

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: P241067

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-SL3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5756.7 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - G2

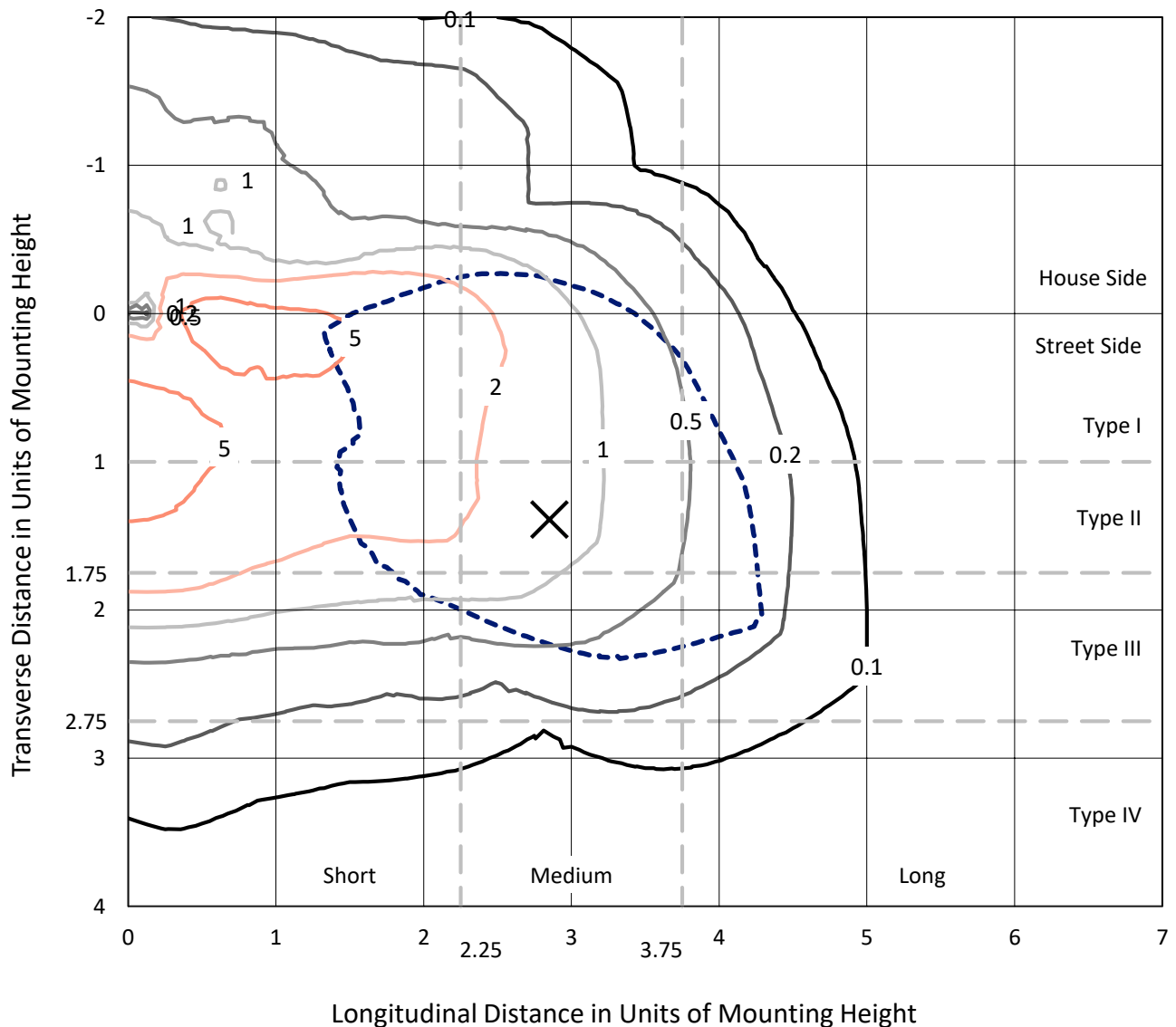
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

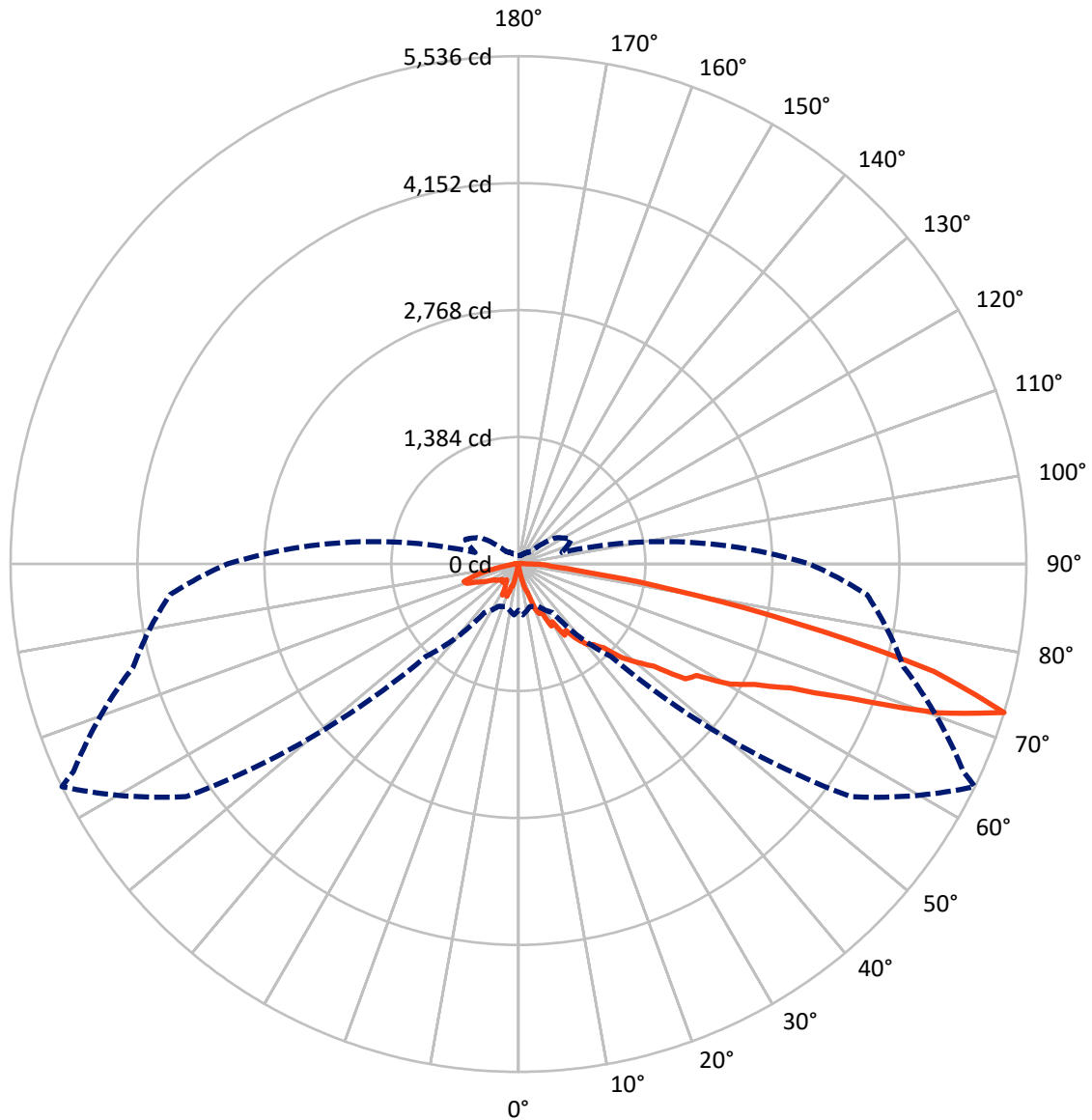
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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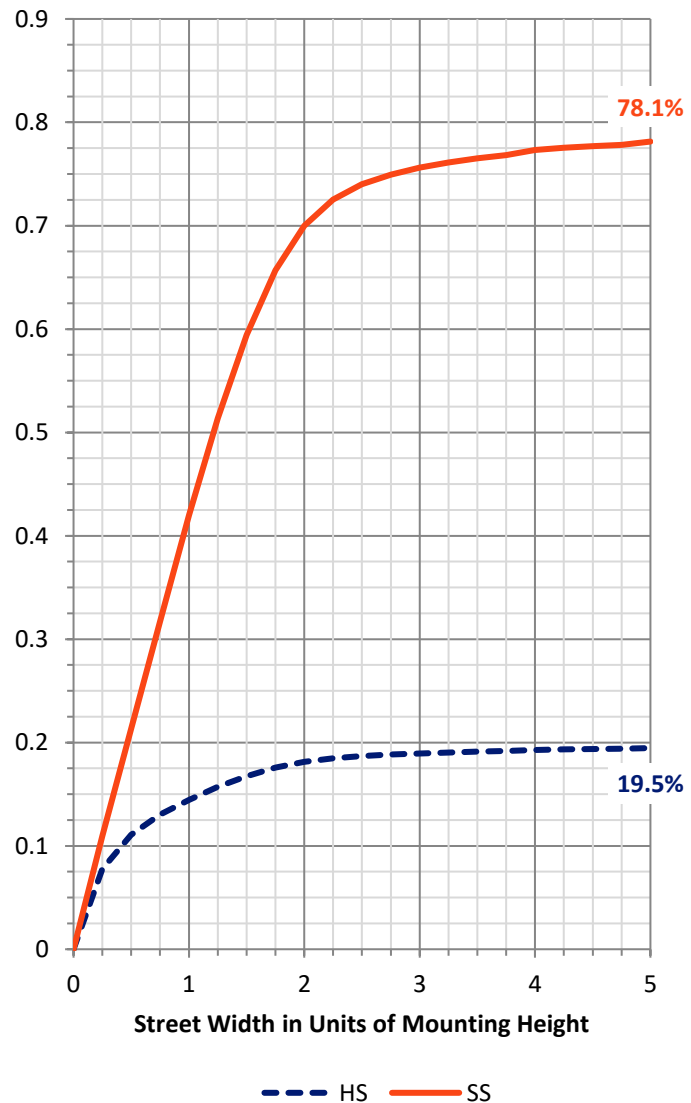
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1139.6	35.5	1175.0
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	4545.1	36.6	4581.7
	% Fixture	79.0	0.6	79.6
Total	Lumens	5684.7	72.1	5756.7
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.1
10°-20°	76.9	1.3
20°-30°	226.2	3.9
30°-40°	448.6	7.8
40°-50°	774.1	13.4
50°-60°	1251.4	21.7
60°-70°	1586.0	27.5
70°-80°	1136.3	19.7
80°-90°	178.2	3.1
90°-100°	35.9	0.6
100°-110°	16.0	0.3
110°-120°	8.2	0.1
120°-130°	6.0	0.1
130°-140°	3.7	0.1
140°-150°	1.9	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5684.7	98.7
0°-180°	5756.7	100.0

Coefficient of Utilization



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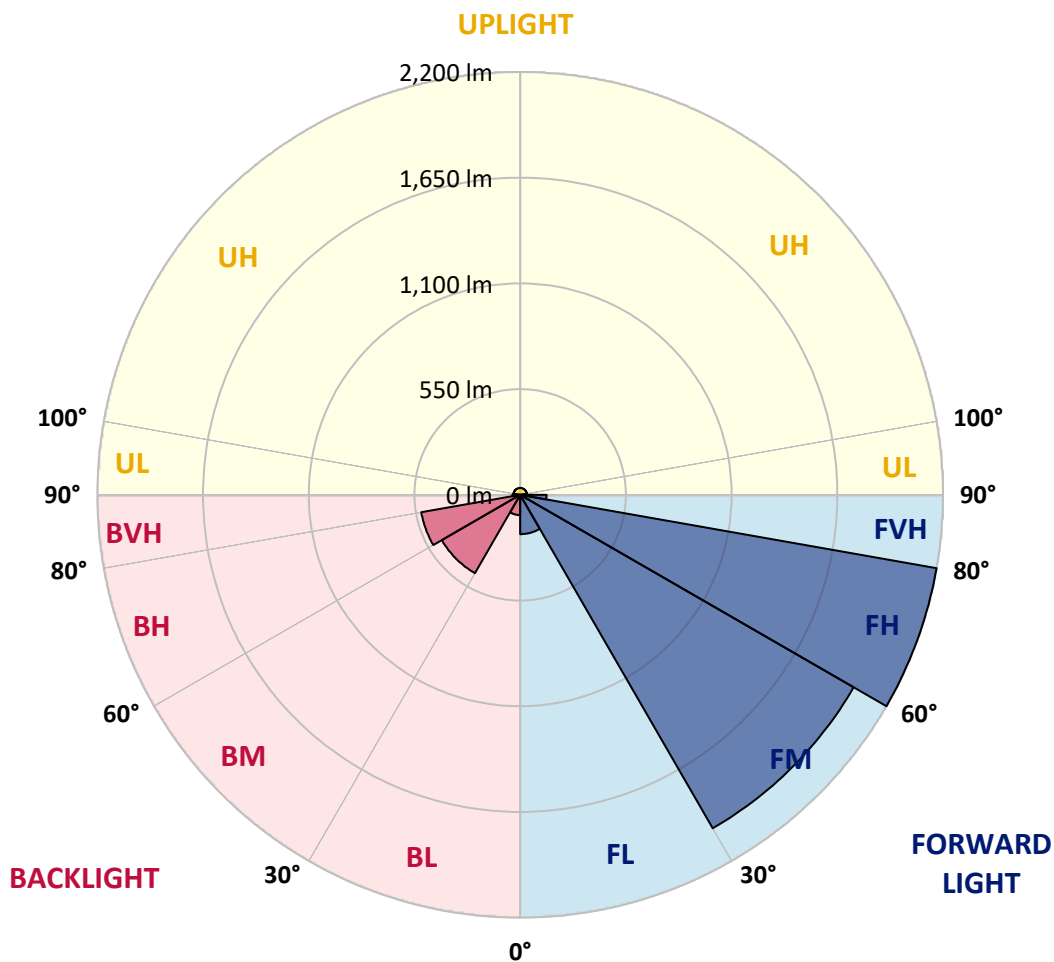
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.7	3.6			
FM	(30°-60°)	2003.3	34.8			
FH	(60°-80°)	2200.0	38.2			G2/5000
FVH	(80°-90°)	137.1	2.4			G2/225
