

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: P241015

Luminaire Tested: **UTLD-AF24-80-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
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-T4W-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7254.9 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - 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

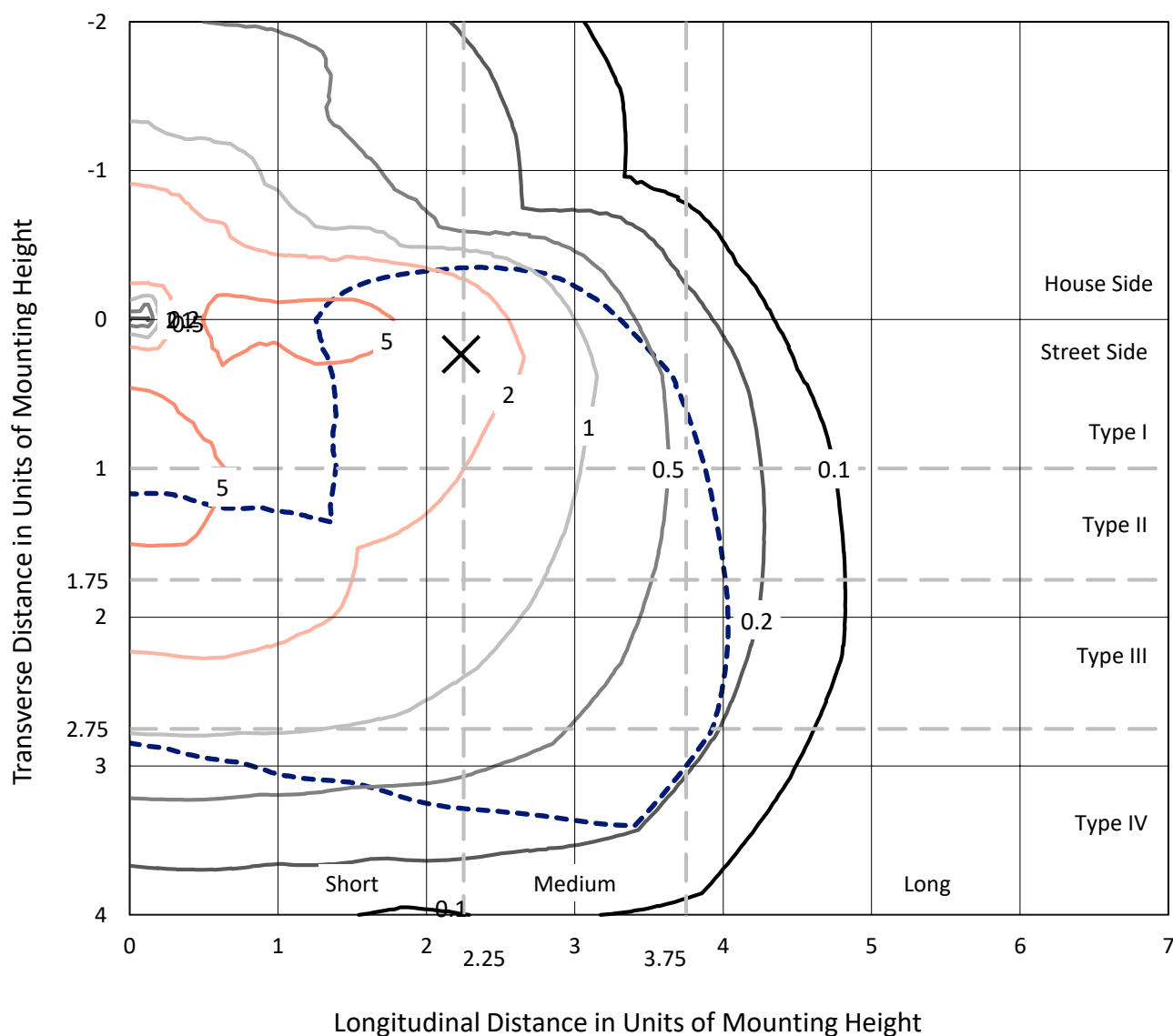


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

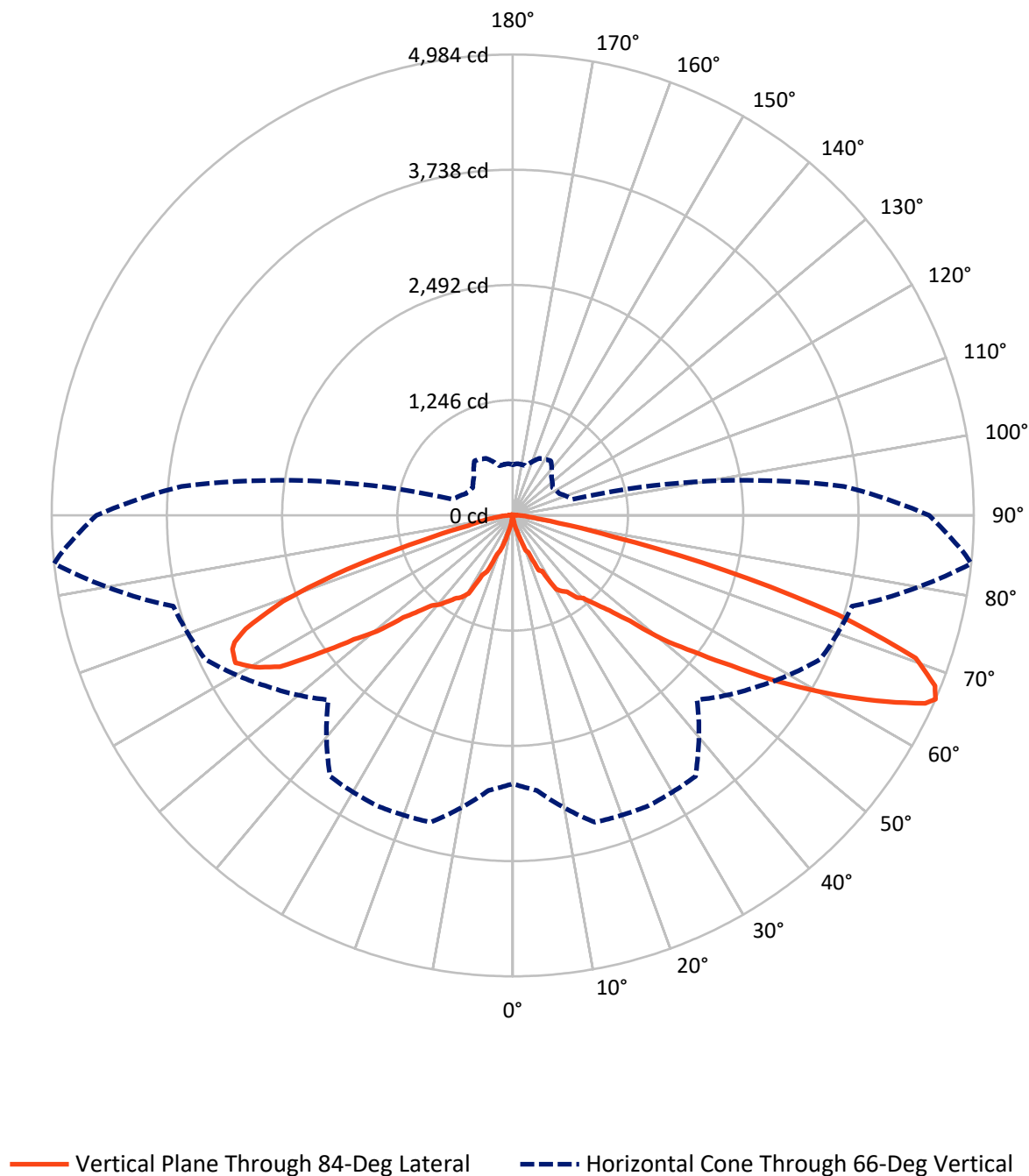


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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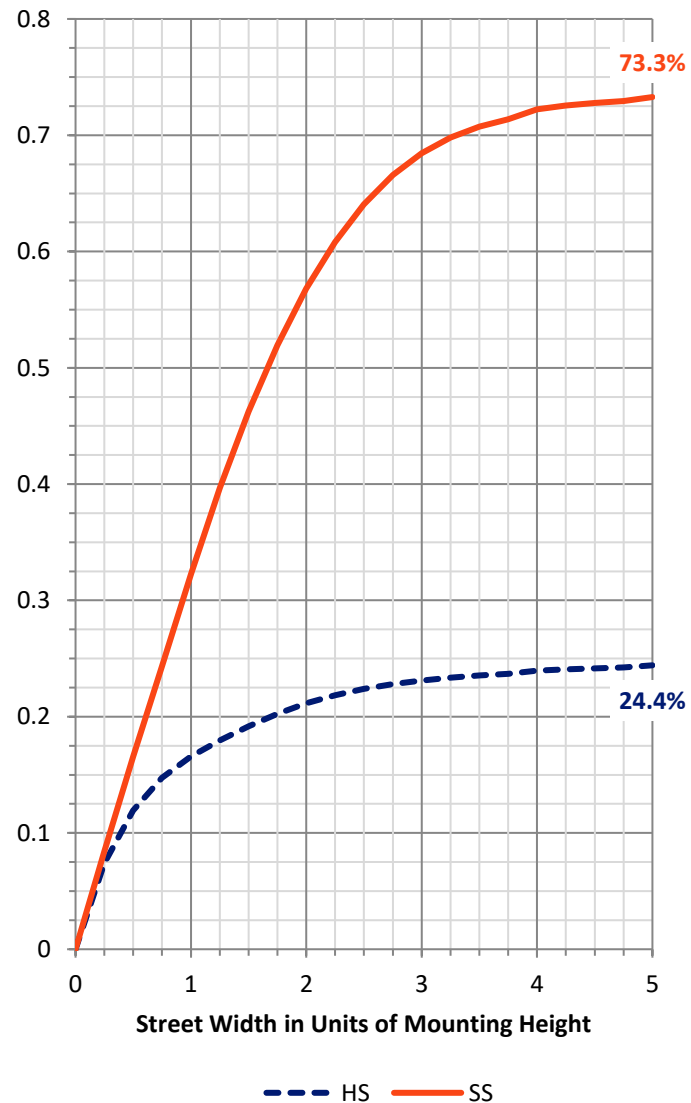
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1815.4	44.2	1859.6
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	5353.7	41.5	5395.3
	% Fixture	73.8	0.6	74.4
Total	Lumens	7169.1	85.7	7254.9
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	67.3	0.9
20°-30°	248.8	3.4
30°-40°	511.7	7.1
40°-50°	848.9	11.7
50°-60°	1480.3	20.4
60°-70°	2180.6	30.1
70°-80°	1591.4	21.9
80°-90°	234.8	3.2
90°-100°	43.8	0.6
100°-110°	20.0	0.3
110°-120°	9.5	0.1
120°-130°	6.5	0.1
130°-140°	3.9	0.1
140°-150°	1.8	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7169.1	98.8
0°-180°	7254.9	100.0

Coefficient of Utilization



