

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: P561173

Luminaire Tested: **SDL-PA1-80-830-U-T2R-HSS-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-17)
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-T2R-HSS-A
Description: Springdale
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II R OPTICS,
HOUSE SIDE SHIELD AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5636.6 lumens
Efficiency: N/A
Efficacy: 68.7 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: B1 - U3 - G1

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

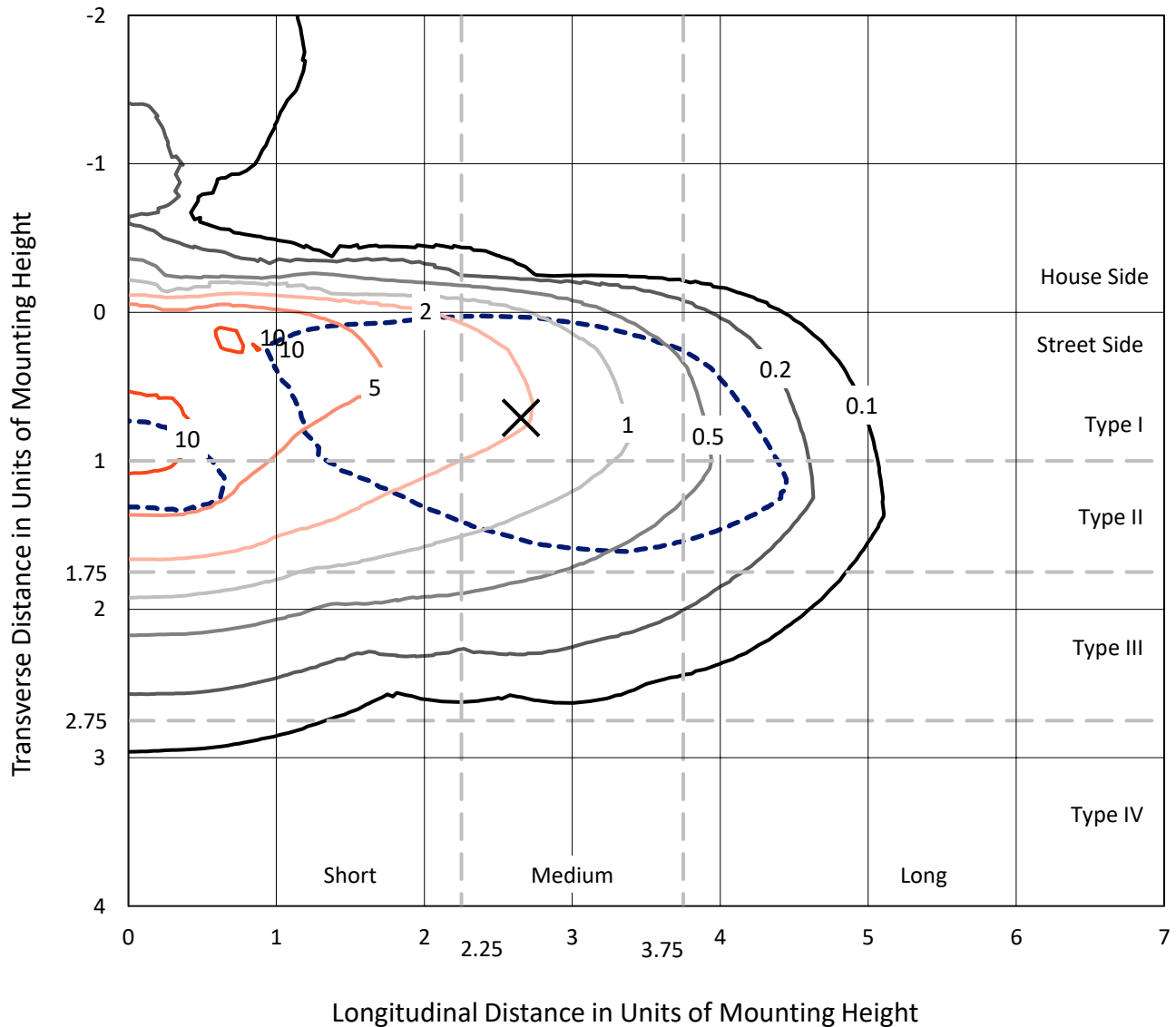


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

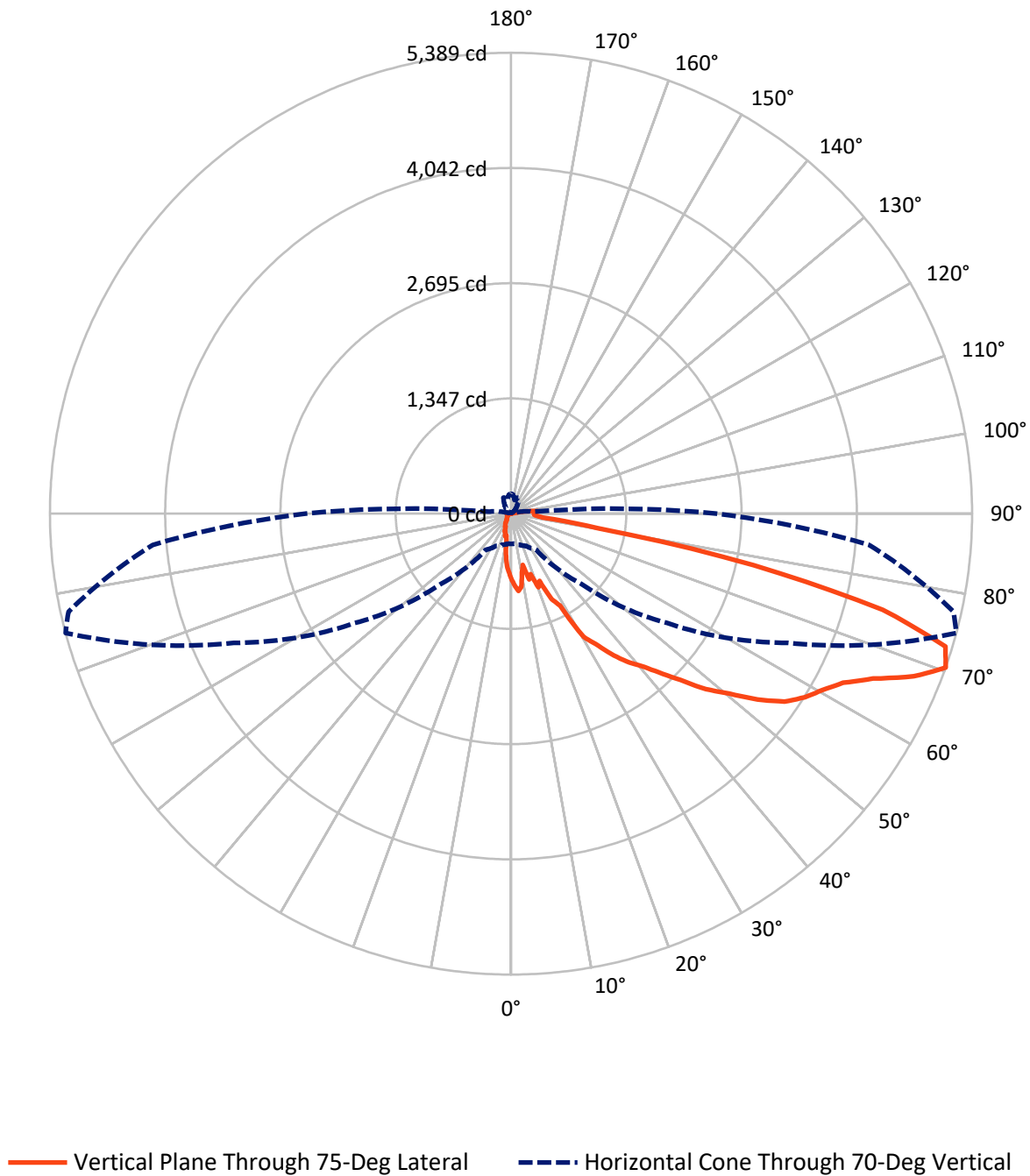


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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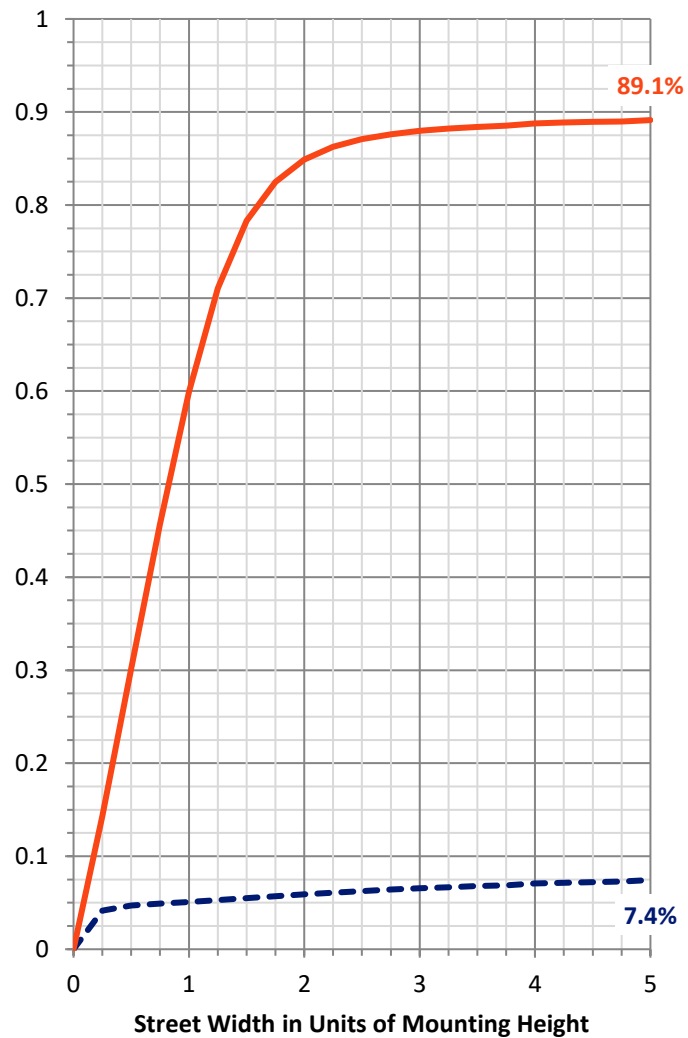
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.3	57.1	516.4
	% Fixture	8.1	1.0	9.2
Street Side	Lumens	5048.4	71.8	5120.2
	% Fixture	89.6	1.3	90.8
Total	Lumens	5507.6	128.9	5636.6
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	1.1
10°-20°	148.7	2.6
20°-30°	278.9	4.9
30°-40°	626.0	11.1
40°-50°	1030.2	18.3
50°-60°	1262.9	22.4
60°-70°	1182.7	21.0
70°-80°	770.2	13.7
80°-90°	147.1	2.6
90°-100°	84.4	1.5
100°-110°	19.0	0.3
110°-120°	9.7	0.2
120°-130°	8.1	0.1
130°-140°	4.0	0.1
140°-150°	2.0	0.0
150°-160°	1.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5507.6	97.7
0°-180°	5636.6	100.0

Coefficient of Utilization



