

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: P240961

Luminaire Tested: **UTLD-AF24-80-D-U-T3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240961
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-AF24-80-D-U-T3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 7284.3 lumens
Efficiency: N/A
Efficacy: 87.8 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): 83
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

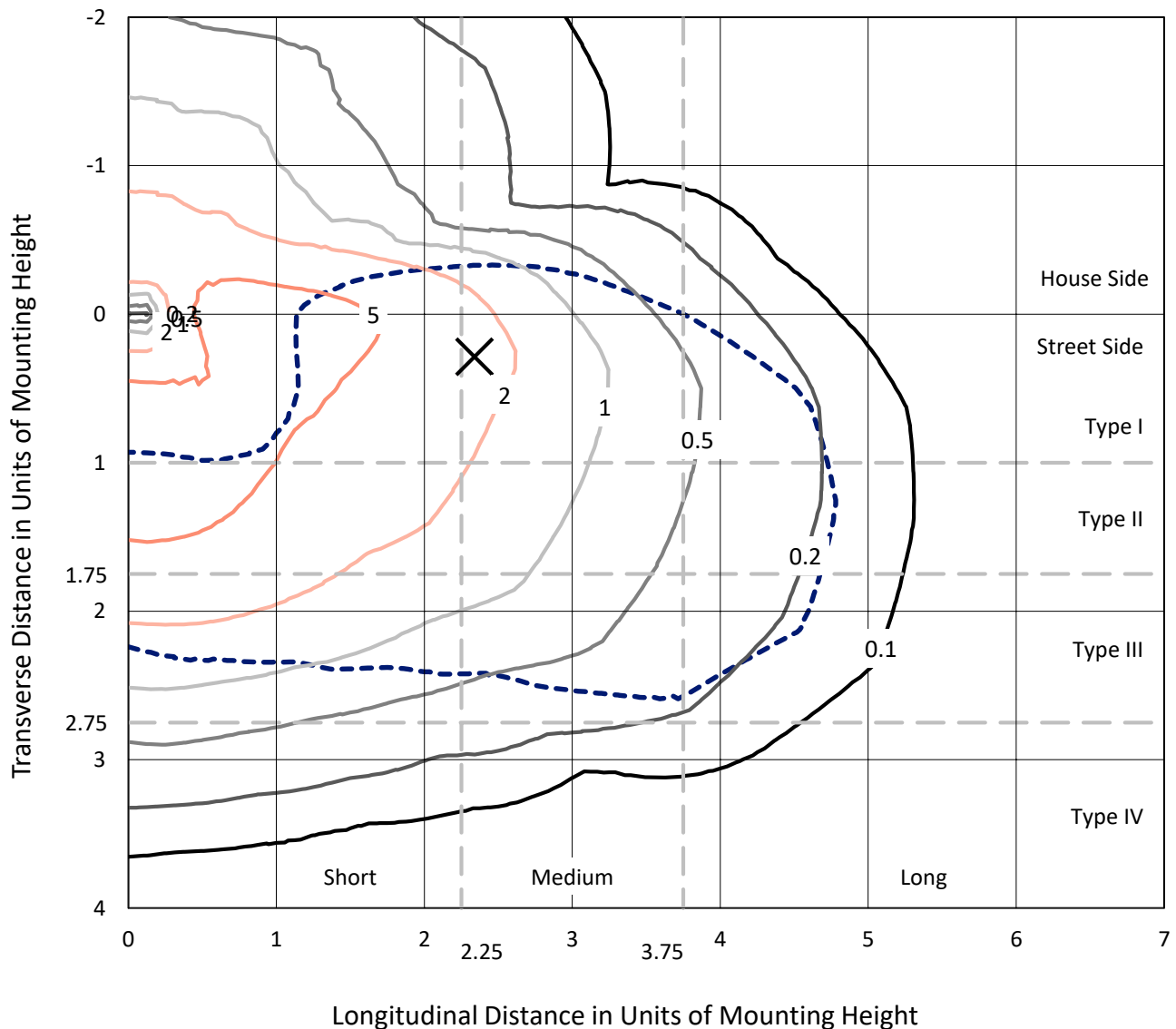


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

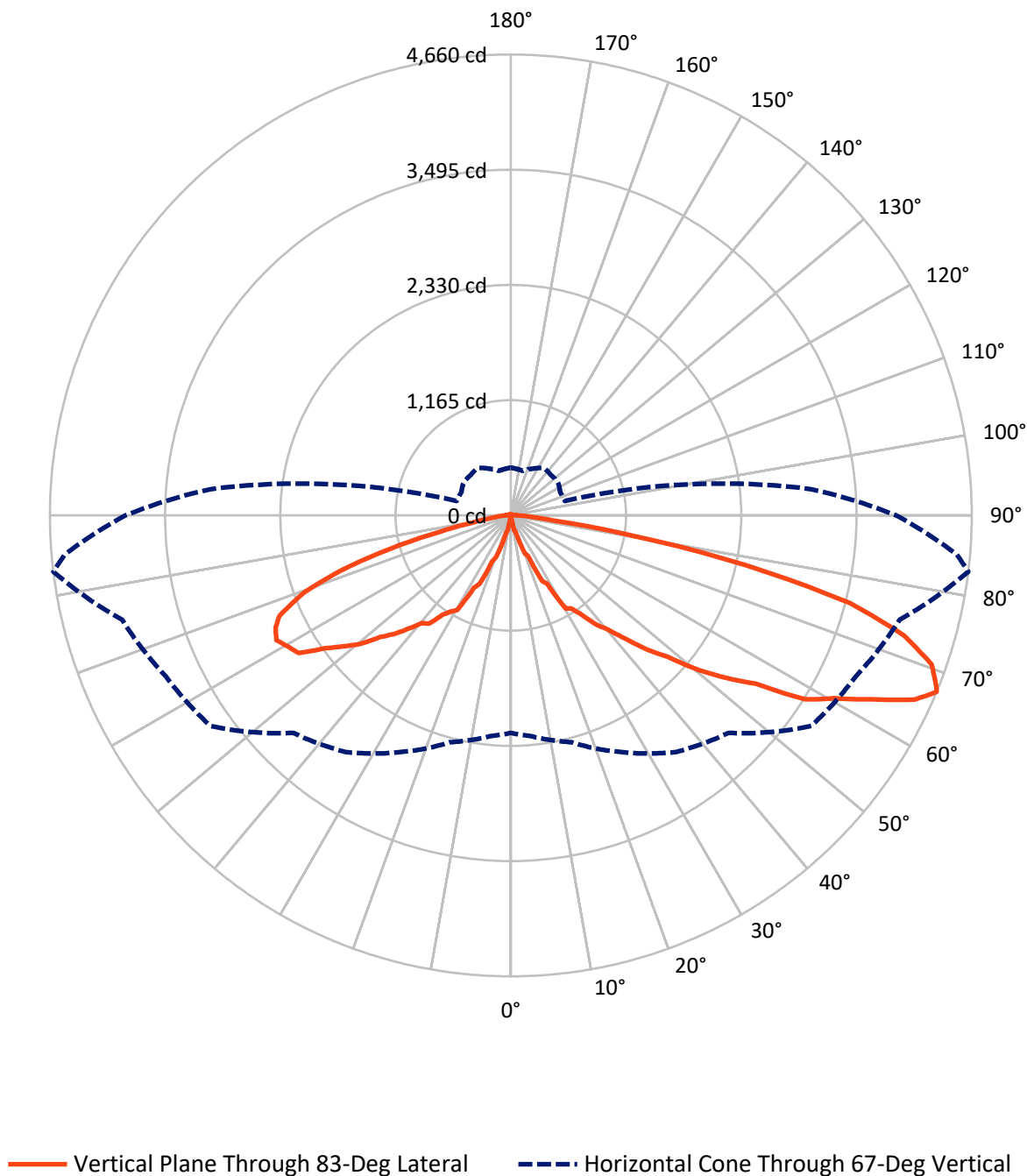


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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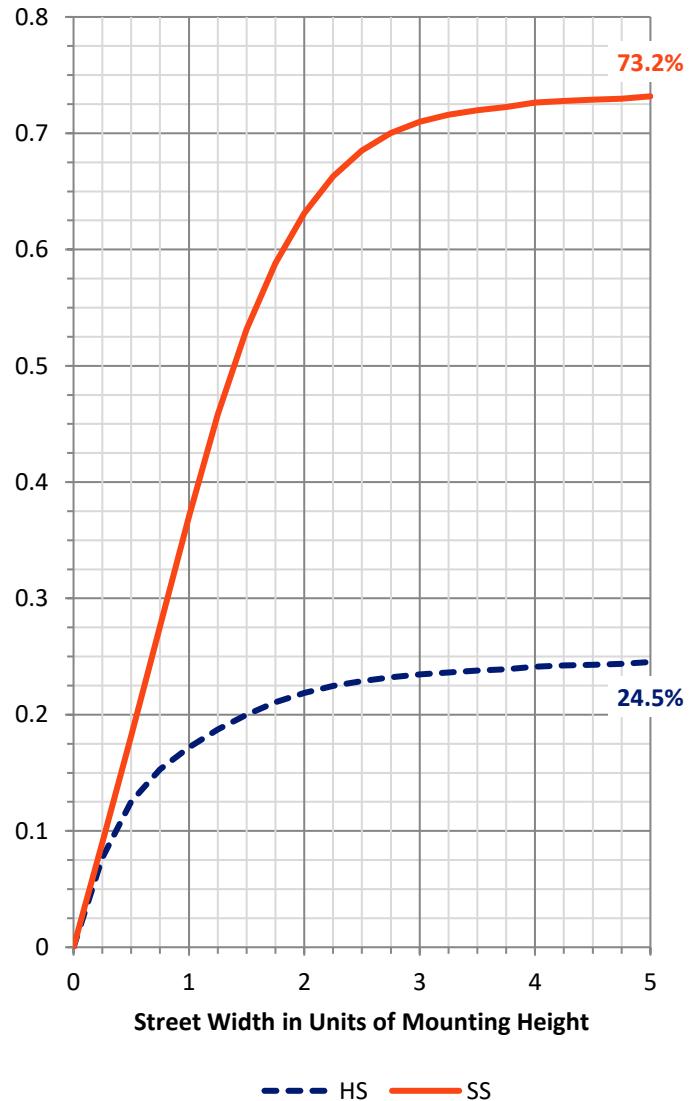
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1827.8	48.4	1876.1
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	5367.5	40.7	5408.2
	% Fixture	73.7	0.6	74.2
Total	Lumens	7195.3	89.0	7284.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	65.9	0.9
20°-30°	264.7	3.6
30°-40°	584.7	8.0
40°-50°	1041.9	14.3
50°-60°	1672.1	23.0
60°-70°	2034.5	27.9
70°-80°	1311.0	18.0
80°-90°	215.4	3.0
90°-100°	44.3	0.6
100°-110°	20.3	0.3
110°-120°	10.2	0.1
120°-130°	7.4	0.1
130°-140°	4.5	0.1
140°-150°	2.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7195.3	98.8
0°-180°	7284.3	100.0

Coefficient of Utilization



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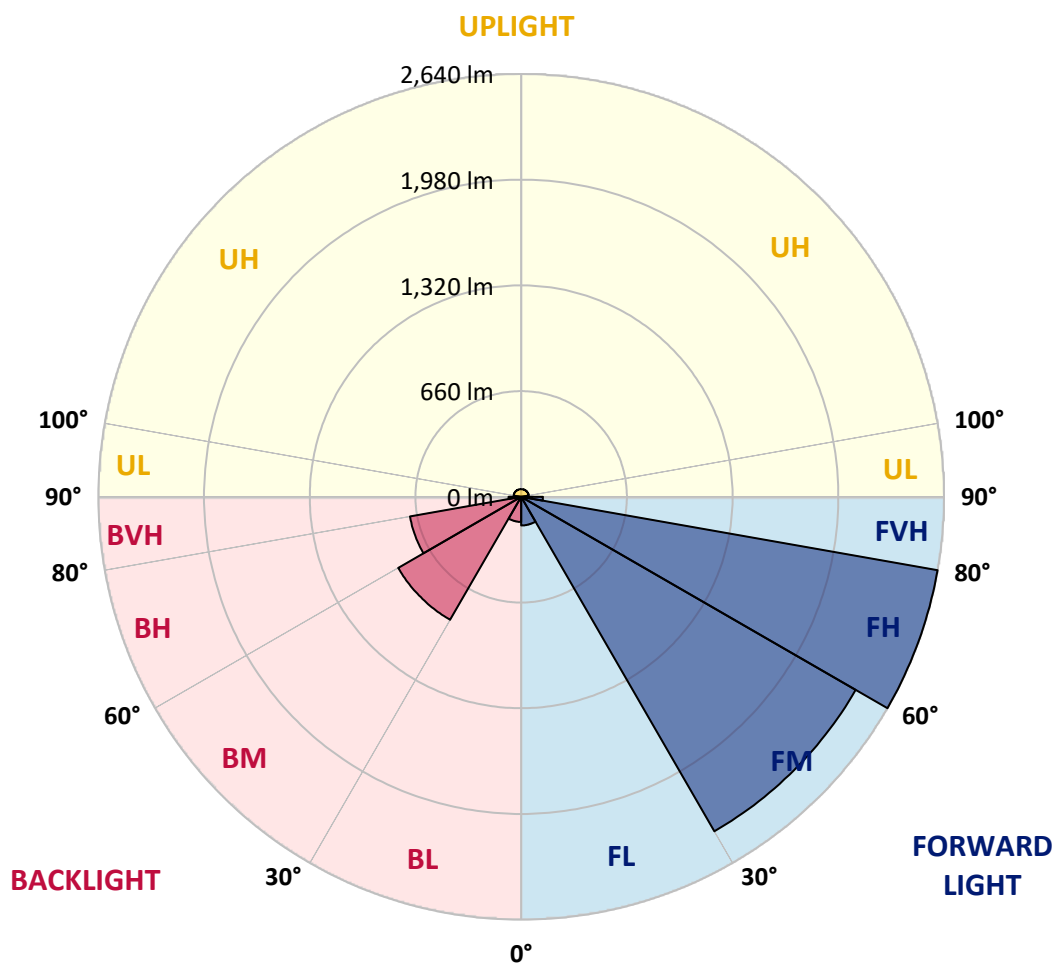
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.9	2.5			