BL	(0°-30°)	105.4	1.8	B0/110		
BM	(30°-60°)	470.8	8.2	B1/1000		
BH	(60°-80°)	522.3	9.1	B2/1000		G2/1000
BVH	(80°-90°)	41.1	0.7			G1/100
UL	(90°-100°)	35.9	0.6		U2/50	
UH	(100°-180°)	35.5	0.6		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	40.1	35.7	37.1	32.8	27.8	22.6	18.9	16.7	16.7	16.1	14.5
5°	139.2	142.1	159.6	134.2	121.8	158.9	44.5	25.4	24.0	16.7	13.8
7.5°	185.8	194.6	139.2	116.0	108.6	175.0	130.4	71.4	59.0	21.9	15.3
10°	352.1	328.0	221.6	242.0	225.2	143.5	95.5	97.7	89.7	35.7	24.8
12.5°	314.8	318.5	325.8	296.0	304.8	225.9	116.0	190.2	203.3	228.9	215.0
15°	367.3	352.1	296.0	322.2	306.9	357.2	300.4	279.9	307.6	316.3	263.1
17.5°	498.6	487.7	566.4	386.3	280.6	401.6	357.2	327.2	311.3	347.0	419.1
20°	458.5	459.2	492.0	436.6	453.4	369.6	359.4	528.5	634.1	601.4	584.5
22.5°	690.3	669.1	556.1	433.6	478.9	423.5	505.1	589.7	559.9	546.0	589.7
25°	670.7	678.6	645.0	651.6	479.6	566.4	526.3	562.6	598.4	858.7	968.0
27.5°	824.4	779.2	740.6	675.0	660.4	532.8	508.8	764.6	785.0	860.9	907.5
30°	1084.6	1062.0	991.3	770.5	689.5	572.9	696.1	731.8	744.9	1013.2	1253.8
32.5°	1376.8	1293.8	1089.8	1008.0	750.1	707.0	655.3	925.8	910.4	1123.3	1266.9
35°	1591.9	1542.4	1349.9	1096.3	901.6	755.8	881.9	890.0	968.0	1175.7	1278.6
37.5°	1546.8	1560.5	1481.1	1308.4	992.1	817.1	954.2	1036.6	1043.8	1273.4	1355.1
40°	1664.1	1672.9	1645.1	1451.9	1144.4	940.2	1072.3	1149.5	1088.2	1393.7	1448.3
