

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: P240970

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240970
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 7703.8 lumens
Efficiency: N/A
Efficacy: 92.8 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



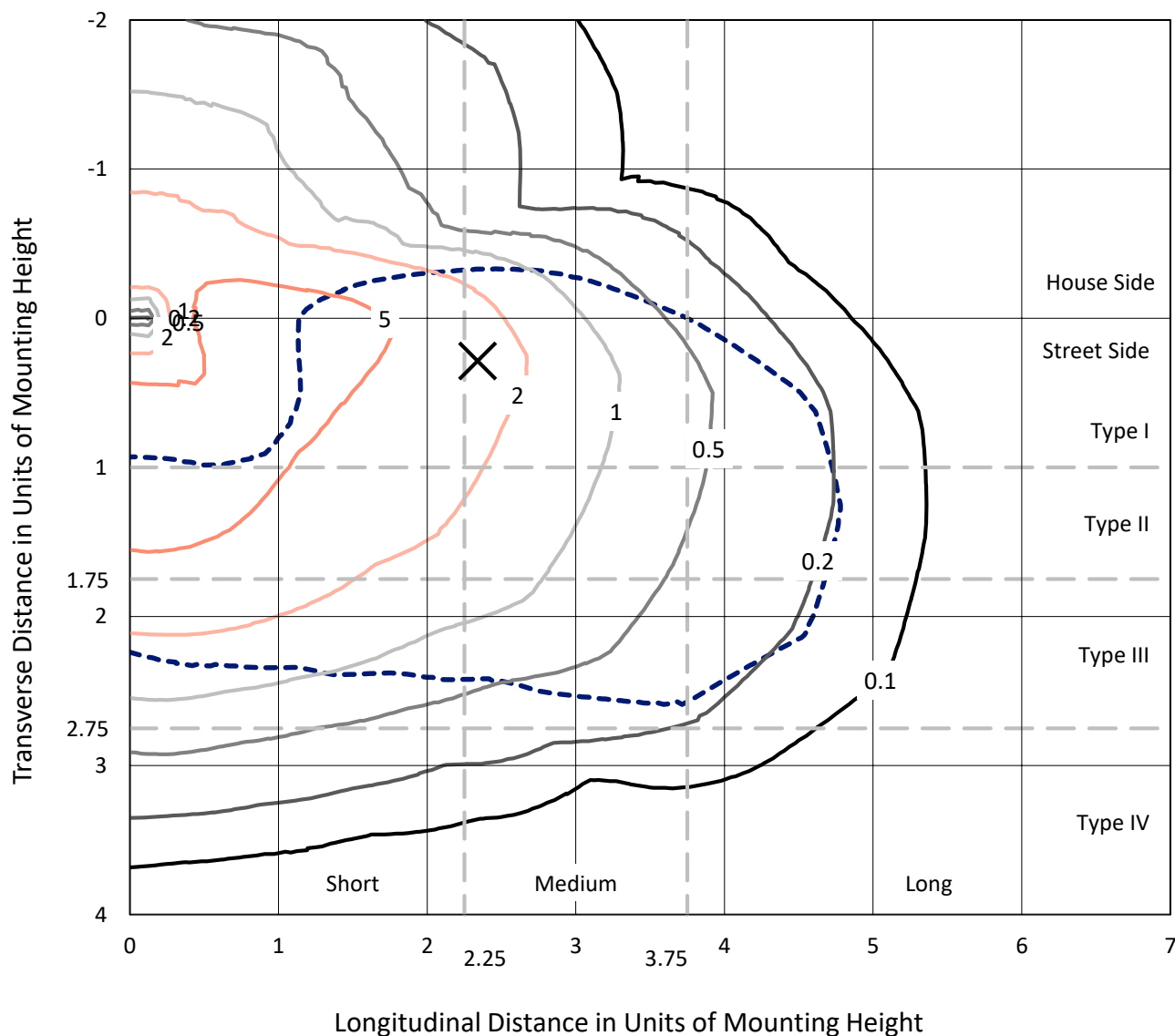
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

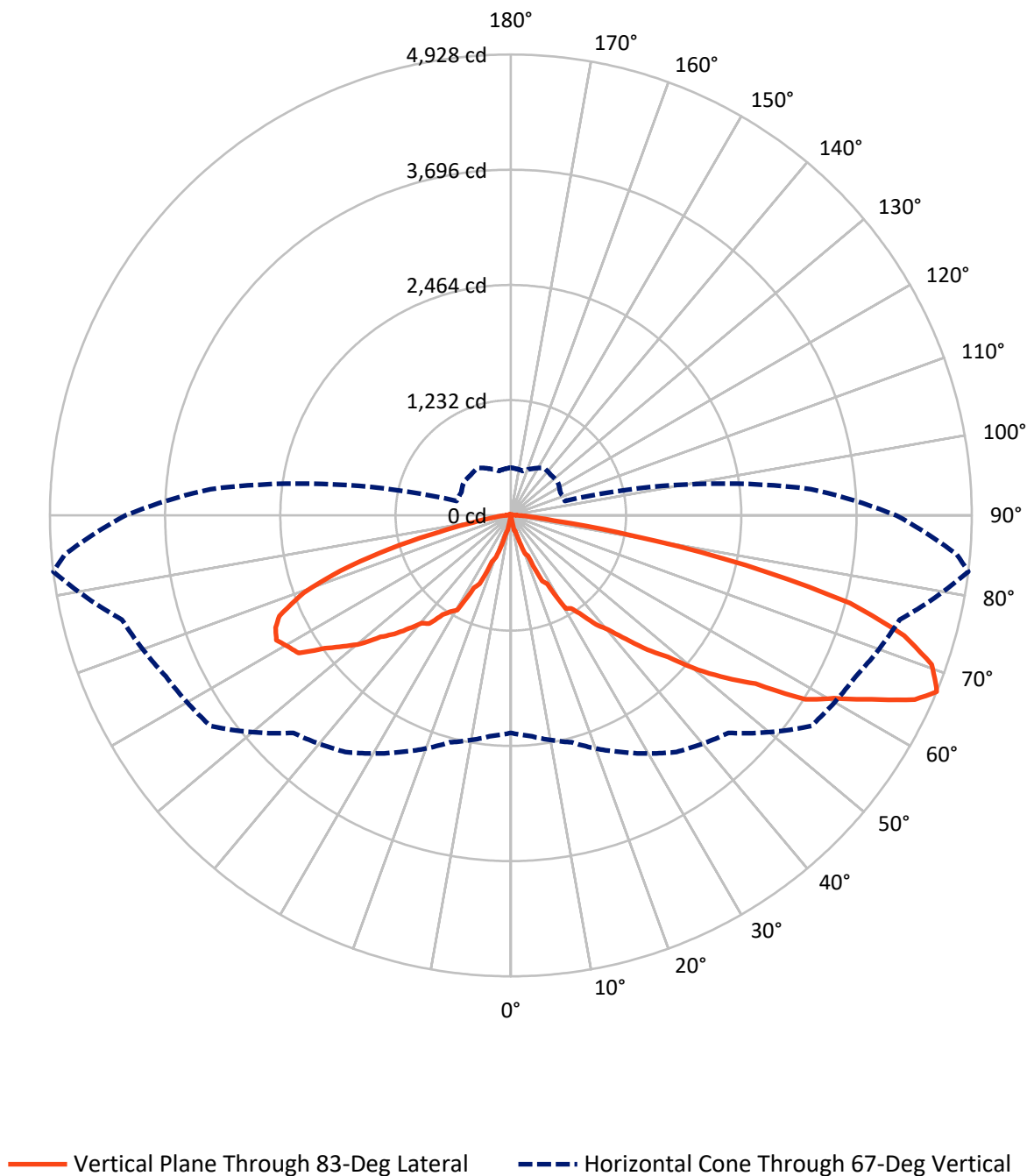


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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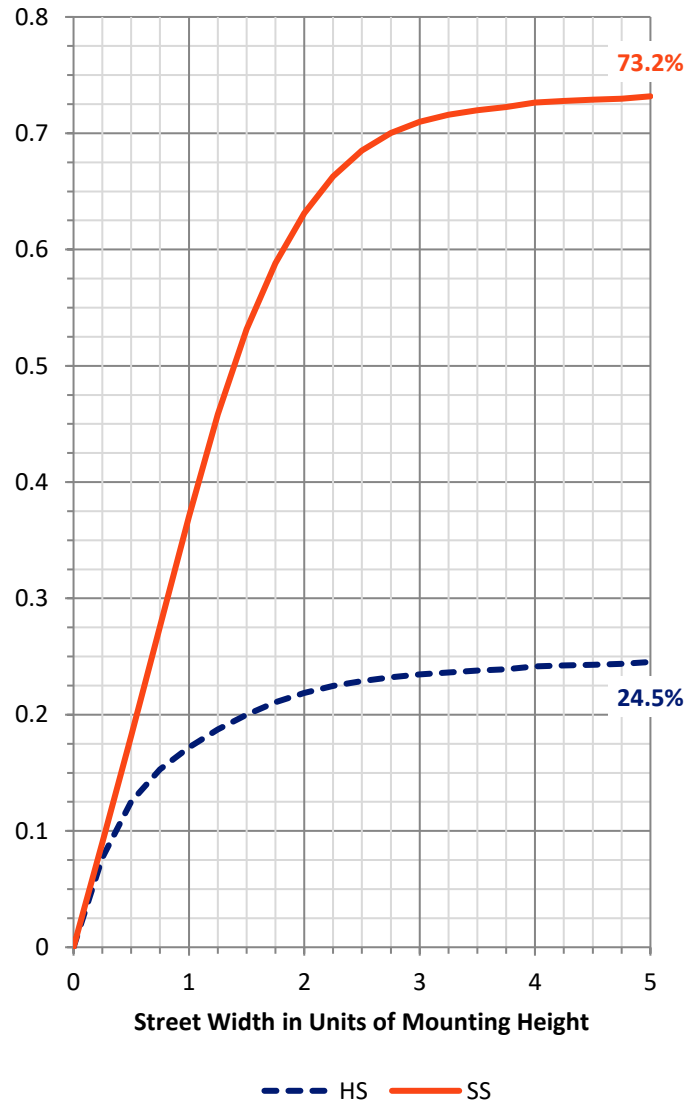
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1933.1	51.1	1984.2
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	5676.6	43.0	5719.6
	% Fixture	73.7	0.6	74.2
Total	Lumens	7609.7	94.1	7703.8
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	69.7	0.9
20°-30°	280.0	3.6
30°-40°	618.3	8.0
40°-50°	1102.0	14.3
50°-60°	1768.4	23.0
60°-70°	2151.7	27.9
70°-80°	1386.5	18.0
80°-90°	227.8	3.0
90°-100°	46.9	0.6
100°-110°	21.4	0.3
110°-120°	10.8	0.1
120°-130°	7.8	0.1
130°-140°	4.8	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7609.7	98.8
0°-180°	7703.8	100.0

Coefficient of Utilization



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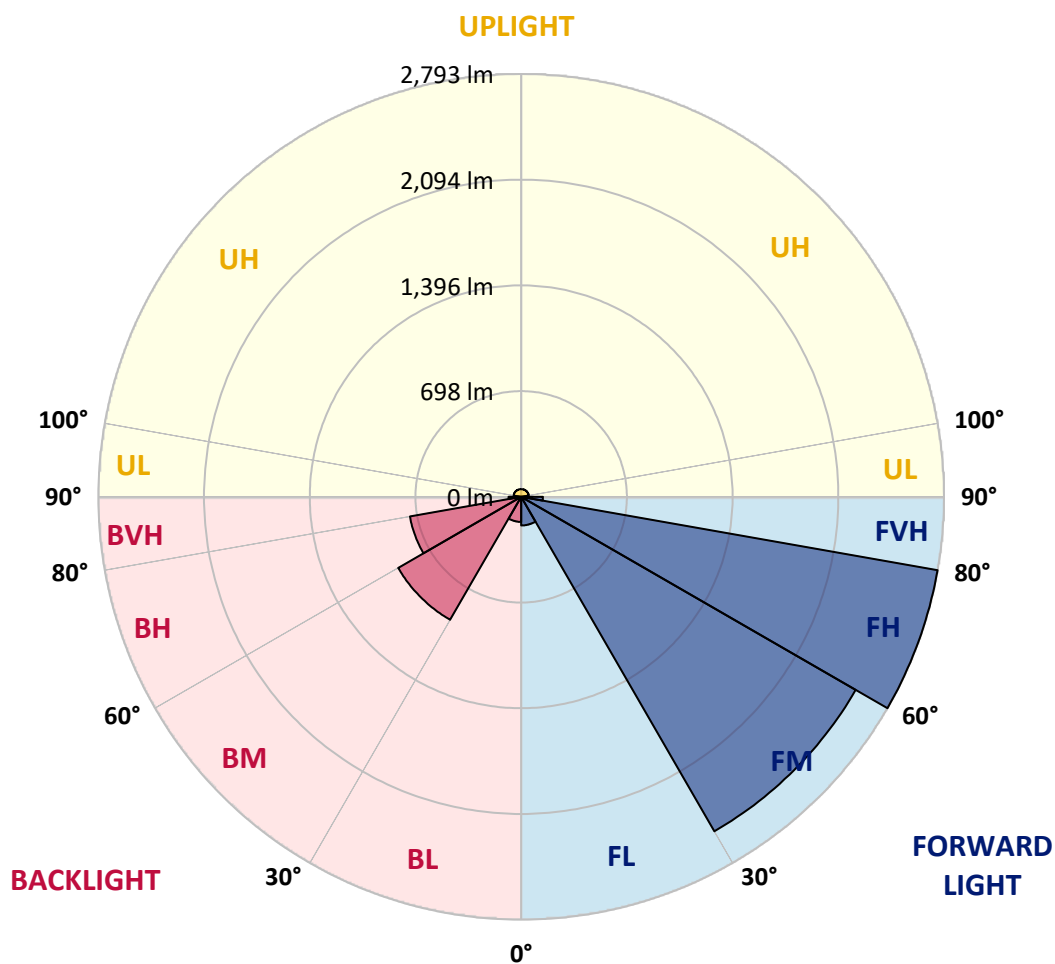
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	189.2	2.5			
FM	(30°-60°)	2550.8	33.1			
FH	(60°-80°)	2792.6	36.2			G2/5000
FVH	(80°-90°)	144.1	1.9			G2/225
BL	(0°-30°)	165.8	2.2	B1/500		
