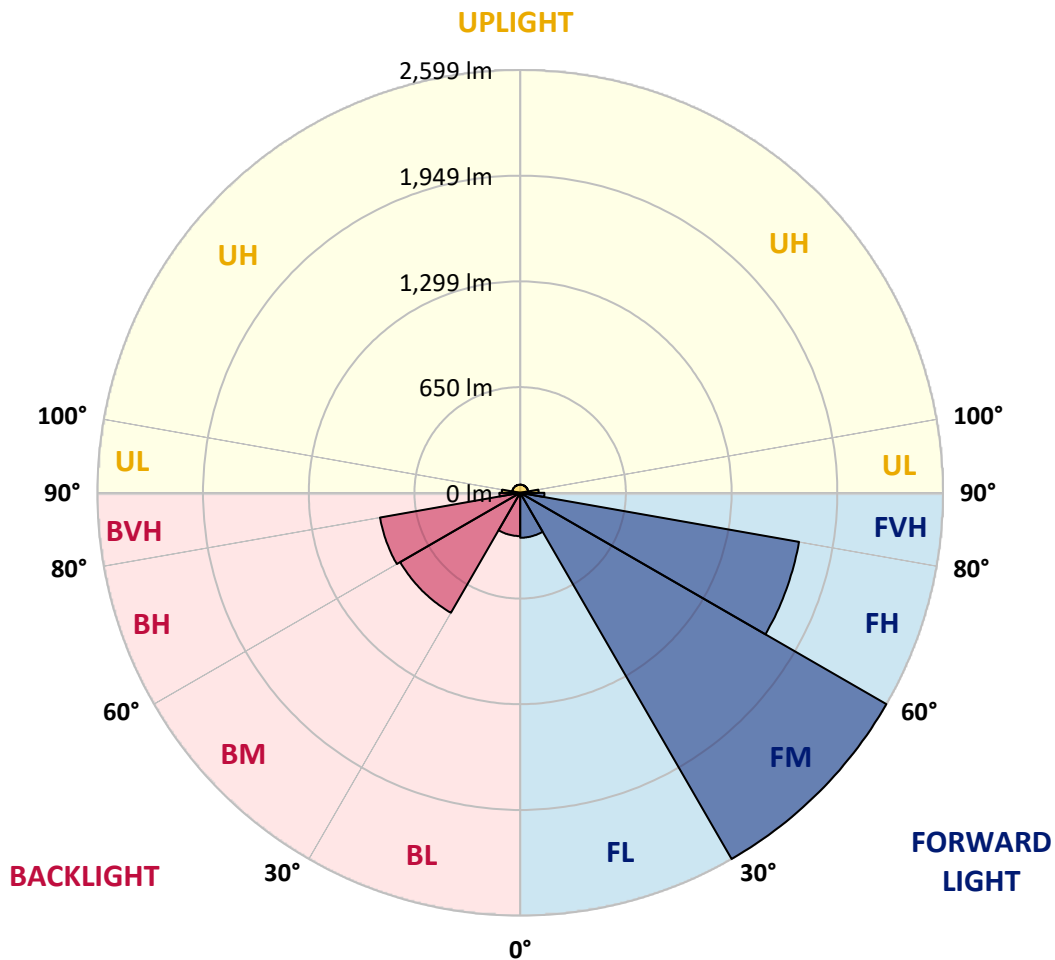
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.1	3.9			
FM (30°-60°)	2598.6	36.9			
FH (60°-80°)	1740.0	24.7			G1/1800
FVH (80°-90°)	148.7	2.1			G2/225
BL (0°-30°)	265.9	3.8	B1/500		
BM (30°-60°)	850.9	12.1	B1/1000		
BH (60°-80°)	874.9	12.4	B2/1000		G2/1000
BVH (80°-90°)	127.7	1.8			G2/225
UL (90°-100°)	113.4	1.6		U3/500	
UH (100°-180°)	50.2	0.7		U3/500	

BUG Rating: B2-U3-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9
2.5°	761.3	823.1	804.3	863.5	876.9	890.4	893.1	895.8	893.1	895.8	901.2
5°	718.2	720.9	723.6	729.0	729.0	734.4	745.1	858.1	868.9	876.9	887.7
7.5°	599.9	626.8	677.9	696.7	704.8	715.5	720.9	720.9	731.7	758.6	777.4
10°	667.1	661.7	664.4	667.1	629.5	621.4	564.9	556.8	564.9	583.7	672.5
12.5°	559.5	586.4	642.9	656.4	610.6	540.7	532.6	543.4	540.7	486.9	570.3
15°	648.3	645.6	640.2	629.5	511.1	535.3	460.0	465.4	521.9	559.5	637.5
17.5°	564.9	562.2	637.5	616.0	538.0	417.0	524.6	486.9	532.6	492.3	527.2
20°	702.1	699.4	691.3	513.8	548.8	554.1	508.4	470.8	548.8	567.6	640.2
22.5°	637.5	637.5	688.6	675.2	556.8	586.4	484.2	573.0	513.8	521.9	484.2
25°	876.9	868.9	858.1	626.8	669.8	538.0	599.9	527.2	613.3	664.4	696.7
27.5°	850.0	833.9	823.1	831.2	672.5	704.8	594.5	656.4	707.5	729.0	812.4
30°	1194.4	1172.8	1140.6	871.6	836.6	720.9	718.2	812.4	895.8	963.0	1008.8
32.5°	1522.5	1527.9	1361.1	1170.2	925.4	963.0	855.4	952.3	979.2	1049.1	1076.0
35°	1952.9	1899.1	1794.2	1460.7	1127.1	1089.5	995.3	1086.8	1113.7	1180.9	1197.1
37.5°	2291.9	2294.6	2133.2	1756.6	1350.4	1318.1	1154.0	1248.2	1296.6	1371.9	1345.0
40°	2617.4	2630.8	2501.7	2060.5	1632.8	1544.1	1345.0	1455.3	1522.5	1568.3	1522.5
42.5°	2907.9	2905.2	2816.4	2396.8	1896.5	1845.3	1546.8	1689.3	1748.5	1791.5	1756.6
45°	3136.5	3128.5	3047.8	2671.2	2208.5	2278.4	1810.4	1958.3	2020.2	2068.6	1982.5
47.5°	3214.6	3171.5	3136.5	2870.2	2499.0	2660.4	2135.9	2219.3	2291.9	2375.3	2235.4
50°	3131.2	3074.7	3088.1	2964.4	2743.8	2980.5	2485.6	2520.5	2609.3	2681.9	2474.8
52.5°	2784.2	2770.7	2846.0	2870.2	2848.7	3225.3	2878.3	2778.8	2953.6	2961.7	2722.3
55°	2326.9	2310.7	2488.3	2587.8	2749.2	3322.2	3211.9	3141.9	3254.9	3241.5	2942.9
57.5°	1874.9	1864.2	2025.6	2189.7	2469.4	3268.4	3445.9	3540.0	3596.5	3521.2	3147.3