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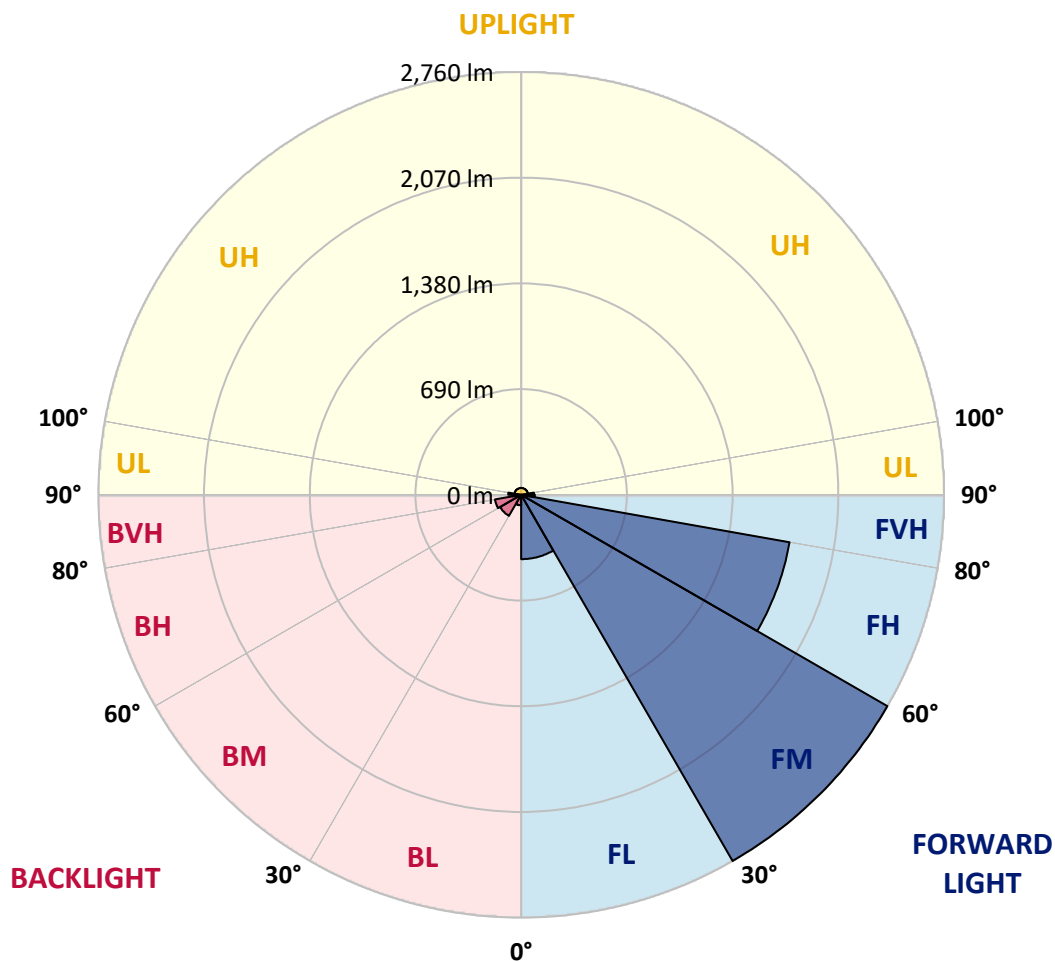
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.9	7.4			
FM	(30°-60°)	2760.3	49.0			
FH	(60°-80°)	1779.1	31.6			G1/1800
FVH	(80°-90°)	89.1	1.6			G1/100
BL	(0°-30°)	68.6	1.2	B0/110		
BM	(30°-60°)	158.7	2.8	B0/220		
BH	(60°-80°)	173.9	3.1	B1/500		G1/500
BVH	(80°-90°)	58.1	1.0			G1/100
UL	(90°-100°)	84.4	1.5		U3/500	
UH	(100°-180°)	44.5	0.8		U2/50	

BUG Rating: B1-U3-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	766.8	766.8	766.8	766.8	766.8	766.8	766.8	766.8	766.8	766.8	766.8
2.5°	855.6	909.4	925.6	952.5	965.9	949.8	920.2	882.5	842.2	831.4	796.4
5°	971.3	960.5	952.5	952.5	936.3	901.3	869.1	968.6	906.7	893.3	823.3
7.5°	882.5	965.9	1027.8	1033.2	1025.1	998.2	952.5	850.2	863.7	847.5	761.4
10°	1068.2	1070.8	1060.1	1068.2	992.8	955.2	807.2	745.3	696.9	761.4	683.4
12.5°	885.2	1017.0	1092.4	1119.3	1025.1	901.3	826.0	793.7	616.1	600.0	618.8
15°	1081.6	1087.0	1095.1	1068.2	831.4	944.4	766.8	707.6	799.1	777.6	764.1
17.5°	855.6	866.4	1049.3	1038.6	963.2	748.0	912.1	812.6	742.6	715.7	696.9
20°	1089.7	1092.4	1089.7	826.0	898.7	1006.3	858.3	831.4	920.2	909.4	861.0
22.5°	914.8	914.8	976.7	1060.1	944.4	1009.0	874.4	1035.9	855.6	850.2	640.4
25°	1264.6	1264.6	1221.5	936.3	1070.8	949.8	1038.6	930.9	1105.8	1068.2	960.5
27.5°	1229.6	1191.9	1124.7	1181.2	1035.9	1189.2	1006.3	1135.4	1218.8	1253.8	1197.3
30°	1708.5	1708.5	1635.9	1264.6	1213.4	1148.9	1162.3	1358.7	1670.8	1676.2	1447.5
