

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: P240969

Luminaire Tested: **UTLD-AF24-70-D-U-T3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240969
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-AF24-70-D-U-T3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 7041 lumens
Efficiency: N/A
Efficacy: 95.1 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): 74
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

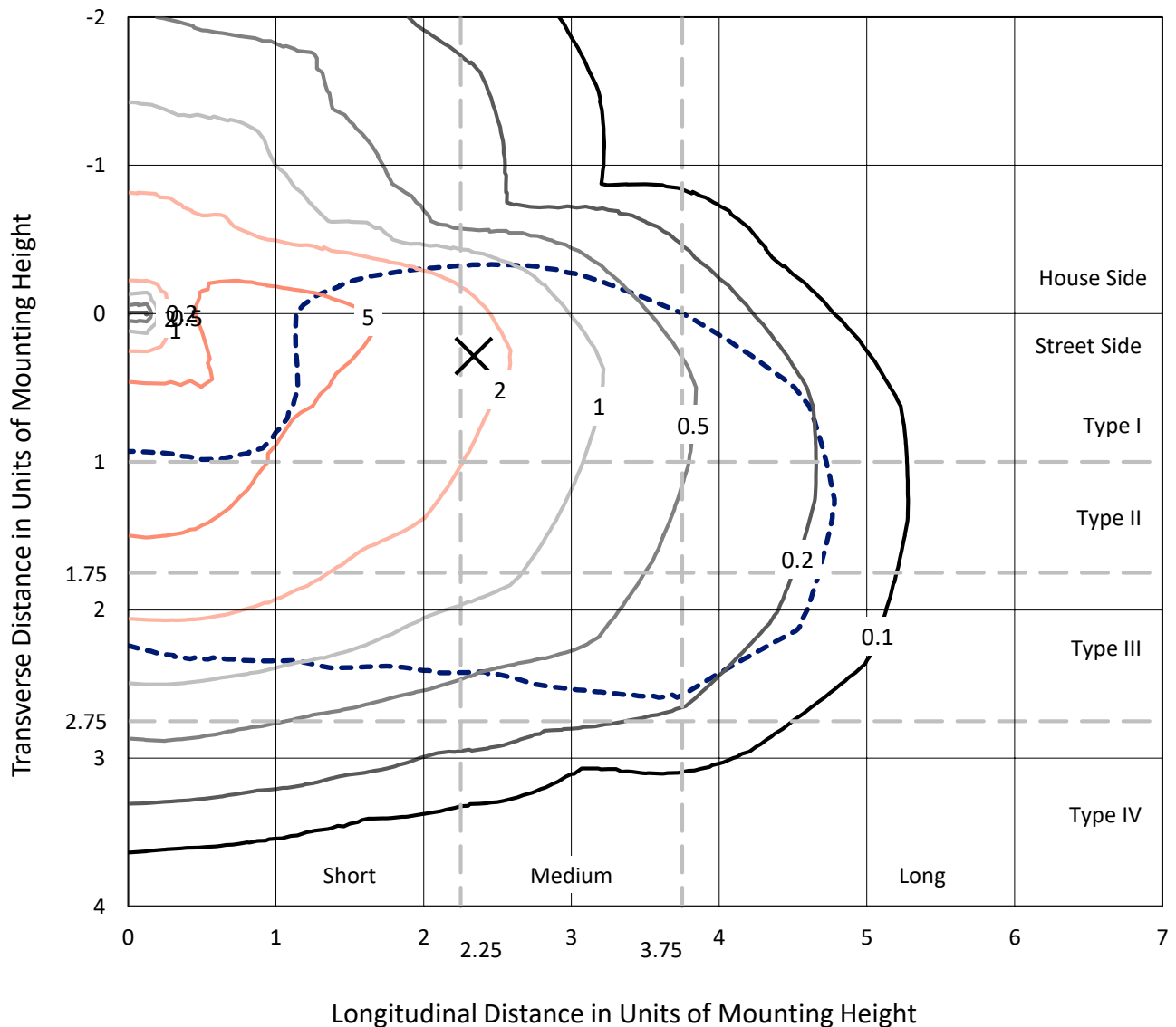


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

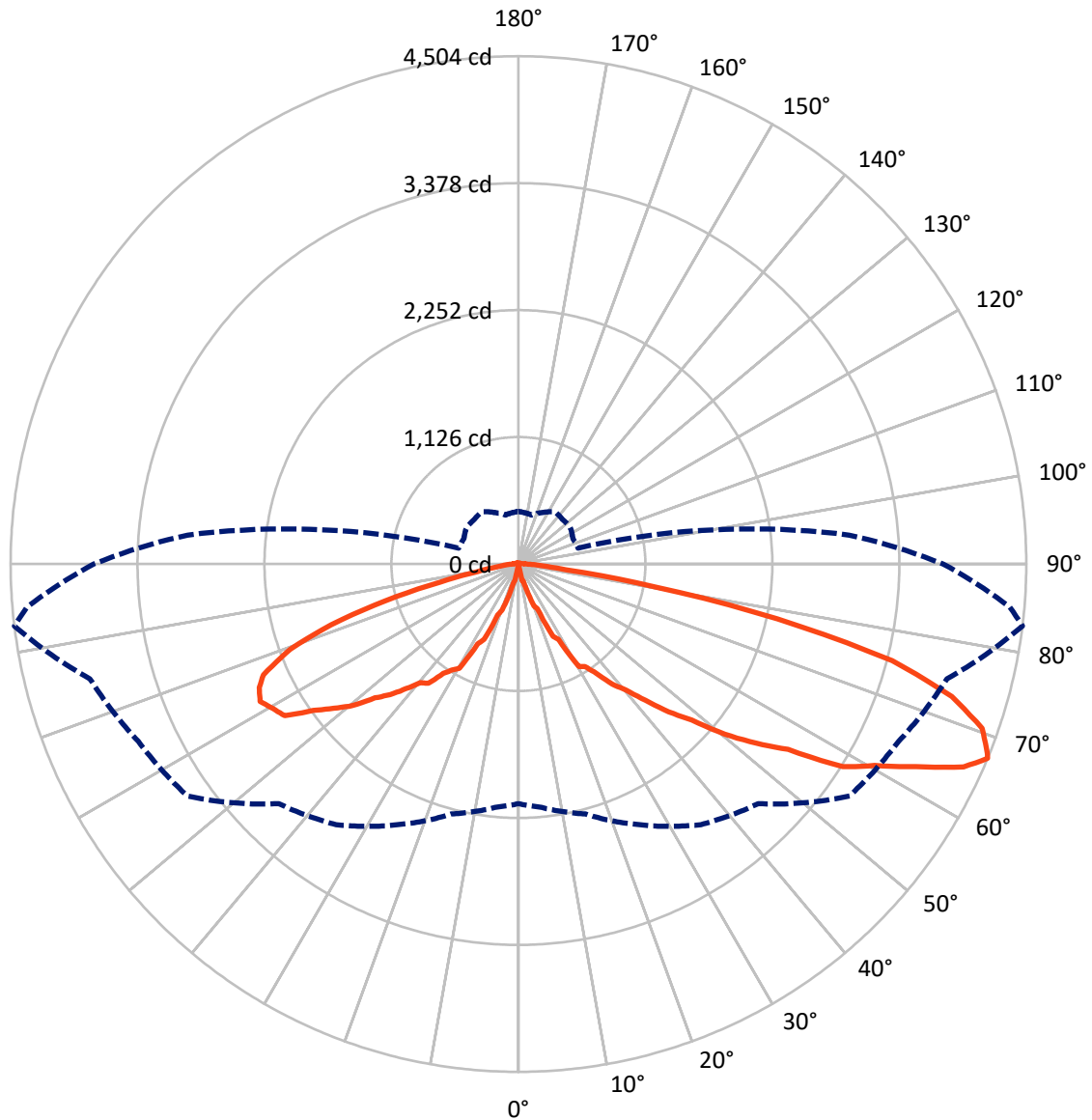


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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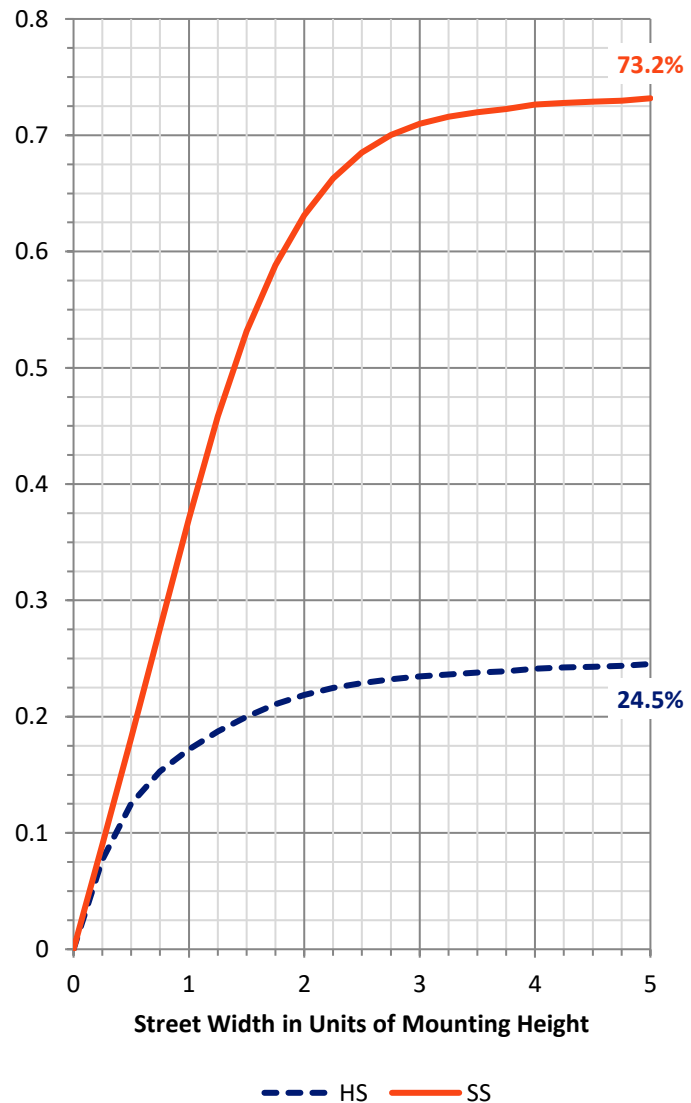
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1766.7	46.7	1813.4
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	5188.2	39.3	5227.5
	% Fixture	73.7	0.6	74.2
Total	Lumens	6954.9	86.0	7041.0
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	63.7	0.9
20°-30°	255.9	3.6
30°-40°	565.1	8.0
40°-50°	1007.1	14.3
50°-60°	1616.2	23.0
60°-70°	1966.6	27.9
70°-80°	1267.2	18.0
80°-90°	208.2	3.0
90°-100°	42.8	0.6
100°-110°	19.6	0.3
110°-120°	9.8	0.1
120°-130°	7.1	0.1
130°-140°	4.4	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°	6954.9	98.8
0°-180°	7041.0	100.0



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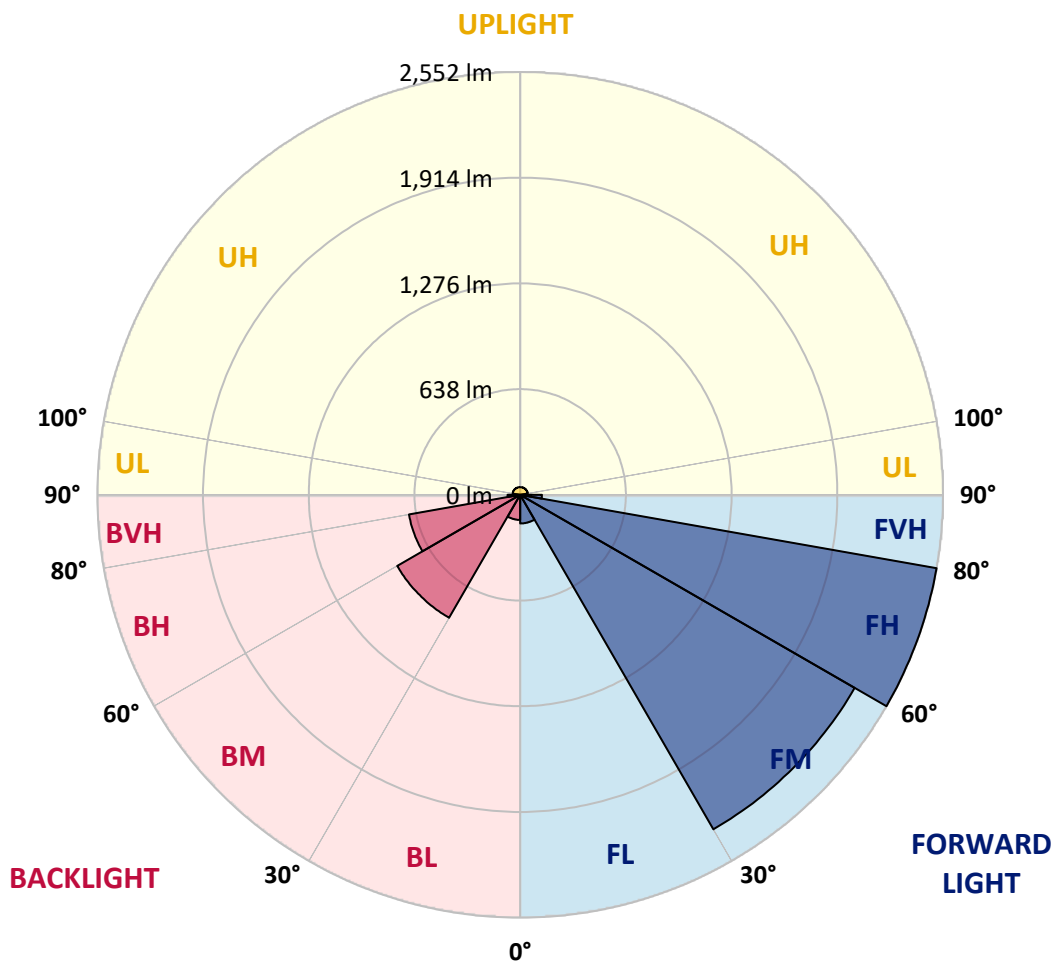
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.9	2.5			
