

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: P240959

Luminaire Tested: **UTLD-AF24-60-D-U-T3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5949 lumens
Efficiency: N/A
Efficacy: 93.0 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

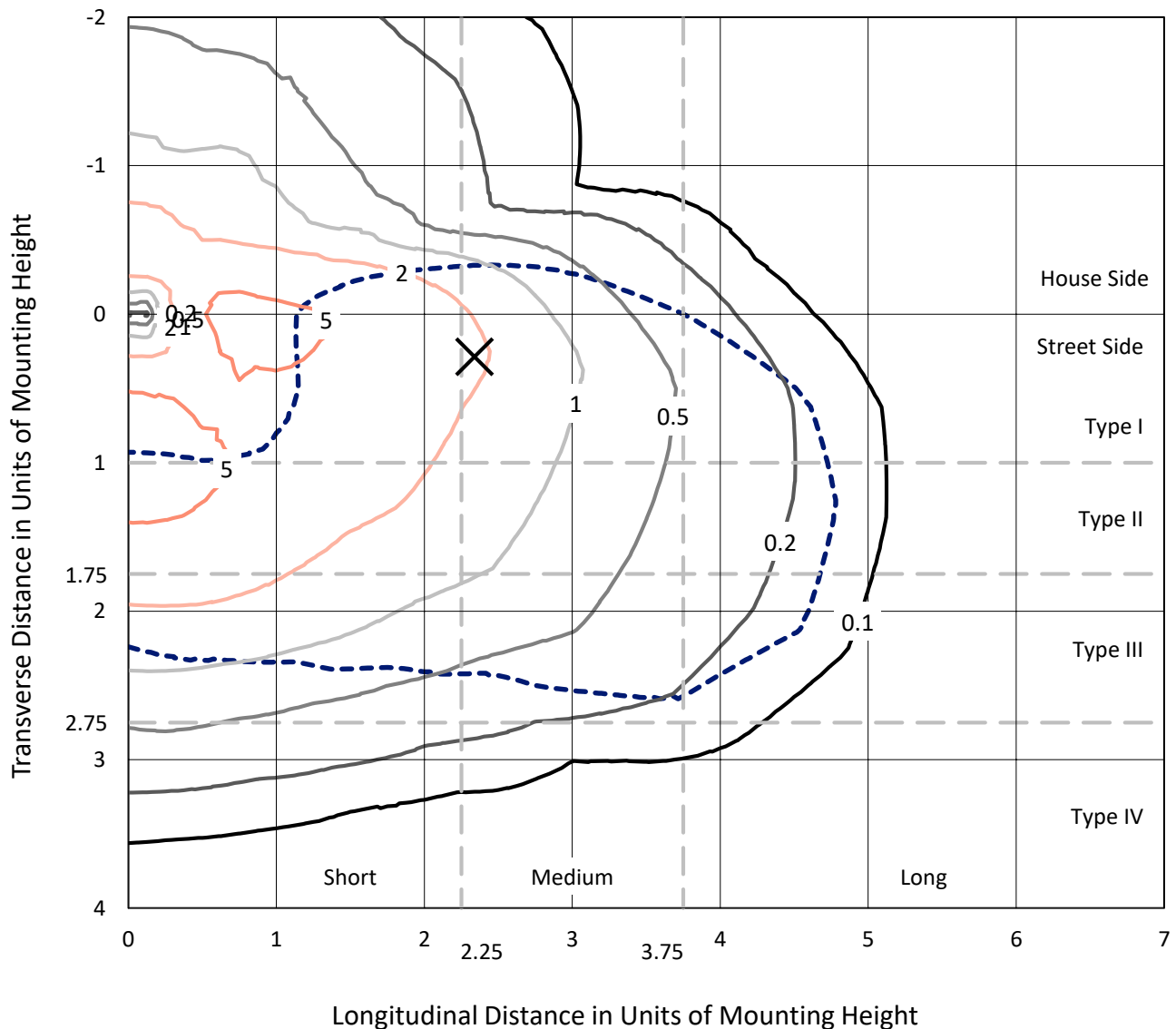


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

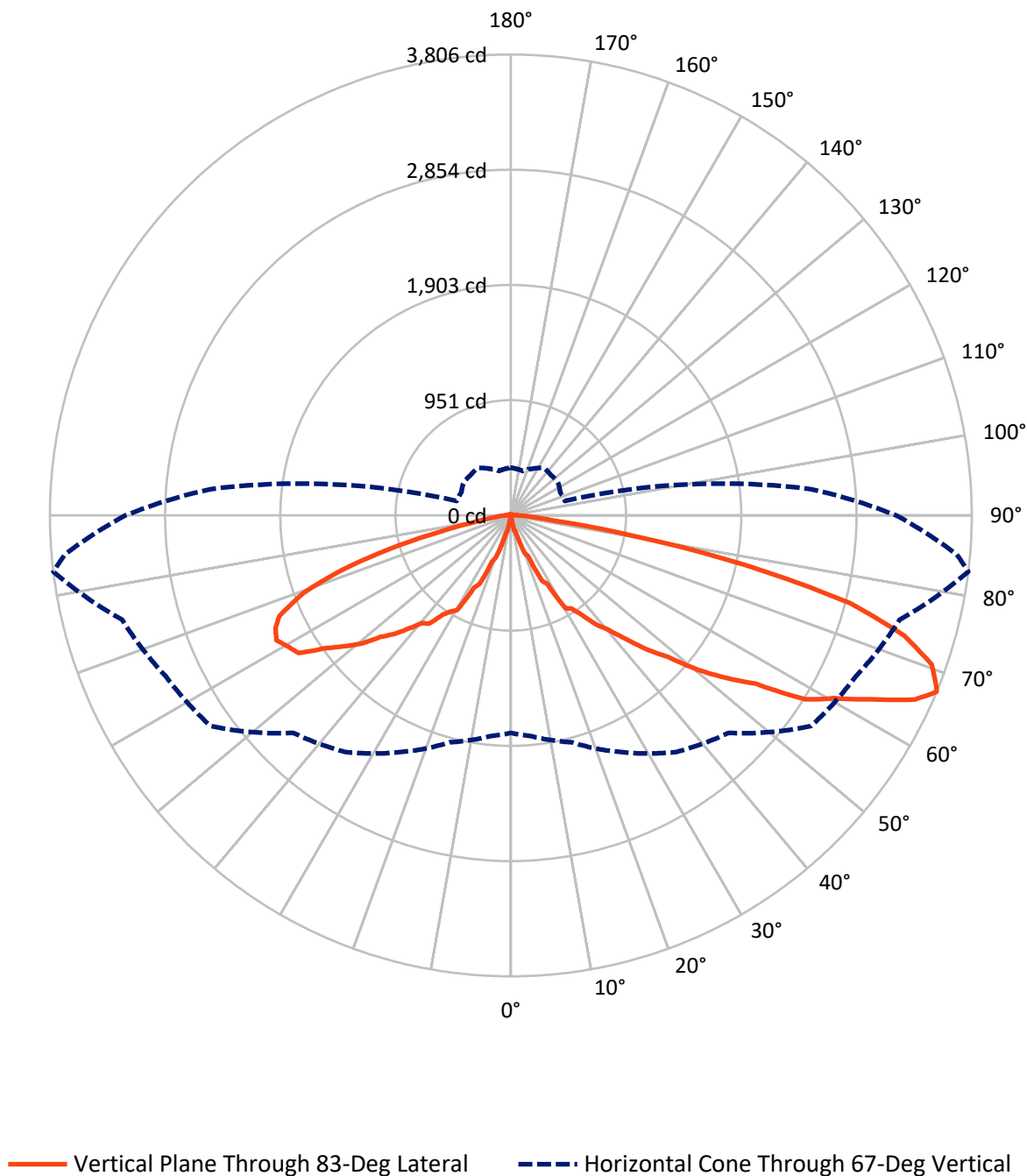


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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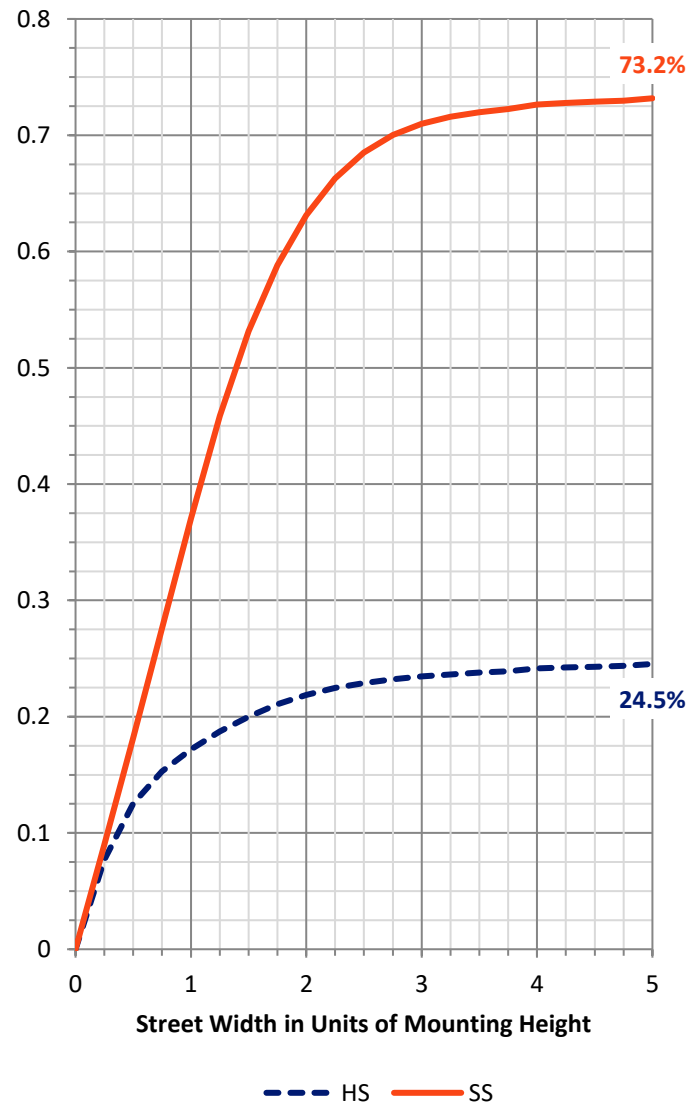
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1492.8	39.4	1532.2
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	4383.7	33.2	4416.8
	% Fixture	73.7	0.6	74.2
Total	Lumens	5876.4	72.6	5949.0
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	53.8	0.9
20°-30°	216.2	3.6
30°-40°	477.5	8.0
40°-50°	851.0	14.3
50°-60°	1365.6	23.0
60°-70°	1661.6	27.9
70°-80°	1070.7	18.0
80°-90°	175.9	3.0
90°-100°	36.2	0.6
100°-110°	16.5	0.3
110°-120°	8.3	0.1
120°-130°	6.0	0.1
130°-140°	3.7	0.1
140°-150°	1.6	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5876.4	98.8
0°-180°	5949.0	100.0

Coefficient of Utilization



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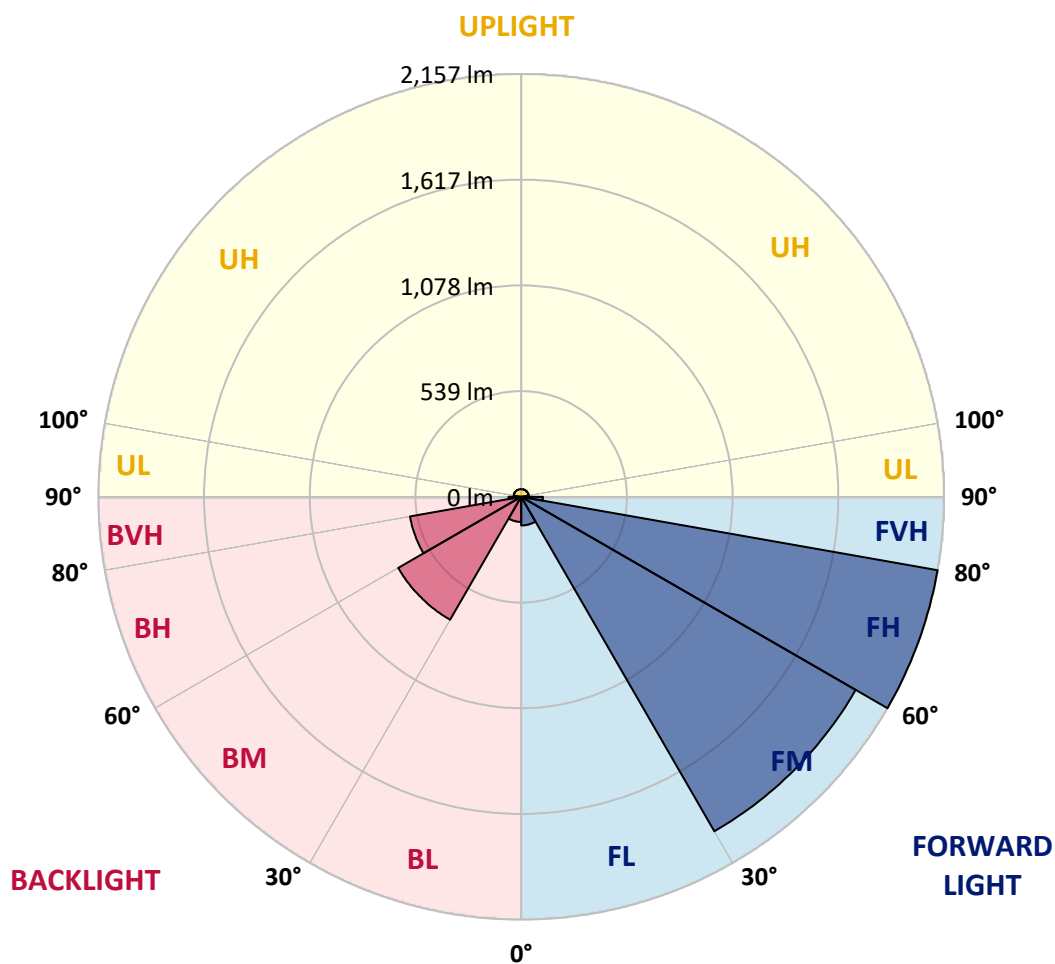
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.1	2.5			
FM	(30°-60°)	1969.8	33.1			
FH	(60°-80°)	2156.5	36.2			G2/5000
FVH	(80°-90°)	111.3	1.9			G2/225
BL	(0°-30°)	128.0	2.2	B1/500		