42.5°	1732.7	1746.5	1799.7	1660.4	1290.9	1075.1	1257.3	1202.7	1148.8	1497.2	1647.3
45°	1882.0	1874.8	1898.1	1732.7	1508.1	1352.8	1320.1	1303.3	1323.6	1683.0	1839.1
47.5°	2090.4	2119.6	2004.5	1767.6	1671.3	1421.4	1495.8	1527.8	1605.0	1923.6	2033.7
50°	2398.8	2361.6	2223.9	1922.9	1832.5	1511.7	1832.5	1685.3	1645.1	2143.0	2324.5
52.5°	2524.2	2500.2	2304.9	1988.4	1933.1	1683.0	1889.3	1852.2	1838.3	2446.2	2648.1
55°	2573.8	2556.2	2475.4	2000.1	2024.1	1939.0	2167.0	2210.1	2186.8	2638.6	2974.7
57.5°	2442.6	2471.8	2477.6	2047.5	2086.1	1968.8	2603.6	2292.4	2459.3	2880.0	3228.3
60°	2264.7	2266.1	2343.4	2041.6	2143.6	2159.7	2698.3	2656.1	2812.2	3007.5	3298.3
62.5°	1825.1	1877.0	2004.5	2000.9	2223.9	2407.5	3164.1	2891.5	2952.8	3137.2	3517.7
65°	1210.7	1238.5	1392.9	1659.0	2081.1	2605.1	3546.9	3257.4	3344.2	3384.3	3836.9
67.5°	722.3	756.6	778.5	1059.9	1737.7	2644.5	4340.7	3906.9	3828.2	3758.2	4157.0
70°	603.5	626.2	562.6	634.1	1062.0	2401.0	4723.3	4857.4	4601.6	4264.1	4224.7
72.5°	505.9	555.5	479.6	507.3	646.5	1425.0	4421.5	5536.0	5350.2	4348.6	3811.4
75°	375.5	444.6	399.5	455.6	597.0	731.8	3336.2	4678.2	4619.8	3769.2	2828.9
77.5°	293.1	305.4	249.9	344.0	573.6	605.0	2001.6	3084.0	3033.7	2403.1	1311.9
80°	205.5	210.7	197.5	179.3	443.1	567.0	1013.9	1710.0	1603.6	746.4	435.8
82.5°	129.8	138.5	154.5	121.8	215.0	529.2	559.1	753.1	670.7	253.7	216.5
85°	78.0	85.3	95.5	85.3	100.6	404.6	433.0	387.0	353.6	154.5	137.0