FM	(30°-60°)	2331.3	33.1			
FH	(60°-80°)	2552.3	36.2			G2/5000
FVH	(80°-90°)	131.7	1.9			G2/225
BL	(0°-30°)	151.5	2.2	B1/500		
BM	(30°-60°)	857.2	12.2	B1/1000		
BH	(60°-80°)	681.5	9.7	B2/1000		G2/1000
BVH	(80°-90°)	76.5	1.1			G1/100
UL	(90°-100°)	42.8	0.6		U2/50	
UH	(100°-180°)	46.7	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	35.4	35.4	35.4	31.9	27.6	22.4	19.8	17.3	16.4	16.4	16.4
5°	78.5	81.9	78.5	77.6	69.9	85.4	34.5	23.3	17.3	15.5	15.5
7.5°	111.3	113.0	91.5	84.5	68.1	93.2	75.1	42.2	21.6	17.3	16.4
10°	193.2	166.5	141.5	139.7	131.1	98.3	67.3	60.4	33.7	25.9	26.7
12.5°	187.2	192.4	188.9	182.9	168.2	140.7	89.7	115.6	126.8	149.2	140.7
15°	229.4	226.0	200.1	201.8	191.5	203.6	182.0	192.4	181.2	157.8	164.8
17.5°	355.4	343.3	359.8	276.1	201.8	247.6	251.9	225.2	240.7	248.5	276.1
20°	406.3	389.0	409.8	351.1	334.7	281.2	268.3	408.1	380.4	399.4	402.8
22.5°	561.6	552.1	492.6	402.0	427.9	358.9	383.0	423.6	432.2	427.9	441.7
25°	708.2	707.4	700.5	618.5	456.3	508.9	442.5	483.0	623.7	709.9	717.7
27.5°	838.5	831.6	782.5	759.1	639.2	574.5	527.9	669.4	714.2	755.7	765.2
30°	1060.2	1105.1	998.9	863.5	773.8	661.6	709.9	706.6	860.1	1055.0	1065.4
32.5°	1244.8	1219.8	1109.4	995.5	904.1	817.7	747.9	986.8	1029.1	1082.6	1106.7
35°	1517.4	1526.9	1410.4	1110.2	1035.2	916.2	978.2	1071.4	1100.7	1189.6	1196.4
37.5°	1585.6	1660.6	1592.4	1331.1	1100.7	1001.6	1052.4	1172.3	1269.0	1350.9	1299.1
40°	1885.7	1847.8	1702.0	1491.6	1236.1	1121.5	1287.1	1357.8	1372.5	1468.2	1480.3