32.5°	2313.9	2270.8	1886.1	1630.5	1326.5	1442.1	1313.0	1598.2	1816.1	1808.1	1539.0
35°	2561.4	2548.0	2429.6	2001.8	1536.3	1579.4	1479.8	1689.7	2012.6	1958.7	1649.3
37.5°	2814.3	2792.8	2671.7	2211.7	1756.9	1813.4	1603.6	1824.2	2192.8	2114.8	1770.4
40°	2970.4	2973.1	2887.0	2378.5	1931.8	1961.4	1751.6	1988.3	2338.1	2354.3	1875.3
42.5°	3134.5	3131.8	3061.9	2574.9	2077.1	2114.8	1869.9	2144.4	2534.5	2553.4	2052.9
45°	3223.3	3217.9	3177.6	2709.4	2192.8	2219.7	2052.9	2335.4	2774.0	2768.6	2198.2
47.5°	3244.8	3252.9	3250.2	2841.2	2313.9	2324.7	2217.0	2475.3	3064.6	3005.4	2389.2
50°	3123.8	3129.1	3166.8	2946.2	2402.7	2413.4	2346.2	2634.1	3309.4	3239.5	2561.4
52.5°	2787.4	2819.7	2978.5	2881.6	2440.4	2480.7	2467.3	2755.1	3608.1	3522.0	2774.0
55°	2071.7	2147.1	2510.3	2639.5	2421.5	2483.4	2574.9	2975.8	3879.8	3774.9	2946.2
57.5°	1652.0	1665.5	1880.7	2235.9	2268.2	2469.9	2687.9	3110.3	4049.3	3944.4	3069.9
60°	1304.9	1326.5	1466.4	1751.6	1980.3	2389.2	2720.2	3247.5	4183.8	4095.1	3207.2
62.5°	1011.7	1009.0	1116.6	1307.6	1595.5	2219.7	2677.1	3330.9	4356.0	4288.8	3452.0
65°	704.9	704.9	796.4	949.8	1208.1	1915.7	2591.0	3449.3	4649.3	4630.5	3756.0
67.5°	481.6	492.4	554.3	629.6	828.7	1557.8	2461.9	3570.4	5077.1	4988.3	4049.3
70°	352.5	352.5	376.7	417.0	516.6	1162.3	2230.5	3573.1	5389.2	5297.7	4202.7
72.5°	261.0	261.0	279.8	298.7	325.6	772.2	1829.6	3347.1	5308.5	5163.2	3890.6
75°	137.2	137.2	212.6	220.6	217.9	500.4	1350.7	2749.8	4487.9	4245.7	3045.7
77.5°	107.6	110.3	121.1	172.2	158.7	328.3	753.4	1692.4	2900.4	2604.5	1649.3