87.5°	45.3	47.4	57.6	59.0	75.1	235.5	345.5	287.9	252.9	102.8	88.9
90°	31.3	29.2	29.2	30.6	38.7	102.8	169.2	100.6	101.3	54.0	46.7
92.5°	24.0	24.0	26.2	26.2	37.1	90.3	78.0	54.0	51.1	45.3	37.1
95°	18.2	19.6	19.6	21.1	25.4	27.8	38.7	40.1	40.1	40.9	32.8
97.5°	15.3	16.7	16.7	17.5	20.4	21.1	27.0	35.0	35.0	34.3	27.0
100°	14.5	15.3	14.5	14.5	16.7	16.1	21.9	29.9	31.3	29.9	23.3
102.5°	13.8	14.5	13.1	11.7	14.5	11.7	18.2	27.0	27.8	21.9	18.2
105°	13.8	13.8	11.7	9.5	11.7	9.5	15.3	18.9	18.9	15.3	17.5
107.5°	13.8	13.1	10.2	7.9	8.7	7.9	12.3	12.3	12.3	11.7	16.7
110°	12.3	11.7	9.5	7.3	6.5	6.5	8.7	8.7	8.7	10.2	16.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	10.9	10.2	7.9	5.8	5.1	5.1	5.8	6.5	6.5	9.5	16.1
115°	9.5	9.5	7.3	5.8	4.4	4.4	5.1	5.8	5.8	8.7	15.3
117.5°	9.5	9.5	6.5	5.1	3.6	3.6	4.4	5.1	5.1	8.7	16.1
120°	9.5	9.5	6.5	4.4	3.6	2.9	3.6	4.4	4.4	9.5	16.7
122.5°	8.7	8.7	6.5	4.4	2.9	2.9	2.9	4.4	4.4	8.7	15.3
125°	8.7	8.7	5.8	4.4	2.9	2.9	2.9	3.6	4.4	9.5	15.3
127.5°	7.9	7.9	6.5	4.4	2.9	2.1	2.9	3.6	3.6	8.7	14.5
130°	7.9	7.9	5.8	3.6	2.1	2.1	2.1	2.9	3.6	7.9	13.1
132.5°	7.3	7.3	5.1	3.6	2.1	1.4	2.1	2.9	2.9	7.3	11.7
135°	7.3	7.3	5.8	3.6	2.1	1.4	2.1	2.9	2.9	6.5	10.2
137.5°	6.5	6.5	5.1	3.6	2.1	1.4	1.4	2.1	2.9	6.5	9.5
140°	6.5	6.5	5.8	4.4	2.1	1.4	1.4	2.1	2.1	5.1	7.3
142.5°	7.3	7.3	5.8	3.6	2.1	1.4	1.4	1.4	2.1	3.6	5.8
145°	6.5	6.5	5.1	3.6	2.1	0.8	0.8	1.4	2.1	3.6	5.1
147.5°	6.5	6.5	5.8	3.6	1.4	0.8	0.8	1.4	1.4	2.9	4.4