BM	(30°-60°)	937.9	12.2	B1/1000		
BH	(60°-80°)	745.7	9.7	B2/1000		G2/1000
BVH	(80°-90°)	83.7	1.1			G1/100
UL	(90°-100°)	46.9	0.6		U2/50	
UH	(100°-180°)	51.1	0.7		U3/500	

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°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
2.5°	38.7	38.7	38.7	34.9	30.2	24.6	21.7	18.9	17.9	17.9	17.9
5°	85.9	89.7	85.9	84.9	76.4	93.4	37.7	25.5	18.9	17.0	17.0
7.5°	121.7	123.7	100.0	92.5	74.6	101.9	82.1	46.2	23.6	18.9	17.9
10°	211.4	182.2	154.8	152.9	143.4	107.6	73.7	66.1	36.8	28.3	29.3
12.5°	204.8	210.5	206.7	200.1	184.0	153.9	98.2	126.4	138.7	163.3	153.9
15°	251.0	247.2	219.0	220.9	209.5	222.8	199.2	210.5	198.2	172.8	180.2
17.5°	388.8	375.6	393.6	302.1	220.9	270.9	275.6	246.3	263.3	271.8	302.1
20°	444.6	425.6	448.4	384.1	366.2	307.7	293.6	446.4	416.2	437.0	440.8
22.5°	614.5	604.1	539.0	439.9	468.2	392.6	419.1	463.4	472.9	468.2	483.2
25°	774.9	774.0	766.4	676.8	499.3	556.9	484.2	528.6	682.4	776.8	785.3
27.5°	917.4	909.9	856.1	830.6	699.4	628.6	577.7	732.4	781.5	826.9	837.2
30°	1160.0	1209.1	1093.0	944.8	846.6	723.9	776.8	773.0	941.0	1154.3	1165.7
32.5°	1362.0	1334.6	1213.8	1089.2	989.2	894.8	818.4	1079.7	1126.1	1184.6	1211.0
35°	1660.2	1670.6	1543.2	1214.8	1132.6	1002.4	1070.3	1172.3	1204.3	1301.6	1309.2
37.5°	1734.8	1817.0	1742.4	1456.4	1204.3	1095.8	1151.5	1282.7	1388.5	1478.1	1421.5
40°	2063.3	2021.8	1862.3	1631.9	1352.5	1227.0	1408.2	1485.6	1501.7	1606.4	1619.6
42.5°	2385.1	2403.1	2205.8	1913.2	1545.1	1426.2	1584.8	1564.0	1716.9	1807.5	1856.6