BM	(30°-60°)	724.2	12.2	B1/1000		
BH	(60°-80°)	575.8	9.7	B2/1000		G2/1000
BVH	(80°-90°)	64.6	1.1			G1/100
UL	(90°-100°)	36.2	0.6		U2/50	
UH	(100°-180°)	39.4	0.7		U2/50	

BUG Rating: B2-U2-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	29.9	29.9	29.9	27.0	23.3	18.9	16.7	14.5	13.8	13.8	13.8
5°	66.3	69.3	66.3	65.5	59.0	72.1	29.2	19.6	14.5	13.1	13.1
7.5°	94.1	95.5	77.2	71.4	57.6	78.6	63.4	35.7	18.2	14.5	13.8
10°	163.3	140.7	119.5	118.1	110.8	83.1	56.9	51.1	28.4	21.9	22.6
12.5°	158.2	162.6	159.6	154.5	142.1	118.8	75.8	97.7	107.2	126.0	118.8
15°	193.9	190.9	169.2	170.6	161.8	172.0	153.8	162.6	153.1	133.4	139.2
17.5°	300.3	290.1	304.0	233.3	170.6	209.2	212.8	190.2	203.3	209.9	233.3
20°	343.3	328.8	346.3	296.6	282.8	237.6	226.7	344.7	321.4	337.5	340.4
22.5°	474.5	466.5	416.2	339.7	361.5	303.2	323.6	358.0	365.2	361.5	373.2
25°	598.4	597.6	591.8	522.6	385.5	430.1	373.8	408.2	526.9	599.9	606.4
27.5°	708.4	702.6	661.1	641.5	540.1	485.4	446.1	565.6	603.5	638.5	646.5
30°	895.8	933.7	844.0	729.7	653.8	559.1	599.9	597.0	726.7	891.4	900.2
32.5°	1051.7	1030.7	937.3	841.1	763.8	690.9	631.9	833.8	869.6	914.7	935.1
35°	1282.0	1290.2	1191.7	938.1	874.6	774.1	826.5	905.3	930.1	1005.0	1010.9
37.5°	1339.6	1403.1	1345.5	1124.8	930.1	846.2	889.3	990.6	1072.2	1141.4	1097.7
40°	1593.3	1561.4	1438.1	1260.2	1044.5	947.5	1087.4	1147.2	1159.7	1240.5	1250.8
42.5°	1841.9	1855.8	1703.4	1477.4	1193.2	1101.4	1223.8	1207.8	1325.9	1395.8	1433.7