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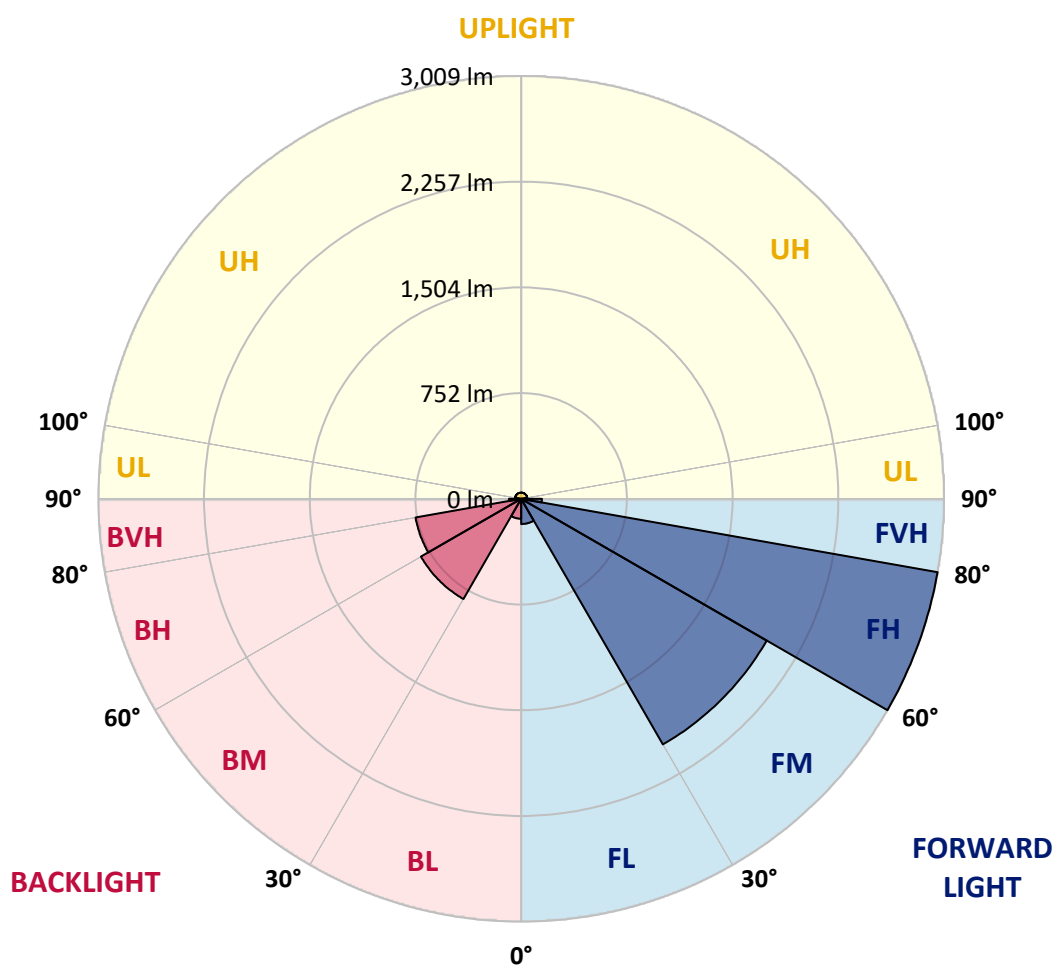
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.5	2.5			
FM	(30°-60°)	2017.7	27.8			
FH	(60°-80°)	3008.9	41.5			G2/5000
FVH	(80°-90°)	147.6	2.0			G2/225
BL	(0°-30°)	142.0	2.0	B1/500		
BM	(30°-60°)	823.2	11.3	B1/1000		
BH	(60°-80°)	763.1	10.5	B2/1000		G2/1000
BVH	(80°-90°)	87.1	1.2			G1/100
UL	(90°-100°)	43.8	0.6		U2/50	
UH	(100°-180°)	44.2	0.6		U2/50	

BUG Rating: B2-U2-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	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°	42.8	38.4	38.4	36.6	33.0	29.5	23.2	19.6	16.9	16.9	16.1
5°	82.1	86.6	100.0	91.9	75.8	99.1	44.6	29.5	18.8	16.1	16.1
7.5°	130.3	137.4	105.3	93.8	93.8	100.0	81.2	49.0	25.0	18.8	17.8
10°	273.0	258.0	179.4	182.0	154.4	107.9	74.1	65.1	38.4	30.4	27.7
12.5°	265.1	261.4	266.8	232.9	234.7	170.5	94.6	151.8	137.4	131.2	144.5
15°	341.8	338.2	271.3	276.7	250.7	260.6	219.5	218.6	211.5	177.5	170.5
17.5°	474.7	471.2	531.0	353.5	251.7	325.7	282.9	243.6	252.6	266.8	277.5
20°	473.8	468.5	493.6	423.9	429.3	336.4	301.7	443.6	405.2	407.0	383.7
22.5°	699.7	667.6	586.2	442.6	483.7	393.6	447.1	438.2	408.7	432.8	425.7
25°	679.1	691.6	664.0	655.0	492.6	564.0	491.7	506.0	624.8	656.8	657.7
27.5°	788.0	763.9	742.5	672.9	662.2	548.8	506.0	673.8	654.1	683.6	682.8
30°	939.7	931.8	926.4	747.9	716.6	605.1	681.8	688.2	794.4	928.1	955.8