45°	2698.5	2707.0	2551.2	2181.2	1853.8	1758.5	1681.0	1769.7	2024.6	2046.3	2058.6
47.5°	2910.9	2911.8	2845.7	2473.9	2114.2	1899.0	1874.5	1969.8	2222.8	2261.4	2272.8
50°	3242.1	3233.6	3081.7	2669.2	2458.8	2177.5	2272.8	2237.0	2455.9	2595.6	2625.8
52.5°	3372.4	3329.9	3248.8	2953.4	2768.3	2489.9	2446.5	2511.7	2761.8	2888.2	2988.2
55°	3287.5	3361.1	3346.0	3133.6	2859.9	2764.5	2651.3	2895.8	2980.7	3175.1	3352.6
57.5°	3111.0	3237.4	3296.9	3217.6	3068.4	2852.3	3055.2	3018.4	3344.1	3712.2	3831.2
60°	2990.2	3068.4	3189.3	3285.6	3177.1	3097.7	3295.0	3487.5	3612.1	3970.8	4129.3
62.5°	2773.0	2847.6	3041.1	3180.8	3119.5	3145.9	3561.2	3662.2	4029.3	4328.5	4544.7
65°	2515.4	2585.2	2811.8	2958.1	3104.3	3208.2	3730.1	3925.5	4186.0	4746.7	4776.9
67°	2325.7	2366.3	2510.6	2791.9	3086.4	3288.4	3922.7	4069.9	4304.0	4927.9	4785.4
67.5°	2262.5	2302.0	2420.1	2711.7	3076.0	3300.7	3977.4	4112.4	4320.9	4909.0	4783.5
70°	1741.5	1882.0	1884.9	2163.3	2746.6	3210.0	4074.6	4258.6	4423.9	4773.1	4618.3
72.5°	1043.0	1043.0	1091.1	1364.8	1947.2	2871.2	4074.6	4207.7	4350.2	4397.5	4136.9
75°	504.9	481.4	546.5	655.0	980.7	1936.8	3672.6	3856.6	3874.5	3746.1	3355.4
77.5°	416.2	361.5	343.6	336.0	525.7	724.9	2454.1	3011.0	3011.9	2570.2	2249.3
80°	260.5	263.3	270.9	233.1	301.1	374.7	978.8	1833.9	1666.9	1335.6	1125.0
82.5°	184.0	190.7	193.5	172.8	210.5	175.5	325.6	774.0	673.9	465.3	394.6
85°	129.3	125.5	140.7	117.0	126.4	103.8	179.3	333.2	379.4	230.3	218.0