80°	78.0	75.3	94.2	110.3	94.2	191.0	355.2	742.6	1027.8	890.6	543.5
82.5°	45.7	48.4	56.5	80.7	80.7	134.5	231.4	325.6	368.6	365.9	325.6
85°	5.4	8.1	29.6	53.8	48.4	78.0	193.7	226.0	290.6	296.0	290.6
87.5°	5.4	5.4	8.1	10.8	13.5	51.1	164.1	196.4	269.1	287.9	290.6
90°	10.8	8.1	5.4	5.4	8.1	40.4	153.4	201.8	285.2	290.6	304.0
92.5°	13.5	10.8	5.4	2.7	8.1	32.3	145.3	201.8	296.0	314.8	328.3
95°	18.8	16.1	5.4	2.7	8.1	26.9	123.8	191.0	309.4	341.7	355.2
97.5°	24.2	21.5	5.4	5.4	8.1	21.5	96.9	150.7	204.5	231.4	250.2
100°	26.9	26.9	5.4	5.4	8.1	13.5	48.4	83.4	64.6	61.9	70.0
102.5°	29.6	29.6	5.4	5.4	5.4	8.1	16.1	35.0	13.5	13.5	21.5
105°	29.6	29.6	5.4	5.4	5.4	5.4	5.4	13.5	10.8	13.5	24.2
107.5°	26.9	29.6	5.4	8.1	8.1	5.4	5.4	5.4	10.8	16.1	24.2
110°	24.2	24.2	5.4	8.1	8.1	5.4	2.7	5.4	10.8	16.1	26.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	18.8	13.5	2.7	8.1	5.4	5.4	2.7	5.4	13.5	18.8	26.9
115°	8.1	5.4	2.7	5.4	5.4	5.4	2.7	5.4	13.5	21.5	26.9
117.5°	5.4	2.7	2.7	2.7	2.7	5.4	2.7	8.1	18.8	24.2	32.3
120°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	8.1	24.2	26.9	37.7
122.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	24.2	26.9	37.7
125°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	18.8	24.2	32.3
127.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	13.5	18.8	26.9
130°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	13.5	16.1	21.5
132.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	8.1	10.8	16.1
135°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	10.8