32.5°	1086.1	1047.7	961.2	865.7	719.4	714.9	677.4	855.0	911.2	974.6	984.3
35°	1318.1	1317.2	1170.9	925.4	805.0	759.5	877.3	921.0	920.1	1015.6	1073.6
37.5°	1516.3	1526.2	1372.7	1117.4	832.7	767.5	915.7	993.2	996.9	1126.3	1103.9
40°	1818.0	1792.1	1654.6	1334.2	951.3	818.4	1004.0	1015.6	1088.8	1175.3	1207.6
42.5°	2032.1	2022.3	1977.7	1587.6	1088.8	912.1	1108.4	1058.4	1153.0	1310.1	1344.0
45°	2165.9	2117.8	2161.4	1773.3	1309.3	1113.0	1131.6	1198.6	1299.4	1465.3	1560.9
47.5°	2300.8	2337.3	2234.7	1913.4	1507.3	1205.6	1245.0	1456.4	1553.7	1702.8	1763.5
50°	2534.6	2495.3	2459.5	2124.0	1812.6	1353.8	1557.3	1528.7	1801.9	2106.2	2116.9
52.5°	2677.3	2677.3	2619.4	2307.9	2023.2	1572.5	1661.8	1763.5	2170.4	2446.2	2546.2
55°	2880.0	2921.9	2911.2	2524.8	2271.3	1869.7	1934.9	2149.0	2507.8	2862.0	3109.3
57.5°	3023.6	3081.6	3207.5	2756.7	2512.2	1991.0	2333.8	2572.1	2961.2	3392.2	3691.3
60°	3237.0	3237.8	3367.2	2962.0	2816.6	2222.3	2488.2	2964.8	3210.1	3901.7	4059.7
62.5°	3258.3	3294.9	3566.2	3281.5	3120.0	2463.1	2993.2	3167.3	3490.4	4414.1	4552.4
65°	2999.5	3097.7	3551.9	3431.5	3397.5	2685.4	3141.4	3568.0	3718.0	4899.5	4860.3
66°	2900.5	2983.5	3434.1	3464.5	3443.1	2818.4	3227.9	3672.4	3797.5	4983.5	4914.7
67.5°	2865.7	2926.3	3293.2	3500.2	3597.5	3059.3	3439.5	3723.3	3942.8	4922.7	4895.1