87.5°	77.4	77.4	94.4	79.3	86.8	74.6	108.5	163.3	188.7	130.2	121.7
90°	46.2	42.5	44.4	45.3	49.1	42.5	58.5	78.4	82.1	66.1	60.5
92.5°	34.9	34.9	37.7	35.9	44.4	38.7	50.9	61.4	74.6	56.7	52.9
95°	22.6	25.5	28.3	29.3	34.0	29.3	42.5	50.0	55.6	43.4	41.5
97.5°	20.8	22.6	24.6	24.6	28.3	23.6	34.9	44.4	44.4	34.0	31.1
100°	19.8	20.8	21.7	21.7	23.6	18.9	27.4	38.7	38.7	28.3	26.4
102.5°	17.9	18.9	17.9	17.0	19.8	15.1	22.6	34.0	27.4	21.7	22.6
105°	17.9	17.9	16.1	14.1	16.1	12.3	19.8	24.6	18.9	17.9	18.9
107.5°	17.0	17.0	13.2	12.3	13.2	10.3	16.1	17.0	15.1	17.0	17.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	16.1	15.1	12.3	10.3	10.3	9.4	12.3	12.3	12.3	16.1	17.9
112.5°	14.1	13.2	10.3	8.5	8.5	7.6	8.5	9.4	11.4	15.1	17.0
115°	13.2	12.3	9.4	7.6	6.6	6.6	7.6	7.6	10.3	15.1	17.0
117.5°	13.2	12.3	8.5	7.6	5.6	5.6	6.6	7.6	10.3	15.1	17.0
120°	12.3	12.3	8.5	6.6	5.6	4.7	5.6	6.6	10.3	16.1	17.0
122.5°	12.3	11.4	8.5	6.6	4.7	4.7	4.7	5.6	9.4	15.1	16.1
125°	11.4	11.4	7.6	5.6	4.7	3.8	4.7	5.6	10.3	15.1	16.1
127.5°	11.4	10.3	7.6	5.6	3.8	3.8	4.7	4.7	9.4	14.1	15.1
130°	11.4	10.3	7.6	4.7	3.8	3.8	3.8	4.7	9.4	13.2	14.1
132.5°	9.4	9.4	6.6	4.7	3.8	2.9	3.8	3.8	7.6	11.4	12.3
135°	9.4	8.5	6.6	4.7	3.8	2.9	2.9	3.8	7.6	10.3	10.3
137.5°	8.5	7.6	6.6	4.7	2.9	2.9	1.8	2.9	6.6	8.5	9.4
140°	7.6	7.6	5.6	4.7	2.9	1.8	1.8	2.9	4.7	6.6	7.6
142.5°	7.6	7.6	6.6	4.7	2.9	1.8	1.8	1.8	3.8	5.6	5.6
145°	6.6	6.6	5.6	3.8	1.8	0.9	0.9	1.8	2.9	3.8	4.7
147.5°	6.6	6.6	5.6	3.8	1.8	0.9	0.9	1.8	2.9	3.8	3.8