45°	2083.9	2090.4	1970.2	1684.4	1431.6	1357.9	1298.1	1366.7	1563.5	1580.2	1589.7
47.5°	2247.9	2248.5	2197.5	1910.4	1632.7	1466.5	1447.5	1521.2	1716.5	1746.4	1755.1
50°	2503.6	2497.1	2379.7	2061.2	1898.7	1681.5	1755.1	1727.5	1896.5	2004.5	2027.8
52.5°	2604.3	2571.5	2508.8	2280.7	2137.7	1922.8	1889.3	1939.6	2132.7	2230.4	2307.7
55°	2538.6	2595.6	2583.9	2419.9	2208.4	2134.9	2047.4	2236.2	2301.8	2452.0	2589.0
57.5°	2402.4	2500.1	2546.0	2484.8	2369.7	2202.6	2359.4	2330.9	2582.5	2866.6	2958.5
60°	2309.0	2369.7	2462.9	2537.2	2453.4	2392.2	2544.5	2693.2	2789.4	3066.4	3188.8
62.5°	2141.5	2199.1	2348.4	2456.3	2408.9	2429.4	2750.0	2828.0	3111.6	3342.7	3509.5
65°	1942.5	1996.3	2171.3	2284.3	2397.2	2477.5	2880.5	3031.4	3232.6	3665.5	3688.8
67°	1796.0	1827.3	1938.8	2156.0	2383.5	2539.4	3029.2	3143.0	3323.6	3805.5	3695.4
67.5°	1747.2	1777.7	1868.9	2094.1	2375.4	2548.9	3071.5	3175.7	3336.8	3790.9	3693.9
70°	1344.8	1453.3	1455.6	1670.6	2121.0	2478.9	3146.5	3288.7	3416.2	3686.0	3566.4
72.5°	805.5	805.5	842.6	1054.0	1503.6	2217.3	3146.5	3249.4	3359.4	3395.9	3194.6
75°	389.9	371.7	422.1	505.9	757.2	1495.6	2836.1	2978.2	2992.1	2892.9	2591.2
77.5°	321.4	279.1	265.3	259.5	406.0	559.7	1895.1	2325.1	2325.9	1984.7	1736.9
80°	201.1	203.3	209.2	180.1	232.5	289.3	755.8	1416.2	1287.2	1031.4	868.8
82.5°	142.1	147.3	149.4	133.4	162.6	135.6	251.6	597.6	520.4	359.4	304.8
85°	99.9	96.9	108.6	90.3	97.7	80.2	138.5	257.3	293.1	177.9	168.4