42.5°	2179.9	2196.3	2016.0	1748.6	1412.2	1303.4	1448.4	1429.4	1569.1	1652.0	1696.9
45°	2466.3	2474.1	2331.7	1993.5	1694.2	1607.2	1536.4	1617.5	1850.4	1870.3	1881.4
47.5°	2660.4	2661.3	2600.9	2261.0	1932.4	1735.6	1713.2	1800.3	2031.6	2066.9	2077.2
50°	2963.2	2955.4	2816.5	2439.5	2247.2	1990.2	2077.2	2044.5	2244.6	2372.3	2399.8
52.5°	3082.3	3043.4	2969.2	2699.3	2530.2	2275.7	2236.0	2295.5	2524.1	2639.7	2731.2
55°	3004.6	3071.9	3058.1	2864.0	2613.8	2526.7	2423.2	2646.6	2724.2	2901.9	3064.1
57.5°	2843.3	2958.9	3013.2	2940.8	2804.4	2606.9	2792.3	2758.7	3056.4	3392.8	3501.5
60°	2732.8	2804.4	2914.9	3002.9	2903.6	2831.2	3011.5	3187.5	3301.4	3629.1	3774.1
62.5°	2534.5	2602.6	2779.5	2907.1	2851.1	2875.2	3254.7	3347.1	3682.6	3956.1	4153.6
65°	2299.0	2362.8	2569.9	2703.6	2837.3	2932.1	3409.2	3587.8	3825.8	4338.2	4365.9
67°	2125.6	2162.6	2294.7	2551.8	2820.9	3005.4	3585.1	3719.8	3933.7	4503.8	4373.6
67.5°	2067.8	2104.0	2211.8	2478.4	2811.4	3016.7	3635.2	3758.5	3949.2	4486.7	4371.9
70°	1591.6	1720.1	1722.8	1977.2	2510.3	2933.8	3724.1	3892.2	4043.2	4362.4	4220.9
72.5°	953.2	953.2	997.2	1247.4	1779.6	2624.2	3724.1	3845.7	3975.9	4019.1	3780.9
75°	461.6	440.0	499.5	598.6	896.3	1770.1	3356.5	3524.8	3541.1	3423.8	3066.7
77.5°	380.4	330.4	314.0	307.1	480.5	662.5	2242.9	2751.8	2752.7	2349.0	2055.7
80°	238.0	240.7	247.6	213.1	275.2	342.5	894.6	1676.1	1523.5	1220.7	1028.3
82.5°	168.2	174.2	176.9	157.8	192.4	160.5	297.6	707.4	615.9	425.2	360.6