60°	1256.2	1277.8	1554.8	1775.4	2020.2	2945.6	3534.7	3911.3	3938.2	3776.8	3362.5
62.5°	801.6	831.2	1008.8	1369.2	1509.1	2391.4	3470.1	4242.1	4226.0	4008.1	3561.6
65°	513.8	524.6	610.6	928.1	1081.4	1584.4	3182.3	4468.1	4470.8	4215.2	3720.3
67.5°	360.5	363.2	403.5	578.4	747.8	901.2	2587.8	4403.5	4524.6	4285.2	3771.4
70°	322.8	325.5	336.3	392.7	567.6	559.5	1568.3	3935.5	4325.5	4193.7	3693.4
72.5°	287.8	290.5	309.4	341.6	435.8	438.5	750.5	3133.9	3739.1	3868.2	3462.0
75°	239.4	244.8	266.3	320.1	336.3	368.5	503.0	2203.1	2942.9	3332.9	3187.7
77.5°	201.8	204.4	220.6	271.7	293.2	298.6	430.4	1221.3	2033.6	2453.3	2808.4
80°	161.4	161.4	174.9	215.2	242.1	244.8	384.7	645.6	1127.1	1484.9	1952.9
82.5°	104.9	107.6	123.7	161.4	180.2	242.1	341.6	470.8	551.5	715.5	887.7
85°	67.3	67.3	78.0	91.5	107.6	185.6	301.3	390.1	411.6	449.2	403.5
87.5°	32.3	32.3	29.6	35.0	40.4	69.9	209.8	277.1	279.8	274.4	295.9
90°	26.9	26.9	21.5	24.2	26.9	37.7	158.7	271.7	269.0	279.8	306.7
92.5°	29.6	29.6	21.5	24.2	26.9	32.3	115.7	274.4	282.5	295.9	325.5
95°	32.3	32.3	21.5	21.5	24.2	29.6	72.6	236.7	285.1	298.6	336.3
97.5°	29.6	29.6	16.1	18.8	21.5	26.9	45.7	177.5	223.3	234.0	266.3
100°	26.9	26.9	13.5	16.1	18.8	21.5	29.6	91.5	96.8	72.6	102.2
102.5°	24.2	26.9	10.8	13.5	13.5	13.5	18.8	43.0	43.0	24.2	26.9
105°	24.2	26.9	10.8	10.8	8.1	10.8	10.8	16.1	18.8	13.5	21.5
107.5°	26.9	26.9	10.8	10.8	8.1	8.1	8.1	10.8	13.5	10.8	21.5
110°	24.2	24.2	8.1	10.8	5.4	5.4	5.4	8.1	10.8	10.8	24.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	16.1	16.1	8.1	10.8	5.4	5.4	5.4	8.1	10.8	13.5	29.6
115°	13.5	10.8	5.4	8.1	5.4	5.4	5.4	8.1	8.1	10.8	24.2
117.5°	13.5	10.8	5.4	5.4	2.7	5.4	5.4	8.1	8.1	10.8	21.5
120°	13.5	13.5	5.4	2.7	2.7	2.7	2.7	5.4	8.1	13.5	24.2
122.5°	16.1	13.5	5.4	5.4	2.7	2.7	2.7	5.4	8.1	13.5	24.2
125°	16.1	16.1	8.1	5.4	2.7	2.7	2.7	5.4	8.1	10.8	21.5
127.5°	16.1	13.5	8.1	5.4	2.7	2.7	2.7	2.7	5.4	8.1	18.8
130°	13.5	13.5	8.1	2.7	2.7	2.7	2.7	2.7	5.4	5.4	13.5
132.5°	10.8	10.8	8.1	2.7	2.7	2.7	2.7	2.7	2.7	5.4	10.8
135°	8.1	8.1	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	8.1
137.5°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
140°	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
142.5°	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
145°	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7