87.5°	59.8	59.8	72.8	61.1	67.0	57.6	83.8	126.0	145.8	100.6	94.1
90°	35.7	32.8	34.3	35.0	37.9	32.8	45.3	60.5	63.4	51.1	46.7
92.5°	27.0	27.0	29.2	27.8	34.3	29.9	39.4	47.4	57.6	43.7	40.9
95°	17.5	19.6	21.9	22.6	26.2	22.6	32.8	38.7	43.0	33.6	32.1
97.5°	16.1	17.5	18.9	18.9	21.9	18.2	27.0	34.3	34.3	26.2	24.0
100°	15.3	16.1	16.7	16.7	18.2	14.5	21.1	29.9	29.9	21.9	20.4
102.5°	13.8	14.5	13.8	13.1	15.3	11.7	17.5	26.2	21.1	16.7	17.5
105°	13.8	13.8	12.3	10.9	12.3	9.5	15.3	18.9	14.5	13.8	14.5
107.5°	13.1	13.1	10.2	9.5	10.2	7.9	12.3	13.1	11.7	13.1	13.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	12.3	11.7	9.5	7.9	7.9	7.3	9.5	9.5	9.5	12.3	13.8
112.5°	10.9	10.2	7.9	6.5	6.5	5.8	6.5	7.3	8.7	11.7	13.1
115°	10.2	9.5	7.3	5.8	5.1	5.1	5.8	5.8	7.9	11.7	13.1
117.5°	10.2	9.5	6.5	5.8	4.4	4.4	5.1	5.8	7.9	11.7	13.1
120°	9.5	9.5	6.5	5.1	4.4	3.6	4.4	5.1	7.9	12.3	13.1
122.5°	9.5	8.7	6.5	5.1	3.6	3.6	3.6	4.4	7.3	11.7	12.3
125°	8.7	8.7	5.8	4.4	3.6	2.9	3.6	4.4	7.9	11.7	12.3
127.5°	8.7	7.9	5.8	4.4	2.9	2.9	3.6	3.6	7.3	10.9	11.7
130°	8.7	7.9	5.8	3.6	2.9	2.9	2.9	3.6	7.3	10.2	10.9
132.5°	7.3	7.3	5.1	3.6	2.9	2.1	2.9	2.9	5.8	8.7	9.5
135°	7.3	6.5	5.1	3.6	2.9	2.1	2.1	2.9	5.8	7.9	7.9
137.5°	6.5	5.8	5.1	3.6	2.1	2.1	1.4	2.1	5.1	6.5	7.3
140°	5.8	5.8	4.4	3.6	2.1	1.4	1.4	2.1	3.6	5.1	5.8
142.5°	5.8	5.8	5.1	3.6	2.1	1.4	1.4	1.4	2.9	4.4	4.4
145°	5.1	5.1	4.4	2.9	1.4	0.8	0.8	1.4	2.1	2.9	3.6
147.5°	5.1	5.1	4.4	2.9	1.4	0.8	0.8	1.4	2.1	2.9	2.9
150°	4.4	4.4	3.6	2.1	0.8	0.0	0.0	0.8	1.4	2.1	2.1