85°	118.2	114.8	128.6	107.0	115.6	94.9	163.9	304.5	346.8	210.5	199.3
87.5°	70.7	70.7	86.2	72.4	79.4	68.1	99.2	149.2	172.6	119.1	111.3
90°	42.2	38.8	40.5	41.4	44.9	38.8	53.5	71.6	75.1	60.4	55.2
92.5°	31.9	31.9	34.5	32.7	40.5	35.4	46.5	56.1	68.1	51.8	48.3
95°	20.7	23.3	25.9	26.7	31.1	26.7	38.8	45.7	50.9	39.7	38.0
97.5°	19.0	20.7	22.4	22.4	25.9	21.6	31.9	40.5	40.5	31.1	28.4
100°	18.1	19.0	19.8	19.8	21.6	17.3	25.1	35.4	35.4	25.9	24.1
102.5°	16.4	17.3	16.4	15.5	18.1	13.8	20.7	31.1	25.1	19.8	20.7
105°	16.4	16.4	14.6	12.9	14.6	11.3	18.1	22.4	17.3	16.4	17.3
107.5°	15.5	15.5	12.1	11.3	12.1	9.5	14.6	15.5	13.8	15.5	16.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	14.6	13.8	11.3	9.5	9.5	8.6	11.3	11.3	11.3	14.6	16.4
112.5°	12.9	12.1	9.5	7.8	7.8	6.9	7.8	8.6	10.3	13.8	15.5
115°	12.1	11.3	8.6	6.9	6.0	6.0	6.9	6.9	9.5	13.8	15.5
117.5°	12.1	11.3	7.8	6.9	5.2	5.2	6.0	6.9	9.5	13.8	15.5
120°	11.3	11.3	7.8	6.0	5.2	4.3	5.2	6.0	9.5	14.6	15.5
122.5°	11.3	10.3	7.8	6.0	4.3	4.3	4.3	5.2	8.6	13.8	14.6
125°	10.3	10.3	6.9	5.2	4.3	3.5	4.3	5.2	9.5	13.8	14.6
127.5°	10.3	9.5	6.9	5.2	3.5	3.5	4.3	4.3	8.6	12.9	13.8
130°	10.3	9.5	6.9	4.3	3.5	3.5	3.5	4.3	8.6	12.1	12.9
132.5°	8.6	8.6	6.0	4.3	3.5	2.6	3.5	3.5	6.9	10.3	11.3
135°	8.6	7.8	6.0	4.3	3.5	2.6	2.6	3.5	6.9	9.5	9.5
137.5°	7.8	6.9	6.0	4.3	2.6	2.6	1.7	2.6	6.0	7.8	8.6
140°	6.9	6.9	5.2	4.3	2.6	1.7	1.7	2.6	4.3	6.0	6.9
142.5°	6.9	6.9	6.0	4.3	2.6	1.7	1.7	1.7	3.5	5.2	5.2
145°	6.0	6.0	5.2	3.5	1.7	0.8	0.8	1.7	2.6	3.5	4.3