FM	(30°-60°)	2411.9	33.1			
FH	(60°-80°)	2640.5	36.2			G2/5000
FVH	(80°-90°)	136.2	1.9			G2/225
BL	(0°-30°)	156.8	2.2	B1/500		
BM	(30°-60°)	886.8	12.2	B1/1000		
BH	(60°-80°)	705.1	9.7	B2/1000		G2/1000
BVH	(80°-90°)	79.2	1.1			G1/100
UL	(90°-100°)	44.3	0.6		U2/50	
UH	(100°-180°)	48.4	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°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	36.6	36.6	36.6	33.0	28.5	23.2	20.5	17.8	16.9	16.9	16.9
5°	81.2	84.7	81.2	80.3	72.3	88.4	35.7	24.1	17.8	16.1	16.1
7.5°	115.2	116.9	94.6	87.4	70.5	96.3	77.7	43.7	22.3	17.8	16.9
10°	200.0	172.2	146.4	144.5	135.7	101.7	69.6	62.5	34.9	26.8	27.7
12.5°	193.7	199.1	195.5	189.2	174.0	145.5	92.9	119.6	131.2	154.4	145.5
15°	237.4	233.9	207.0	208.8	198.1	210.7	188.4	199.1	187.4	163.4	170.5
17.5°	367.6	355.2	372.1	285.6	208.8	256.1	260.6	232.9	249.0	257.0	285.6
20°	420.3	402.5	423.9	363.2	346.3	290.9	277.5	422.2	393.6	413.2	416.9
22.5°	581.0	571.2	509.5	415.8	442.6	371.3	396.3	438.2	447.1	442.6	456.9
25°	732.7	731.8	724.7	639.9	472.1	526.5	457.8	499.8	645.2	734.4	742.5
27.5°	867.5	860.3	809.5	785.3	661.3	594.4	546.2	692.6	738.9	781.7	791.6
30°	1096.9	1143.3	1033.5	893.3	800.6	684.5	734.4	731.0	889.8	1091.5	1102.2
32.5°	1287.8	1262.0	1147.7	1029.9	935.3	846.1	773.8	1021.0	1064.7	1120.0	1145.0
35°	1569.8	1579.7	1459.1	1148.7	1071.0	947.9	1012.1	1108.4	1138.8	1230.7	1237.8
37.5°	1640.3	1718.0	1647.5	1377.1	1138.8	1036.1	1088.8	1212.9	1312.9	1397.7	1344.0