137.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
140°	2.7	0.0	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	5.4	2.7	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7
150°	5.4	8.1	13.5	10.8	5.4	2.7	5.4	2.7	2.7	2.7	2.7
152.5°	13.5	13.5	10.8	10.8	2.7	2.7	5.4	5.4	2.7	2.7	2.7
155°	10.8	10.8	8.1	2.7	2.7	2.7	2.7	5.4	8.1	10.8	8.1
157.5°	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
160°	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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°	766.8	766.8	766.8	766.8	766.8	766.8	766.8	766.8	766.8	766.8	766.8
2.5°	769.5	742.6	683.4	637.7	589.2	562.3	511.2	468.2	435.9	430.5	430.5
5°	769.5	715.7	610.8	497.8	392.8	339.0	309.4	290.6	277.1	271.7	269.1
7.5°	688.8	618.8	478.9	347.1	301.3	252.9	217.9	191.0	166.8	158.7	150.7
10°	602.7	516.6	325.6	239.5	191.0	158.7	142.6	134.5	126.5	123.8	123.8
12.5°	535.4	446.6	261.0	196.4	134.5	113.0	107.6	102.2	99.6	96.9	94.2
15°	653.8	535.4	271.7	134.5	94.2	80.7	75.3	78.0	83.4	83.4	83.4
17.5°	605.4	470.9	226.0	102.2	78.0	59.2	64.6	70.0	75.3	67.3	64.6
20°	723.8	554.3	220.6	80.7	64.6	59.2	56.5	48.4	61.9	61.9	61.9
22.5°	524.7	419.7	166.8	75.3	53.8	51.1	43.0	48.4	51.1	43.0	43.0
25°	777.6	546.2	164.1	59.2	53.8	40.4	43.0	35.0	43.0	43.0	43.0
27.5°	963.2	645.7	145.3	61.9	45.7	40.4	32.3	35.0	32.3	32.3	32.3
30°	1146.2	726.5	131.8	61.9	43.0	32.3	29.6	26.9	32.3	32.3	32.3
32.5°	1200.0	707.6	104.9	64.6	40.4	29.6	24.2	26.9	26.9	29.6	29.6
35°	1261.9	691.5	88.8	56.5	37.7	26.9	21.5	24.2	26.9	29.6	29.6