150°	5.4	5.4	10.8	8.1	5.4	2.7	5.4	2.7	2.7	2.7	2.7
152.5°	8.1	8.1	10.8	8.1	2.7	2.7	2.7	5.4	2.7	2.7	2.7
155°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	5.4	5.4	8.1
157.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	2.7	2.7	2.7	2.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9
2.5°	903.8	903.8	911.9	914.6	911.9	909.2	893.1	844.7	815.1	817.8	817.8
5°	890.4	893.1	901.2	852.7	793.6	798.9	807.0	809.7	809.7	815.1	815.1
7.5°	785.5	788.2	766.7	774.7	793.6	807.0	812.4	798.9	755.9	739.8	739.8
10°	680.6	680.6	605.3	607.9	629.5	669.8	796.2	809.7	823.1	825.8	823.1
12.5°	575.7	578.4	516.5	594.5	567.6	640.2	734.4	812.4	750.5	688.6	696.7
15°	642.9	648.3	581.0	511.1	524.6	632.2	548.8	753.2	758.6	758.6	758.6
17.5°	516.5	546.1	513.8	527.2	581.0	476.1	621.4	688.6	632.2	616.0	616.0
20°	642.9	642.9	586.4	508.4	538.0	618.7	551.5	613.3	720.9	720.9	718.2
22.5°	478.8	478.8	513.8	589.1	540.7	610.6	583.7	634.8	573.0	573.0	589.1
25°	691.3	683.3	624.1	521.9	616.0	564.9	586.4	554.1	648.3	656.4	651.0
27.5°	833.9	828.5	669.8	599.9	578.4	602.6	527.2	516.5	497.7	573.0	564.9
30°	987.2	973.8	876.9	723.6	634.8	508.4	476.1	495.0	548.8	551.5	548.8
32.5°	1059.9	1030.3	922.7	866.2	648.3	524.6	427.7	441.2	546.1	578.4	578.4
35°	1159.4	1127.1	1006.1	944.2	645.6	462.7	379.3	427.7	492.3	495.0	495.0
37.5°	1296.6	1248.2	1145.9	989.9	602.6	408.9	349.7	379.3	425.0	438.5	443.9
40°	1455.3	1393.4	1302.0	1019.5	540.7	344.3	312.0	349.7	384.7	373.9	373.9
42.5°	1678.6	1587.1	1455.3	1065.2	462.7	304.0	285.1	320.1	344.3	349.7	347.0
45°	1888.4	1775.4	1635.5	1081.4	376.6	274.4	266.3	304.0	328.2	320.1	320.1
47.5°	2125.1	1982.5	1770.0	1043.7	309.4	258.2	266.3	293.2	304.0	317.4	317.4
50°	2359.1	2205.8	1966.4	984.5	274.4	247.5	266.3	282.5	304.0	312.0	309.4
52.5°	2571.6	2437.1	2084.8	879.6	255.6	239.4	258.2	282.5	309.4	322.8	322.8
55°	2803.0	2665.8	2192.4	785.5	239.4	223.3	266.3	293.2	301.3	309.4	309.4
57.5°	2977.8	2870.2	2310.7	702.1	228.7	223.3	271.7	306.7	304.0	312.0	312.0
60°	3190.3	3096.2	2418.3	661.7	212.5	212.5	282.5	330.9	309.4	333.6	333.6
62.5°	3416.3	3359.8	2523.2	632.2	196.4	207.1	285.1	349.7	320.1	357.8	360.5
65°	3634.2	3645.0	2620.1	562.2	182.9	207.1	290.5	373.9	330.9	379.3	384.7
67.5°	3744.5	3833.3	2647.0	451.9	169.5	204.4	306.7	392.7	347.0	400.8	403.5