40°	1951.0	1911.6	1760.8	1543.1	1278.9	1160.3	1331.6	1404.7	1420.0	1518.9	1531.5
42.5°	2255.2	2272.1	2085.6	1809.0	1460.9	1348.5	1498.5	1478.9	1623.4	1709.1	1755.5
45°	2551.5	2559.6	2412.3	2062.5	1752.7	1662.7	1589.5	1673.5	1914.3	1934.9	1946.5
47.5°	2752.3	2753.3	2690.7	2339.1	1999.1	1795.6	1772.4	1862.6	2101.7	2138.3	2149.0
50°	3065.6	3057.6	2913.8	2523.9	2324.8	2058.9	2149.0	2115.2	2322.2	2454.3	2482.8
52.5°	3188.7	3148.7	3071.9	2792.5	2617.7	2354.3	2313.2	2374.9	2611.3	2730.9	2825.6
55°	3108.4	3178.1	3163.8	2963.0	2704.1	2614.0	2507.0	2738.0	2818.4	3002.2	3170.0
57.5°	2941.6	3061.1	3117.3	3042.5	2901.4	2697.1	2889.0	2854.1	3162.0	3510.1	3622.5
60°	2827.3	2901.4	3015.7	3106.7	3004.0	2929.0	3115.5	3297.7	3415.5	3754.5	3904.5
62.5°	2622.0	2692.5	2875.4	3007.6	2949.6	2974.6	3367.3	3462.8	3809.9	4092.9	4297.1
65°	2378.3	2444.4	2658.6	2796.9	2935.2	3033.5	3527.0	3711.7	3958.0	4488.2	4516.8
67°	2199.1	2237.4	2373.9	2639.9	2918.4	3109.3	3709.1	3848.3	4069.6	4659.6	4524.8
67.5°	2139.2	2176.7	2288.2	2564.0	2908.5	3120.9	3760.8	3888.4	4085.6	4641.7	4523.0
70°	1646.5	1779.7	1782.2	2045.6	2597.1	3035.2	3852.7	4026.7	4183.0	4513.2	4366.8
72.5°	986.2	986.2	1031.7	1290.5	1841.1	2714.9	3852.7	3978.5	4113.4	4158.0	3911.7
75°	477.5	455.2	516.7	619.4	927.3	1831.3	3472.6	3646.6	3663.6	3542.1	3172.7
77.5°	393.6	341.8	324.8	317.7	497.1	685.4	2320.4	2847.0	2847.9	2430.2	2126.7
80°	246.3	249.0	256.1	220.4	284.7	354.3	925.5	1734.1	1576.1	1262.8	1063.8
82.5°	174.0	180.3	182.9	163.4	199.1	166.0	307.9	731.8	637.2	440.0	373.0