37.5°	1321.1	664.6	80.7	51.1	32.3	24.2	18.8	21.5	56.5	61.9	61.9
40°	1396.4	632.3	75.3	45.7	26.9	18.8	16.1	43.0	51.1	59.2	59.2
42.5°	1504.0	613.5	70.0	43.0	24.2	16.1	16.1	37.7	72.6	80.7	80.7
45°	1592.8	581.2	67.3	37.7	21.5	13.5	26.9	51.1	59.2	75.3	72.6
47.5°	1703.1	551.6	64.6	35.0	18.8	13.5	29.6	53.8	75.3	86.1	86.1
50°	1821.5	535.4	61.9	32.3	18.8	13.5	51.1	51.1	61.9	96.9	96.9
52.5°	1972.2	524.7	56.5	26.9	16.1	26.9	70.0	61.9	75.3	99.6	99.6
55°	2044.8	489.7	53.8	24.2	13.5	26.9	75.3	70.0	78.0	104.9	104.9
57.5°	2109.4	454.7	48.4	24.2	13.5	35.0	80.7	88.8	75.3	91.5	102.2
60°	2168.6	419.7	43.0	21.5	13.5	43.0	88.8	123.8	104.9	123.8	123.8
62.5°	2305.8	392.8	37.7	24.2	10.8	48.4	115.7	150.7	118.4	150.7	148.0
65°	2435.0	360.5	35.0	21.5	13.5	56.5	126.5	174.9	129.1	174.9	174.9
67.5°	2486.1	320.2	32.3	21.5	13.5	64.6	126.5	193.7	153.4	196.4	199.1
70°	2397.3	263.7	29.6	24.2	16.1	72.6	131.8	207.2	164.1	228.7	228.7
72.5°	2036.8	180.3	29.6	26.9	32.3	80.7	156.1	215.2	172.2	274.4	277.1
75°	1520.2	102.2	32.3	29.6	35.0	91.5	172.2	223.3	180.3	277.1	277.1
77.5°	866.4	70.0	32.3	35.0	43.0	91.5	180.3	231.4	177.6	271.7	266.4
80°	301.3	51.1	32.3	40.4	53.8	91.5	183.0	228.7	172.2	252.9	252.9
82.5°	204.5	43.0	32.3	40.4	64.6	96.9	180.3	215.2	153.4	212.6	204.5
85°	191.0	35.0	35.0	43.0	70.0	96.9	164.1	185.6	129.1	158.7	156.1
87.5°	188.3	32.3	40.4	45.7	75.3	88.8	139.9	153.4	104.9	129.1	126.5
90°	196.4	32.3	43.0	48.4	70.0	72.6	113.0	129.1	86.1	102.2	99.6
92.5°	209.9	32.3	45.7	53.8	61.9	53.8	91.5	102.2	72.6	78.0	75.3