150°	5.8	5.8	4.4	2.1	0.8	0.0	0.8	1.4	1.4	2.1	3.6
152.5°	4.4	4.4	2.9	1.4	0.0	0.0	0.0	0.8	0.8	1.4	2.1
155°	2.1	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	14.5	14.5	14.5	14.5	13.8	13.8	13.1	13.1	13.1	13.1	13.1
5°	13.8	13.8	13.8	13.1	12.3	11.7	12.3	11.7	11.7	11.7	11.7
7.5°	14.5	14.5	13.1	12.3	12.3	12.3	16.1	96.9	214.2	183.7	190.9
10°	27.0	25.4	21.9	18.2	16.7	96.2	183.7	168.4	128.3	107.2	110.1
12.5°	267.4	240.6	155.2	107.8	123.9	127.5	115.2	126.0	205.5	188.0	188.8
15°	267.4	274.0	224.5	252.9	218.6	102.0	196.7	234.7	228.2	209.9	220.1
17.5°	451.9	449.0	279.9	257.3	211.4	213.6	185.2	161.0	149.4	147.3	149.4
20°	669.9	558.4	533.5	388.5	237.6	218.0	153.1	129.8	165.4	204.1	209.2
22.5°	589.7	589.7	478.9	347.0	293.8	186.7	166.9	165.4	198.3	196.1	205.5
25°	995.7	865.3	620.3	334.6	256.5	189.6	169.2	153.8	172.7	199.0	196.7
27.5°	918.5	852.1	613.1	402.4	201.1	206.3	156.0	151.7	194.6	209.2	210.7
30°	1158.9	1067.9	619.6	302.5	202.6	158.9	144.3	154.5	162.6	176.4	177.9
32.5°	1200.5	1086.8	594.8	272.6	213.6	153.1	146.5	145.8	165.4	190.2	192.4
35°	1175.0	1043.1	560.5	229.6	214.2	154.5	150.1	166.2	151.7	177.1	180.8
37.5°	1349.9	1065.0	505.9	214.2	196.7	158.9	196.7	158.9	158.2	166.2	167.6
40°	1347.7	1113.8	443.9	261.6	196.7	261.6	205.5	165.4	142.1	156.0	156.7
42.5°	1456.3	1141.4	389.3	269.7	212.1	303.2	191.7	161.0	169.2	177.9	186.7
45°	1581.7	1228.9	364.5	242.8	239.1	234.7	199.7	209.9	153.1	245.7	255.8