85°	122.3	118.6	133.0	110.7	119.6	98.3	169.6	315.0	358.8	217.8	206.2
87.5°	73.2	73.2	89.3	75.0	82.1	70.5	102.6	154.4	178.5	123.1	115.2
90°	43.7	40.2	41.9	42.8	46.4	40.2	55.2	74.1	77.7	62.5	57.2
92.5°	33.0	33.0	35.7	33.9	41.9	36.6	48.2	58.0	70.5	53.5	49.9
95°	21.5	24.1	26.8	27.7	32.1	27.7	40.2	47.3	52.7	41.1	39.3
97.5°	19.6	21.5	23.2	23.2	26.8	22.3	33.0	41.9	41.9	32.1	29.5
100°	18.8	19.6	20.5	20.5	22.3	17.8	25.9	36.6	36.6	26.8	25.0
102.5°	16.9	17.8	16.9	16.1	18.8	14.3	21.5	32.1	25.9	20.5	21.5
105°	16.9	16.9	15.2	13.4	15.2	11.6	18.8	23.2	17.8	16.9	17.8
107.5°	16.1	16.1	12.4	11.6	12.4	9.9	15.2	16.1	14.3	16.1	16.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	15.2	14.3	11.6	9.9	9.9	9.0	11.6	11.6	11.6	15.2	16.9
112.5°	13.4	12.4	9.9	8.0	8.0	7.1	8.0	9.0	10.7	14.3	16.1
115°	12.4	11.6	9.0	7.1	6.2	6.2	7.1	7.1	9.9	14.3	16.1
117.5°	12.4	11.6	8.0	7.1	5.4	5.4	6.2	7.1	9.9	14.3	16.1
120°	11.6	11.6	8.0	6.2	5.4	4.5	5.4	6.2	9.9	15.2	16.1
122.5°	11.6	10.7	8.0	6.2	4.5	4.5	4.5	5.4	9.0	14.3	15.2
125°	10.7	10.7	7.1	5.4	4.5	3.6	4.5	5.4	9.9	14.3	15.2
127.5°	10.7	9.9	7.1	5.4	3.6	3.6	4.5	4.5	9.0	13.4	14.3
130°	10.7	9.9	7.1	4.5	3.6	3.6	3.6	4.5	9.0	12.4	13.4
132.5°	9.0	9.0	6.2	4.5	3.6	2.7	3.6	3.6	7.1	10.7	11.6
135°	9.0	8.0	6.2	4.5	3.6	2.7	2.7	3.6	7.1	9.9	9.9
137.5°	8.0	7.1	6.2	4.5	2.7	2.7	1.7	2.7	6.2	8.0	9.0
140°	7.1	7.1	5.4	4.5	2.7	1.7	1.7	2.7	4.5	6.2	7.1
142.5°	7.1	7.1	6.2	4.5	2.7	1.7	1.7	1.7	3.6	5.4	5.4
145°	6.2	6.2	5.4	3.6	1.7	0.9	0.9	1.7	2.7	3.6	4.5