147.5°	6.0	6.0	5.2	3.5	1.7	0.8	0.8	1.7	2.6	3.5	3.5
150°	5.2	5.2	4.3	2.6	0.8	0.0	0.0	0.8	1.7	2.6	2.6
152.5°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.8	1.7	1.7	1.7
155°	1.7	1.7	1.7	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	16.4	16.4	16.4	16.4	16.4	16.4	15.5	15.5	15.5	15.5	15.5
5°	14.6	14.6	15.5	15.5	15.5	15.5	15.5	16.4	17.3	17.3	18.1
7.5°	16.4	16.4	15.5	15.5	16.4	18.1	29.4	62.1	117.3	108.7	107.8
10°	25.9	25.9	23.3	21.6	23.3	84.5	132.9	125.9	106.1	103.5	100.0
12.5°	163.9	152.7	123.4	77.6	113.0	107.0	124.2	145.8	189.8	199.3	192.4
15°	164.8	171.7	185.5	201.0	254.5	113.0	219.1	268.3	286.4	286.4	292.5
17.5°	286.4	308.8	237.2	213.9	253.6	310.6	245.0	272.6	270.1	270.9	263.1
20°	465.9	420.9	464.1	416.6	284.7	347.6	305.4	292.5	394.2	469.3	469.3
22.5°	461.6	489.1	483.0	478.7	501.2	308.8	389.9	423.6	439.1	419.2	449.5
25°	770.4	741.0	700.5	477.9	480.5	429.6	420.9	395.1	429.6	463.2	456.3
27.5°	805.7	812.6	735.8	711.7	503.8	483.0	396.8	459.8	501.2	503.8	499.5
30°	1099.9	1113.7	868.7	655.6	565.9	440.8	464.1	443.4	463.2	486.5	499.5
32.5°	1163.7	1143.0	959.2	738.5	554.6	466.7	427.0	443.4	518.4	518.4	514.1
35°	1239.6	1224.1	988.6	701.3	604.7	436.5	395.1	441.7	463.2	501.2	503.8
37.5°	1392.3	1383.6	1085.2	699.6	538.3	412.4	434.8	446.0	452.9	461.6	453.8
40°	1493.2	1426.8	1114.5	730.7	521.0	477.9	452.9	420.1	426.2	404.6	395.1
42.5°	1683.1	1571.8	1143.0	709.9	508.1	527.1	420.9	414.9	400.3	377.9	377.9