47.5°	1753.1	1341.1	330.9	237.6	324.4	236.2	380.4	195.3	168.4	290.8	296.6
50°	2008.8	1538.7	333.8	260.9	297.4	252.9	255.8	212.1	227.4	302.5	304.0
52.5°	2281.5	1704.2	314.1	287.9	292.3	310.6	272.6	317.1	223.8	290.8	290.8
55°	2522.8	1948.4	323.6	303.2	305.4	270.4	384.1	234.1	223.0	292.3	299.6
57.5°	2837.7	2209.3	388.5	317.1	313.5	288.7	296.6	290.1	262.4	297.4	301.8
60°	3004.5	2399.6	486.9	356.4	328.0	333.1	351.4	279.1	238.4	347.7	361.5
62.5°	3269.1	2673.7	616.7	403.8	416.2	341.1	299.6	304.0	253.7	277.0	279.9
65°	3574.5	2958.6	680.8	450.4	448.3	379.0	339.7	236.2	164.8	152.3	151.7
67.5°	3804.2	3068.6	623.3	503.6	559.1	363.8	233.3	167.6	126.8	119.5	121.8
70°	3656.2	2817.2	533.5	604.3	565.6	282.1	201.1	133.4	108.6	102.0	105.7
72.5°	3172.3	2276.4	489.8	637.7	496.4	190.2	150.1	117.4	97.7	91.1	92.6
75°	2242.1	1462.9	502.9	540.1	352.8	137.7	129.8	97.7	86.8	78.0	78.0
77.5°	984.8	626.8	394.3	389.3	225.9	109.4	110.1	81.0	75.1	67.0	67.0
80°	396.5	331.6	231.7	225.2	150.9	86.0	87.5	67.0	67.7	56.9	53.2
82.5°	209.9	189.6	129.0	121.0	107.8	66.3	62.0	57.6	56.9	46.7	40.9
85°	137.7	124.7	84.5	78.7	80.2	48.8	51.8	54.6	50.3	38.7	27.0
87.5°	85.3	84.5	59.8	56.9	59.8	35.0	42.3	44.5	42.3	29.2	17.5
90°	40.1	43.7	40.1	39.4	39.4	16.7	32.8	35.0	34.3	23.3	13.8
92.5°	31.3	35.7	37.1	37.9	37.9	17.5	34.3	36.5	35.0	24.0	15.3
95°	27.0	31.3	36.5	36.5	35.7	13.8	32.1	35.7	33.6	22.6	14.5