147.5°	6.2	6.2	5.4	3.6	1.7	0.9	0.9	1.7	2.7	3.6	3.6
150°	5.4	5.4	4.5	2.7	0.9	0.0	0.0	0.9	1.7	2.7	2.7
152.5°	3.6	3.6	2.7	1.7	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	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°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	16.9	16.9	16.9	16.9	16.9	16.9	16.1	16.1	16.1	16.1	16.1
5°	15.2	15.2	16.1	16.1	16.1	16.1	16.1	16.9	17.8	17.8	18.8
7.5°	16.9	16.9	16.1	16.1	16.9	18.8	30.4	64.3	121.4	112.4	111.6
10°	26.8	26.8	24.1	22.3	24.1	87.4	137.4	130.3	109.8	107.1	103.6
12.5°	169.6	158.0	127.7	80.3	116.9	110.7	128.5	150.8	196.3	206.2	199.1
15°	170.5	177.5	191.9	207.9	263.4	116.9	226.7	277.5	296.3	296.3	302.5
17.5°	296.3	319.5	245.4	221.4	262.3	321.3	253.5	282.0	279.3	280.2	272.2
20°	482.0	435.5	480.2	431.0	294.6	359.7	316.0	302.5	407.9	485.5	485.5
22.5°	477.5	506.0	499.8	495.3	518.6	319.5	403.3	438.2	454.3	433.8	465.0
25°	796.9	766.7	724.7	494.4	497.1	444.4	435.5	408.7	444.4	479.2	472.1
27.5°	833.5	840.7	761.3	736.3	521.1	499.8	410.5	475.8	518.6	521.1	516.7
30°	1137.9	1152.1	898.6	678.3	585.4	456.0	480.2	458.7	479.2	503.3	516.7
32.5°	1203.9	1182.5	992.4	763.9	573.8	482.8	441.7	458.7	536.4	536.4	531.9
35°	1282.4	1266.5	1022.7	725.6	625.6	451.6	408.7	456.9	479.2	518.6	521.1
37.5°	1440.5	1431.6	1122.7	723.8	556.9	426.5	449.8	461.4	468.5	477.5	469.5
40°	1544.8	1476.1	1153.0	756.0	539.0	494.4	468.5	434.7	440.9	418.6	408.7
42.5°	1741.1	1626.1	1182.5	734.4	525.6	545.3	435.5	429.3	414.1	390.9	390.9