70°	2623.8	2699.7	3044.2	3735.8	3926.8	3501.1	3711.6	3846.5	4045.5	4622.0	4502.3
72.5°	2000.9	2078.5	2332.9	3082.5	3954.4	4154.4	4133.9	4001.7	3711.6	3672.4	3480.6
75°	992.4	1075.4	1254.8	1796.5	3077.2	4081.2	4109.7	3608.2	2999.5	2368.5	2221.3
77.5°	513.2	578.3	484.6	688.2	1582.3	2895.2	2908.5	2379.2	1738.6	1106.7	1033.5
80°	349.8	364.2	330.2	339.1	651.5	1479.7	1379.7	1266.5	699.7	507.8	530.1
82.5°	257.0	237.4	227.6	247.3	351.6	462.2	496.2	547.9	373.8	258.0	272.2
85°	121.4	133.9	131.2	150.8	214.1	158.0	242.8	329.3	249.0	166.0	163.4
87.5°	75.8	75.0	80.3	92.8	129.4	104.5	133.0	163.4	149.9	103.6	101.7
90°	49.9	44.6	41.9	49.9	72.3	51.8	71.3	92.8	84.7	56.3	52.7
92.5°	33.9	33.9	36.6	41.9	62.5	55.2	51.0	52.7	52.7	43.7	41.9
95°	25.0	26.8	30.4	31.2	37.4	32.1	41.1	45.6	46.4	35.7	34.9
97.5°	21.5	23.2	25.0	25.9	31.2	25.9	33.9	40.2	39.3	28.5	29.5
100°	19.6	21.5	21.5	22.3	25.0	19.6	27.7	37.4	35.7	25.0	24.1
102.5°	18.8	18.8	17.8	17.8	19.6	15.2	23.2	33.0	26.8	20.5	18.8
105°	17.8	17.8	15.2	14.3	15.2	12.4	18.8	25.0	18.8	16.9	16.9
107.5°	16.9	16.1	13.4	11.6	12.4	9.9	15.2	16.1	13.4	15.2	16.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	15.2	15.2	11.6	9.9	9.9	8.0	10.7	11.6	11.6	15.2	16.1
112.5°	14.3	13.4	9.9	8.0	8.0	7.1	8.0	9.0	9.9	14.3	15.2
115°	13.4	12.4	9.0	7.1	6.2	5.4	6.2	7.1	9.0	14.3	14.3
117.5°	12.4	11.6	8.0	6.2	5.4	4.5	5.4	6.2	9.0	14.3	14.3