150°	5.6	5.6	4.7	2.9	0.9	0.0	0.0	0.9	1.8	2.9	2.9
152.5°	3.8	3.8	2.9	1.8	0.0	0.0	0.0	0.9	1.8	1.8	1.8
155°	1.8	1.8	1.8	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°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
2.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.0	17.0	17.0	17.0	17.0
5°	16.1	16.1	17.0	17.0	17.0	17.0	17.0	17.9	18.9	18.9	19.8
7.5°	17.9	17.9	17.0	17.0	17.9	19.8	32.1	67.9	128.4	119.0	117.9
10°	28.3	28.3	25.5	23.6	25.5	92.5	145.4	137.8	116.1	113.2	109.5
12.5°	179.3	167.0	134.9	84.9	123.7	117.0	136.0	159.5	207.7	218.0	210.5
15°	180.2	187.8	203.0	219.9	278.4	123.7	239.8	293.6	313.3	313.3	320.0
17.5°	313.3	337.9	259.5	234.1	277.5	339.8	268.0	298.3	295.4	296.3	287.9
20°	509.6	460.6	507.8	455.9	311.5	380.3	334.1	320.0	431.4	513.4	513.4
22.5°	504.9	535.2	528.6	523.9	548.4	337.9	426.7	463.4	480.4	458.7	491.7
25°	842.9	810.8	766.4	522.9	525.7	470.0	460.6	432.3	470.0	506.9	499.3
27.5°	881.6	889.1	805.1	778.7	551.2	528.6	434.1	503.1	548.4	551.2	546.5
30°	1203.4	1218.5	950.4	717.3	619.2	482.3	507.8	485.2	506.9	532.3	546.5
32.5°	1273.3	1250.7	1049.5	807.9	606.9	510.7	467.2	485.2	567.2	567.2	562.5
35°	1356.3	1339.3	1081.7	767.3	661.6	477.6	432.3	483.2	506.9	548.4	551.2
37.5°	1523.4	1514.0	1187.3	765.5	589.0	451.1	475.7	487.9	495.5	504.9	496.4
40°	1633.9	1561.1	1219.5	799.4	570.1	522.9	495.5	459.6	466.3	442.6	432.3
42.5°	1841.5	1719.7	1250.7	776.8	556.0	576.7	460.6	454.0	437.9	413.4	413.4
45°	2052.9	1897.2	1292.2	730.6	536.1	559.8	474.8	464.4	450.2	446.4	437.9