97.5°	22.6	26.2	31.3	31.3	34.3	11.7	29.9	34.3	33.6	24.0	15.3
100°	21.1	24.8	27.8	28.4	31.3	10.9	27.0	30.6	29.9	19.6	16.1
102.5°	19.6	21.1	21.9	22.6	23.3	10.2	21.1	23.3	22.6	14.5	14.5
105°	18.2	18.2	16.1	15.3	15.3	9.5	13.1	16.1	13.1	11.7	13.1
107.5°	18.2	17.5	13.1	11.7	11.7	8.7	10.2	10.2	8.7	11.7	12.3
110°	18.2	16.7	11.7	10.2	9.5	7.9	7.9	7.3	7.3	11.7	12.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	17.5	16.1	10.2	8.7	8.7	7.3	6.5	5.8	6.5	11.7	13.1
115°	16.7	15.3	9.5	8.7	7.9	6.5	5.8	4.4	6.5	12.3	13.8
117.5°	16.7	15.3	9.5	7.9	7.3	5.8	5.1	4.4	6.5	12.3	13.8
120°	17.5	15.3	9.5	7.3	6.5	5.1	4.4	4.4	6.5	12.3	13.8
122.5°	16.7	14.5	8.7	6.5	5.8	5.1	4.4	4.4	6.5	12.3	13.1
125°	16.1	14.5	8.7	5.8	5.1	4.4	3.6	3.6	7.3	12.3	13.1
127.5°	15.3	13.8	7.9	5.1	4.4	4.4	3.6	3.6	7.3	11.7	12.3
130°	13.8	12.3	7.9	5.1	3.6	3.6	2.9	2.9	7.3	11.7	12.3
132.5°	12.3	11.7	7.3	4.4	2.9	2.9	2.9	2.9	6.5	10.2	10.9
135°	10.9	9.5	6.5	3.6	2.9	2.1	2.1	2.1	5.8	8.7	9.5
137.5°	9.5	8.7	5.8	3.6	2.1	2.1	1.4	1.4	5.1	7.9	8.7
140°	7.9	7.3	5.1	2.9	2.1	2.1	1.4	1.4	3.6	5.8	6.5
142.5°	5.8	5.8	4.4	2.9	2.1	1.4	1.4	1.4	3.6	5.1	5.8
145°	5.1	5.1	4.4	2.9	2.1	1.4	0.8	0.8	2.1	3.6	3.6
147.5°	4.4	4.4	3.6	2.9	1.4	0.8	0.8	0.8	1.4	2.1	2.1
150°	3.6	3.6	2.9	2.1	1.4	0.8	0.0	0.0	0.8	1.4	1.4
152.5°	2.1	2.1	2.1	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.4	1.4	1.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.8	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)