120°	12.4	11.6	8.0	5.4	4.5	4.5	4.5	5.4	9.9	14.3	15.2
122.5°	11.6	11.6	8.0	5.4	4.5	3.6	3.6	5.4	9.0	13.4	13.4
125°	11.6	11.6	7.1	4.5	3.6	3.6	3.6	4.5	9.0	12.4	13.4
127.5°	10.7	10.7	7.1	4.5	3.6	2.7	2.7	4.5	8.0	12.4	12.4
130°	10.7	10.7	7.1	3.6	2.7	2.7	2.7	3.6	8.0	11.6	11.6
132.5°	9.0	9.0	6.2	3.6	2.7	1.7	2.7	3.6	7.1	9.9	10.7
135°	9.0	9.0	6.2	3.6	2.7	1.7	1.7	3.6	6.2	9.0	9.0
137.5°	8.0	8.0	5.4	3.6	2.7	1.7	1.7	2.7	5.4	8.0	8.0
140°	7.1	7.1	6.2	3.6	2.7	1.7	1.7	1.7	4.5	6.2	6.2
142.5°	7.1	7.1	5.4	3.6	1.7	0.9	0.9	1.7	3.6	4.5	4.5
145°	6.2	6.2	5.4	3.6	1.7	0.9	0.9	1.7	2.7	3.6	3.6
147.5°	6.2	6.2	5.4	2.7	0.9	0.9	0.9	1.7	2.7	3.6	3.6
150°	5.4	5.4	3.6	1.7	0.0	0.0	0.9	0.9	1.7	2.7	2.7
152.5°	3.6	3.6	2.7	0.9	0.0	0.0	0.0	0.9	1.7	1.7	1.7
155°	1.7	1.7	0.9	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	0.9
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°	16.1	16.1	16.1	16.1	16.1	16.1	15.2	15.2	15.2	15.2	15.2
5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	16.1	16.9	16.9	16.9
7.5°	16.9	16.9	16.1	15.2	16.1	17.8	26.8	61.6	90.1	110.7	109.8
10°	27.7	27.7	25.9	22.3	27.7	60.6	119.6	120.5	100.0	91.9	95.5
12.5°	146.4	130.3	110.7	91.0	89.3	107.9	101.7	141.9	158.9	170.5	168.7
15°	167.8	177.5	162.5	182.0	186.5	110.7	173.1	232.0	249.8	257.0	265.1
17.5°	276.7	306.2	218.6	207.0	207.9	221.4	233.9	245.4	250.7	248.1	249.0