70°	3723.0	3838.6	2585.1	333.6	158.7	215.2	330.9	408.9	355.1	427.7	427.7
72.5°	3534.7	3618.1	2402.2	252.9	148.0	207.1	336.3	414.3	360.5	470.8	470.8
75°	3268.4	3182.3	1977.2	209.8	139.9	207.1	328.2	408.9	355.1	460.0	457.3
77.5°	2835.3	2547.4	1363.8	185.6	131.8	199.1	306.7	398.1	338.9	427.7	433.1
80°	1818.4	1568.3	696.7	161.4	139.9	191.0	295.9	368.5	314.7	382.0	384.7
82.5°	828.5	696.7	317.4	142.6	137.2	172.2	269.0	328.2	274.4	325.5	322.8
85°	349.7	355.1	250.2	121.1	121.1	134.5	199.1	255.6	212.5	228.7	223.3
87.5°	271.7	260.9	172.2	72.6	78.0	59.2	129.1	182.9	139.9	148.0	145.3
90°	287.8	282.5	182.9	75.3	56.5	35.0	96.8	142.6	104.9	94.2	91.5
92.5°	306.7	304.0	204.4	80.7	56.5	29.6	83.4	115.7	75.3	64.6	61.9
95°	328.2	328.2	223.3	86.1	56.5	29.6	75.3	88.8	56.5	43.0	40.4
97.5°	260.9	266.3	191.0	88.8	53.8	29.6	67.3	72.6	43.0	24.2	24.2
100°	104.9	115.7	104.9	88.8	48.4	24.2	53.8	56.5	29.6	13.5	13.5
102.5°	24.2	29.6	72.6	78.0	37.7	16.1	35.0	35.0	18.8	8.1	8.1
105°	24.2	21.5	48.4	61.9	21.5	10.8	16.1	21.5	10.8	5.4	5.4
107.5°	24.2	24.2	21.5	29.6	10.8	8.1	8.1	8.1	5.4	5.4	5.4
110°	26.9	24.2	10.8	10.8	8.1	8.1	5.4	5.4	2.7	16.1	18.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	32.3	29.6	13.5	10.8	8.1	8.1	5.4	5.4	8.1	26.9	26.9
115°	26.9	24.2	13.5	8.1	8.1	8.1	5.4	2.7	8.1	29.6	29.6
117.5°	24.2	21.5	13.5	8.1	5.4	8.1	5.4	2.7	8.1	29.6	29.6
120°	26.9	24.2	13.5	8.1	5.4	5.4	5.4	2.7	8.1	26.9	26.9
122.5°	26.9	26.9	16.1	5.4	5.4	2.7	5.4	2.7	8.1	24.2	24.2
125°	24.2	21.5	13.5	5.4	2.7	2.7	2.7	2.7	10.8	21.5	24.2
127.5°	21.5	18.8	10.8	5.4	2.7	2.7	2.7	2.7	8.1	16.1	18.8
130°	16.1	16.1	8.1	5.4	2.7	2.7	2.7	2.7	8.1	16.1	13.5
132.5°	10.8	10.8	8.1	5.4	2.7	2.7	2.7	2.7	8.1	10.8	10.8
135°	8.1	8.1	5.4	2.7	2.7	2.7	2.7	2.7	5.4	8.1	8.1
137.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4
140°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
142.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
145°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
150°	2.7	2.7	2.7	2.7	5.4	2.7	2.7	5.4	2.7	2.7	2.7
152.5°	2.7	2.7	2.7	5.4	2.7	2.7	2.7	2.7	8.1	8.1	5.4
155°	8.1	8.1	5.4	2.7	2.7	2.7	2.7	2.7	5.4	2.7	2.7
157.5°	2.7	2.7	2.7	2.7	2.7	0.0	2.7	0.0	0.0	2.7	0.0
160°	0.0	0.0	2.7	2.7	2.7	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)