45°	1941.1	1793.8	1221.7	690.7	507.0	529.3	448.9	439.1	425.7	422.2	414.1
47.5°	2144.5	1946.5	1215.5	718.4	568.4	495.3	562.2	472.1	406.1	440.9	438.2
50°	2479.2	2194.6	1220.9	664.0	566.7	486.4	563.1	447.1	434.7	461.4	464.2
52.5°	2752.3	2363.3	1294.9	632.7	548.8	563.1	532.7	541.7	512.3	504.2	514.1
55°	3079.0	2579.2	1246.7	595.3	534.6	531.0	627.3	545.3	518.6	544.4	547.1
57.5°	3488.6	2880.0	1257.5	534.6	539.0	511.4	614.0	610.4	594.4	582.0	577.4
60°	3726.1	2976.3	1157.5	570.4	522.0	564.0	651.5	632.7	547.9	636.3	650.6
62.5°	3912.6	3126.2	912.1	564.0	580.0	538.1	597.9	617.6	577.4	644.3	652.4
65°	3958.0	3118.3	698.8	579.2	573.8	597.9	707.7	606.8	504.2	514.1	518.6
67°	3895.6	3047.8	566.7	551.5	582.0	575.7	585.4	521.1	465.9	475.8	482.8
67.5°	3859.9	2990.7	537.2	549.8	601.5	574.7	573.8	501.6	455.2	467.6	470.4
70°	3527.9	2679.1	449.8	542.6	596.1	522.0	536.4	441.7	401.6	406.1	407.9
72.5°	3021.0	2149.9	429.3	540.0	585.4	435.5	412.4	361.4	341.8	335.5	326.6
75°	2318.6	1481.4	423.9	487.3	481.1	329.3	330.2	300.8	302.5	289.2	283.8
77.5°	1396.7	830.0	360.5	412.4	360.5	251.7	273.0	266.8	274.0	259.7	250.7
80°	669.3	405.2	284.7	303.4	254.3	197.2	232.9	242.8	244.5	224.0	214.1
82.5°	286.5	209.8	192.8	190.1	181.2	152.6	188.4	198.1	200.0	187.4	149.9
85°	168.7	142.8	133.0	127.7	125.8	94.6	134.7	159.7	159.7	132.1	114.2
87.5°	105.3	104.5	93.8	93.8	98.3	66.9	92.9	109.8	103.6	78.5	62.5
90°	49.9	53.5	56.3	57.2	66.9	37.4	59.8	63.4	59.8	42.8	30.4
92.5°	40.2	45.6	49.0	51.0	60.6	32.1	53.5	57.2	54.4	42.8	30.4