20°	416.9	397.1	426.5	364.2	278.4	296.3	271.3	267.6	353.5	429.3	419.4
22.5°	425.7	459.7	420.3	384.6	425.7	301.7	373.8	397.1	408.7	418.6	431.0
25°	689.0	672.9	589.0	441.7	420.3	402.5	406.1	414.9	437.2	471.2	491.7
27.5°	731.8	728.2	651.5	595.3	448.0	503.3	416.9	501.6	541.7	577.4	584.5
30°	984.3	994.1	749.6	572.1	519.4	431.0	483.7	516.7	547.9	597.9	598.8
32.5°	1045.9	1066.5	829.1	632.7	544.4	446.3	486.4	511.4	630.1	676.5	678.3
35°	1062.0	1114.7	855.0	610.4	525.6	444.4	448.9	534.6	593.5	688.2	721.9
37.5°	1230.7	1192.3	908.5	618.5	491.7	427.5	484.6	513.2	606.0	666.7	678.3
40°	1302.1	1280.6	943.4	634.6	485.4	475.8	448.9	478.3	522.0	565.9	565.9
42.5°	1435.0	1351.2	962.9	622.9	472.1	510.5	409.6	442.6	483.7	457.8	468.5
45°	1611.8	1499.4	1029.9	561.4	447.1	433.8	393.6	444.4	418.6	418.6	413.2
47.5°	1840.3	1686.8	1007.6	540.0	503.3	410.5	519.4	417.7	385.5	399.8	400.8
50°	2201.7	2019.6	1076.3	525.6	477.5	402.5	444.4	403.3	403.3	413.2	409.6
52.5°	2655.0	2296.3	1105.7	524.8	451.6	468.5	440.9	482.8	417.7	452.5	448.0
55°	3145.9	2713.0	1136.1	517.7	447.1	423.1	539.0	462.2	433.8	497.1	498.9
57.5°	3768.0	3195.9	1261.1	503.3	448.9	423.9	508.7	517.7	528.4	570.3	576.6
60°	4155.2	3463.6	1150.4	530.1	444.4	483.7	591.6	578.3	545.3	700.6	723.8
62.5°	4450.6	3666.2	947.9	552.5	525.6	487.3	611.3	674.6	644.3	706.8	724.7