47.5°	2268.1	2058.6	1285.5	759.8	601.2	523.9	594.6	499.3	429.4	466.3	463.4
50°	2622.0	2321.0	1291.2	702.3	599.3	514.4	595.6	472.9	459.6	487.9	490.8
52.5°	2910.9	2499.4	1369.5	669.2	580.5	595.6	563.4	573.0	541.8	533.3	543.7
55°	3256.4	2727.8	1318.6	629.5	565.4	561.6	663.5	576.7	548.4	575.7	578.6
57.5°	3689.6	3045.8	1329.9	565.4	570.1	540.8	649.4	645.6	628.6	615.4	610.7
60°	3940.6	3147.7	1224.2	603.1	552.2	596.5	689.1	669.2	579.5	673.0	688.0
62.5°	4137.8	3306.4	964.6	596.5	613.5	569.2	632.4	653.2	610.7	681.5	690.0
65°	4186.0	3297.9	739.1	612.5	606.9	632.4	748.5	641.8	533.3	543.7	548.4
67°	4119.9	3223.3	599.3	583.3	615.4	608.8	619.2	551.2	492.7	503.1	510.7
67.5°	4082.2	3162.9	568.2	581.4	636.2	607.8	606.9	530.4	481.4	494.6	497.5
70°	3731.1	2833.5	475.7	573.9	630.5	552.2	567.2	467.2	424.7	429.4	431.4
72.5°	3195.0	2273.7	454.0	571.0	619.2	460.6	436.1	382.3	361.5	354.9	345.5
75°	2452.1	1566.9	448.4	515.4	508.7	348.3	349.2	318.0	320.0	305.8	300.1
77.5°	1477.1	877.8	381.4	436.1	381.4	266.2	288.8	282.2	289.8	274.7	265.3
80°	707.9	428.5	301.1	320.9	269.0	208.6	246.3	256.8	258.6	236.9	226.5
82.5°	303.0	221.8	203.9	201.0	191.6	161.4	199.2	209.5	211.4	198.2	158.6
85°	178.4	151.0	140.7	134.9	133.1	100.0	142.5	169.0	169.0	139.7	120.8
87.5°	111.4	110.5	99.1	99.1	103.8	70.8	98.2	116.1	109.5	83.1	66.1
90°	52.9	56.7	59.4	60.5	70.8	39.7	63.2	67.0	63.2	45.3	32.1
92.5°	42.5	48.2	51.9	53.8	64.1	34.0	56.7	60.5	57.6	45.3	32.1