152.5°	2.9	2.9	2.1	1.4	0.0	0.0	0.0	0.8	1.4	1.4	1.4
155°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
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°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	13.8	13.8	13.8	13.8	13.8	13.8	13.1	13.1	13.1	13.1	13.1
5°	12.3	12.3	13.1	13.1	13.1	13.1	13.1	13.8	14.5	14.5	15.3
7.5°	13.8	13.8	13.1	13.1	13.8	15.3	24.8	52.5	99.1	91.9	91.1
10°	21.9	21.9	19.6	18.2	19.6	71.4	112.2	106.4	89.7	87.5	84.5
12.5°	138.5	129.0	104.3	65.5	95.5	90.3	105.0	123.1	160.4	168.4	162.6
15°	139.2	145.1	156.7	169.8	215.0	95.5	185.0	226.7	242.0	242.0	247.2
17.5°	242.0	260.9	200.5	180.8	214.2	262.4	207.0	230.3	228.2	228.9	222.4
20°	393.6	355.7	392.1	352.1	240.5	293.7	258.1	247.2	333.1	396.5	396.5
22.5°	389.9	413.3	408.2	404.5	423.5	260.9	329.4	358.0	371.1	354.2	379.7
25°	650.8	626.0	591.8	403.8	406.0	363.0	355.7	333.8	363.0	391.3	385.5
27.5°	680.8	686.5	621.6	601.4	425.7	408.2	335.3	388.5	423.5	425.7	422.1
30°	929.4	940.9	734.0	554.0	478.1	372.5	392.1	374.6	391.3	411.2	422.1
32.5°	983.3	965.8	810.4	623.9	468.7	394.3	360.8	374.6	438.0	438.0	434.5
35°	1047.4	1034.2	835.3	592.6	510.9	368.9	333.8	373.2	391.3	423.5	425.7
37.5°	1176.4	1169.1	916.9	591.1	454.8	348.4	367.3	376.8	382.6	389.9	383.4
40°	1261.7	1205.5	941.7	617.4	440.2	403.8	382.6	355.0	360.1	341.9	333.8
42.5°	1422.0	1328.0	965.8	599.9	429.3	445.3	355.7	350.6	338.1	319.2	319.2
45°	1585.4	1465.0	997.9	564.1	414.0	432.2	366.7	358.6	347.7	344.7	338.1