45°	1876.3	1733.9	1181.0	667.7	490.0	511.6	433.9	424.4	411.5	408.1	400.3
47.5°	2072.9	1881.4	1175.0	694.4	549.5	478.7	543.5	456.3	392.5	426.2	423.6
50°	2396.5	2121.3	1180.1	641.8	547.8	470.1	544.3	432.2	420.1	446.0	448.6
52.5°	2660.4	2284.2	1251.7	611.6	530.5	544.3	515.0	523.6	495.1	487.4	496.8
55°	2976.2	2493.0	1205.1	575.4	516.7	513.3	606.4	527.1	501.2	526.2	528.8
57.5°	3372.1	2783.8	1215.5	516.7	521.0	494.3	593.5	590.0	574.5	562.4	558.1
60°	3601.5	2876.9	1118.8	551.3	504.6	545.2	629.7	611.6	529.7	615.1	628.9
62.5°	3781.8	3021.9	881.6	545.2	560.7	520.2	578.0	597.0	558.1	622.9	630.5
65°	3825.8	3014.1	675.5	559.9	554.6	578.0	684.0	586.6	487.4	496.8	501.2
67°	3765.5	2945.9	547.8	533.2	562.4	556.4	565.9	503.8	450.3	459.8	466.7
67.5°	3730.9	2890.8	519.4	531.4	581.4	555.6	554.6	484.8	440.0	452.0	454.6
70°	3410.0	2589.7	434.8	524.5	576.2	504.6	518.4	427.0	388.2	392.5	394.2
72.5°	2920.0	2078.1	414.9	521.9	565.9	420.9	398.5	349.3	330.4	324.4	315.7
75°	2241.2	1432.0	409.8	471.0	464.9	318.3	319.2	290.7	292.5	279.5	274.4
77.5°	1350.1	802.3	348.5	398.5	348.5	243.3	263.9	257.9	264.8	251.0	242.4
80°	647.0	391.7	275.2	293.3	245.8	190.7	225.2	234.7	236.4	216.6	207.0
82.5°	276.9	202.7	186.4	183.7	175.1	147.5	182.0	191.5	193.2	181.2	145.0
85°	163.1	138.0	128.6	123.4	121.6	91.5	130.2	154.4	154.4	127.7	110.4
87.5°	101.8	101.0	90.5	90.5	94.9	64.7	89.7	106.1	100.0	75.9	60.4
90°	48.3	51.8	54.3	55.2	64.7	36.2	57.8	61.3	57.8	41.4	29.4
92.5°	38.8	44.0	47.5	49.2	58.6	31.1	51.8	55.2	52.6	41.4	29.4