95°	33.0	41.1	49.0	48.2	51.0	25.0	47.3	51.8	49.9	37.4	25.9
97.5°	26.8	33.0	40.2	40.2	46.4	21.5	43.7	49.0	48.2	33.9	25.0
100°	24.1	29.5	35.7	34.9	41.1	16.9	39.3	42.8	41.9	27.7	22.3
102.5°	21.5	24.1	27.7	27.7	30.4	14.3	29.5	33.0	31.2	23.2	22.3
105°	19.6	20.5	19.6	18.8	19.6	12.4	18.8	21.5	18.8	17.8	17.8
107.5°	18.8	18.8	16.1	15.2	14.3	10.7	13.4	14.3	12.4	16.1	17.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.8	17.8	14.3	13.4	11.6	9.9	10.7	10.7	10.7	16.1	16.9
112.5°	17.8	17.8	13.4	11.6	10.7	9.0	9.0	8.0	9.9	16.1	17.8
115°	17.8	16.9	12.4	10.7	9.0	8.0	7.1	7.1	9.0	16.1	17.8
117.5°	17.8	16.9	12.4	9.9	9.0	7.1	6.2	6.2	9.0	16.1	17.8
120°	17.8	17.8	12.4	9.0	8.0	7.1	6.2	6.2	9.0	15.2	16.9
122.5°	16.9	16.9	11.6	9.0	7.1	6.2	5.4	5.4	9.0	15.2	16.1
125°	16.1	16.1	11.6	8.0	6.2	5.4	5.4	5.4	9.0	14.3	16.1
127.5°	15.2	15.2	10.7	7.1	5.4	5.4	4.5	4.5	9.0	14.3	15.2
130°	14.3	14.3	9.9	6.2	5.4	4.5	3.6	4.5	9.0	13.4	14.3
132.5°	12.4	12.4	9.0	5.4	4.5	3.6	3.6	3.6	8.0	12.4	13.4
135°	10.7	10.7	8.0	5.4	4.5	3.6	2.7	3.6	7.1	10.7	11.6
137.5°	9.9	9.9	7.1	4.5	3.6	2.7	2.7	3.6	7.1	9.9	10.7
140°	7.1	7.1	5.4	3.6	2.7	2.7	1.7	2.7	6.2	8.0	9.0
142.5°	5.4	5.4	4.5	3.6	2.7	1.7	1.7	2.7	5.4	7.1	7.1
145°	4.5	4.5	3.6	2.7	2.7	1.7	0.9	1.7	4.5	6.2	6.2
147.5°	3.6	3.6	3.6	2.7	1.7	0.9	0.9	0.9	2.7	4.5	4.5
150°	2.7	2.7	2.7	2.7	1.7	0.0	0.0	0.0	1.7	2.7	2.7
152.5°	1.7	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9
155°	0.9	1.7	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	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)