47.5°	1751.5	1589.7	992.7	586.7	464.3	404.5	459.2	385.5	331.6	360.1	358.0
50°	2024.8	1792.3	997.1	542.3	462.8	397.2	459.9	365.2	355.0	376.8	379.0
52.5°	2247.9	1930.1	1057.6	516.8	448.3	459.9	435.2	442.4	418.4	411.8	419.9
55°	2514.6	2106.5	1018.3	486.2	436.6	433.6	512.4	445.3	423.5	444.5	446.8
57.5°	2849.2	2352.2	1027.0	436.6	440.2	417.7	501.5	498.6	485.4	475.3	471.6
60°	3043.1	2430.8	945.3	465.8	426.4	460.6	532.1	516.8	447.5	519.6	531.3
62.5°	3195.4	2553.3	744.9	460.6	473.7	439.6	488.4	504.3	471.6	526.3	532.8
65°	3232.6	2546.8	570.7	473.1	468.7	488.4	578.0	495.6	411.8	419.9	423.5
67°	3181.5	2489.2	462.8	450.4	475.3	470.2	478.1	425.7	380.4	388.5	394.3
67.5°	3152.4	2442.5	438.7	448.9	491.2	469.4	468.7	409.6	371.7	382.0	384.1
70°	2881.2	2188.1	367.3	443.1	486.9	426.4	438.0	360.8	328.0	331.6	333.1
72.5°	2467.3	1755.9	350.6	441.0	478.1	355.7	336.7	295.2	279.1	274.0	266.8
75°	1893.7	1209.9	346.3	397.9	392.9	269.0	269.7	245.7	247.2	236.1	231.7
77.5°	1140.6	677.9	294.5	336.7	294.5	205.5	223.0	218.0	223.8	212.1	204.9
80°	546.7	330.9	232.5	247.8	207.7	161.0	190.2	198.3	199.7	182.9	175.0
82.5°	234.0	171.3	157.5	155.2	147.9	124.7	153.8	161.8	163.3	153.1	122.5
85°	137.7	116.6	108.6	104.3	102.8	77.2	110.1	130.4	130.4	107.8	93.3
87.5°	86.0	85.3	76.5	76.5	80.2	54.6	75.8	89.7	84.5	64.1	51.1
90°	40.9	43.7	45.9	46.7	54.6	30.6	48.8	51.8	48.8	35.0	24.8
92.5°	32.8	37.1	40.1	41.5	49.6	26.2	43.7	46.7	44.5	35.0	24.8
95°	27.0	33.6	40.1	39.4	41.5	20.4	38.7	42.3	40.9	30.6	21.1