65°	4504.2	3648.2	724.7	552.5	518.6	567.6	733.5	672.9	573.8	580.0	572.9
66°	4500.6	3593.9	667.6	556.9	525.6	591.6	720.2	680.9	555.1	561.4	547.9
67.5°	4353.3	3421.7	580.0	550.6	575.6	607.8	707.7	635.5	533.7	535.5	522.0
70°	3786.7	2886.2	493.6	565.9	597.1	609.5	773.8	591.6	489.9	477.5	474.7
72.5°	2785.3	2047.3	462.2	563.1	606.0	590.8	652.4	486.4	423.1	398.0	395.3
75°	1566.2	1045.9	460.5	540.0	536.4	507.0	493.6	374.9	349.8	320.3	315.0
77.5°	721.9	504.2	389.9	434.7	405.2	400.8	367.6	312.4	298.1	278.4	270.4
80°	417.7	356.0	277.5	288.2	290.9	282.9	297.1	281.2	265.9	251.7	238.3
82.5°	243.6	225.8	202.5	190.1	190.1	203.4	244.5	233.9	222.3	209.8	180.3
85°	152.6	146.4	138.3	133.0	133.0	122.3	175.8	195.5	184.7	158.0	141.1
87.5°	100.0	104.5	92.8	93.8	91.0	81.2	118.6	131.2	112.4	90.1	75.0
90°	45.6	49.9	54.4	53.5	58.0	44.6	65.1	66.9	59.8	41.1	29.5
92.5°	34.9	41.1	45.6	45.6	49.9	30.4	47.3	52.7	49.0	38.4	27.7
95°	29.5	36.6	43.7	42.8	42.8	24.1	43.7	49.0	46.4	33.0	24.1
97.5°	24.1	29.5	35.7	35.7	39.3	20.5	40.2	47.3	44.6	33.0	23.2
100°	22.3	26.8	31.2	32.1	35.7	16.1	36.6	44.6	40.2	27.7	22.3
102.5°	20.5	22.3	25.9	25.9	26.8	14.3	29.5	36.6	32.1	21.5	21.5
105°	18.8	18.8	18.8	16.9	16.9	11.6	17.8	25.0	19.6	16.9	18.8
107.5°	17.8	16.9	14.3	13.4	12.4	9.9	12.4	15.2	11.6	15.2	16.9



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)