95°	223.3	32.3	51.1	56.5	51.1	40.4	70.0	83.4	59.2	56.5	56.5
97.5°	148.0	24.2	53.8	56.5	43.0	29.6	53.8	64.6	35.0	29.6	29.6
100°	48.4	18.8	56.5	59.2	40.4	21.5	45.7	48.4	26.9	13.5	13.5
102.5°	21.5	18.8	51.1	51.1	35.0	16.1	32.3	35.0	18.8	5.4	5.4
105°	18.8	10.8	29.6	37.7	24.2	8.1	16.1	18.8	10.8	5.4	5.4
107.5°	21.5	10.8	16.1	21.5	10.8	8.1	8.1	8.1	5.4	5.4	5.4
110°	21.5	10.8	8.1	13.5	10.8	8.1	5.4	5.4	5.4	8.1	8.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.2	10.8	8.1	10.8	8.1	8.1	5.4	5.4	10.8	18.8	18.8
115°	24.2	10.8	8.1	10.8	8.1	8.1	5.4	2.7	10.8	26.9	29.6
117.5°	26.9	13.5	5.4	8.1	5.4	5.4	5.4	2.7	13.5	35.0	35.0
120°	32.3	13.5	5.4	5.4	5.4	2.7	5.4	5.4	13.5	37.7	37.7
122.5°	32.3	16.1	5.4	5.4	5.4	2.7	2.7	5.4	16.1	35.0	37.7
125°	26.9	13.5	5.4	5.4	5.4	2.7	2.7	5.4	16.1	32.3	37.7
127.5°	21.5	13.5	5.4	5.4	5.4	2.7	2.7	5.4	16.1	26.9	29.6
130°	18.8	10.8	5.4	5.4	5.4	2.7	2.7	5.4	13.5	21.5	24.2
132.5°	13.5	8.1	5.4	5.4	5.4	2.7	2.7	2.7	13.5	21.5	21.5
135°	10.8	8.1	5.4	5.4	5.4	2.7	2.7	2.7	10.8	16.1	16.1
137.5°	5.4	2.7	5.4	5.4	5.4	2.7	2.7	2.7	8.1	8.1	8.1
140°	2.7	2.7	2.7	5.4	2.7	2.7	2.7	2.7	2.7	5.4	2.7
142.5°	2.7	2.7	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
145°	2.7	2.7	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
150°	2.7	2.7	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	2.7	2.7
155°	5.4	5.4	2.7	5.4	2.7	2.7	0.0	2.7	2.7	2.7	2.7
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	2.7	2.7
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)