95°	31.9	39.7	47.5	46.5	49.2	24.1	45.7	50.0	48.3	36.2	25.1
97.5°	25.9	31.9	38.8	38.8	44.9	20.7	42.2	47.5	46.5	32.7	24.1
100°	23.3	28.4	34.5	33.7	39.7	16.4	38.0	41.4	40.5	26.7	21.6
102.5°	20.7	23.3	26.7	26.7	29.4	13.8	28.4	31.9	30.2	22.4	21.6
105°	19.0	19.8	19.0	18.1	19.0	12.1	18.1	20.7	18.1	17.3	17.3
107.5°	18.1	18.1	15.5	14.6	13.8	10.3	12.9	13.8	12.1	15.5	17.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.1	17.3	13.8	12.9	11.3	9.5	10.3	10.3	10.3	15.5	16.4
112.5°	17.3	17.3	12.9	11.3	10.3	8.6	8.6	7.8	9.5	15.5	17.3
115°	17.3	16.4	12.1	10.3	8.6	7.8	6.9	6.9	8.6	15.5	17.3
117.5°	17.3	16.4	12.1	9.5	8.6	6.9	6.0	6.0	8.6	15.5	17.3
120°	17.3	17.3	12.1	8.6	7.8	6.9	6.0	6.0	8.6	14.6	16.4
122.5°	16.4	16.4	11.3	8.6	6.9	6.0	5.2	5.2	8.6	14.6	15.5
125°	15.5	15.5	11.3	7.8	6.0	5.2	5.2	5.2	8.6	13.8	15.5
127.5°	14.6	14.6	10.3	6.9	5.2	5.2	4.3	4.3	8.6	13.8	14.6
130°	13.8	13.8	9.5	6.0	5.2	4.3	3.5	4.3	8.6	12.9	13.8
132.5°	12.1	12.1	8.6	5.2	4.3	3.5	3.5	3.5	7.8	12.1	12.9
135°	10.3	10.3	7.8	5.2	4.3	3.5	2.6	3.5	6.9	10.3	11.3
137.5°	9.5	9.5	6.9	4.3	3.5	2.6	2.6	3.5	6.9	9.5	10.3
140°	6.9	6.9	5.2	3.5	2.6	2.6	1.7	2.6	6.0	7.8	8.6
142.5°	5.2	5.2	4.3	3.5	2.6	1.7	1.7	2.6	5.2	6.9	6.9
145°	4.3	4.3	3.5	2.6	2.6	1.7	0.8	1.7	4.3	6.0	6.0
147.5°	3.5	3.5	3.5	2.6	1.7	0.8	0.8	0.8	2.6	4.3	4.3
150°	2.6	2.6	2.6	2.6	1.7	0.0	0.0	0.0	1.7	2.6	2.6
152.5°	1.7	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.8	0.8
155°	0.8	1.7	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)