95°	34.9	43.4	51.9	50.9	53.8	26.4	50.0	54.7	52.9	39.7	27.4
97.5°	28.3	34.9	42.5	42.5	49.1	22.6	46.2	51.9	50.9	35.9	26.4
100°	25.5	31.1	37.7	36.8	43.4	17.9	41.5	45.3	44.4	29.3	23.6
102.5°	22.6	25.5	29.3	29.3	32.1	15.1	31.1	34.9	33.0	24.6	23.6
105°	20.8	21.7	20.8	19.8	20.8	13.2	19.8	22.6	19.8	18.9	18.9
107.5°	19.8	19.8	17.0	16.1	15.1	11.4	14.1	15.1	13.2	17.0	18.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	19.8	18.9	15.1	14.1	12.3	10.3	11.4	11.4	11.4	17.0	17.9
112.5°	18.9	18.9	14.1	12.3	11.4	9.4	9.4	8.5	10.3	17.0	18.9
115°	18.9	17.9	13.2	11.4	9.4	8.5	7.6	7.6	9.4	17.0	18.9
117.5°	18.9	17.9	13.2	10.3	9.4	7.6	6.6	6.6	9.4	17.0	18.9
120°	18.9	18.9	13.2	9.4	8.5	7.6	6.6	6.6	9.4	16.1	17.9
122.5°	17.9	17.9	12.3	9.4	7.6	6.6	5.6	5.6	9.4	16.1	17.0
125°	17.0	17.0	12.3	8.5	6.6	5.6	5.6	5.6	9.4	15.1	17.0
127.5°	16.1	16.1	11.4	7.6	5.6	5.6	4.7	4.7	9.4	15.1	16.1
130°	15.1	15.1	10.3	6.6	5.6	4.7	3.8	4.7	9.4	14.1	15.1
132.5°	13.2	13.2	9.4	5.6	4.7	3.8	3.8	3.8	8.5	13.2	14.1
135°	11.4	11.4	8.5	5.6	4.7	3.8	2.9	3.8	7.6	11.4	12.3
137.5°	10.3	10.3	7.6	4.7	3.8	2.9	2.9	3.8	7.6	10.3	11.4
140°	7.6	7.6	5.6	3.8	2.9	2.9	1.8	2.9	6.6	8.5	9.4
142.5°	5.6	5.6	4.7	3.8	2.9	1.8	1.8	2.9	5.6	7.6	7.6
145°	4.7	4.7	3.8	2.9	2.9	1.8	0.9	1.8	4.7	6.6	6.6
147.5°	3.8	3.8	3.8	2.9	1.8	0.9	0.9	0.9	2.9	4.7	4.7
150°	2.9	2.9	2.9	2.9	1.8	0.0	0.0	0.0	1.8	2.9	2.9
152.5°	1.8	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.9	0.9
155°	0.9	1.8	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)