97.5°	21.9	27.0	32.8	32.8	37.9	17.5	35.7	40.1	39.4	27.8	20.4
100°	19.6	24.0	29.2	28.4	33.6	13.8	32.1	35.0	34.3	22.6	18.2
102.5°	17.5	19.6	22.6	22.6	24.8	11.7	24.0	27.0	25.4	18.9	18.2
105°	16.1	16.7	16.1	15.3	16.1	10.2	15.3	17.5	15.3	14.5	14.5
107.5°	15.3	15.3	13.1	12.3	11.7	8.7	10.9	11.7	10.2	13.1	14.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	15.3	14.5	11.7	10.9	9.5	7.9	8.7	8.7	8.7	13.1	13.8
112.5°	14.5	14.5	10.9	9.5	8.7	7.3	7.3	6.5	7.9	13.1	14.5
115°	14.5	13.8	10.2	8.7	7.3	6.5	5.8	5.8	7.3	13.1	14.5
117.5°	14.5	13.8	10.2	7.9	7.3	5.8	5.1	5.1	7.3	13.1	14.5
120°	14.5	14.5	10.2	7.3	6.5	5.8	5.1	5.1	7.3	12.3	13.8
122.5°	13.8	13.8	9.5	7.3	5.8	5.1	4.4	4.4	7.3	12.3	13.1
125°	13.1	13.1	9.5	6.5	5.1	4.4	4.4	4.4	7.3	11.7	13.1
127.5°	12.3	12.3	8.7	5.8	4.4	4.4	3.6	3.6	7.3	11.7	12.3
130°	11.7	11.7	7.9	5.1	4.4	3.6	2.9	3.6	7.3	10.9	11.7
132.5°	10.2	10.2	7.3	4.4	3.6	2.9	2.9	2.9	6.5	10.2	10.9
135°	8.7	8.7	6.5	4.4	3.6	2.9	2.1	2.9	5.8	8.7	9.5
137.5°	7.9	7.9	5.8	3.6	2.9	2.1	2.1	2.9	5.8	7.9	8.7
140°	5.8	5.8	4.4	2.9	2.1	2.1	1.4	2.1	5.1	6.5	7.3
142.5°	4.4	4.4	3.6	2.9	2.1	1.4	1.4	2.1	4.4	5.8	5.8
145°	3.6	3.6	2.9	2.1	2.1	1.4	0.8	1.4	3.6	5.1	5.1
147.5°	2.9	2.9	2.9	2.1	1.4	0.8	0.8	0.8	2.1	3.6	3.6
150°	2.1	2.1	2.1	2.1	1.4	0.0	0.0	0.0	1.4	2.1	2.1
152.5°	1.4	1.4	1.4	1.4	0.8	0.0	0.0	0.0	0.0	0.8	0.8
155°	0.8	1.4	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	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)