

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: P241123

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-T2U-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7248.3 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U3 - 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



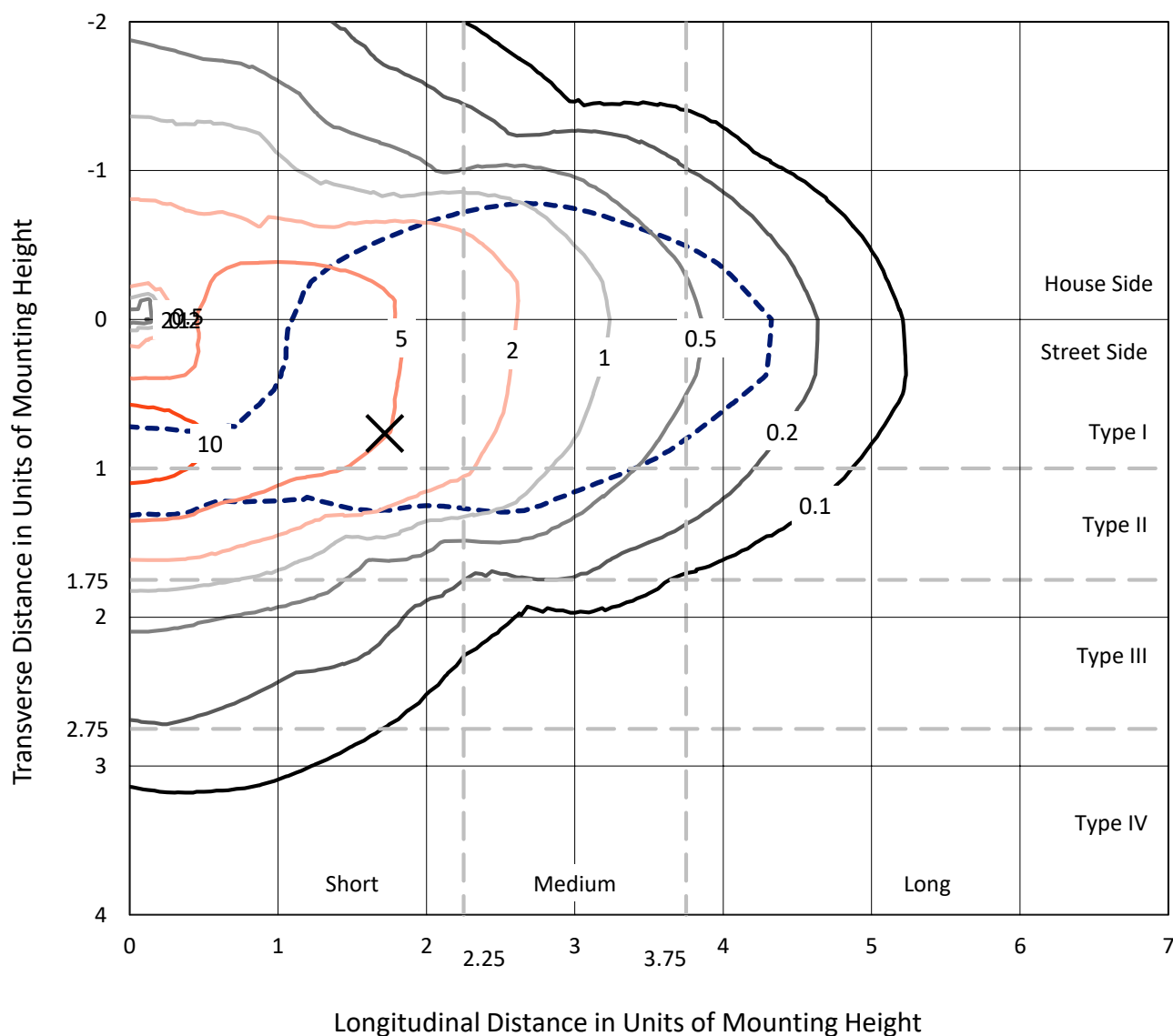
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

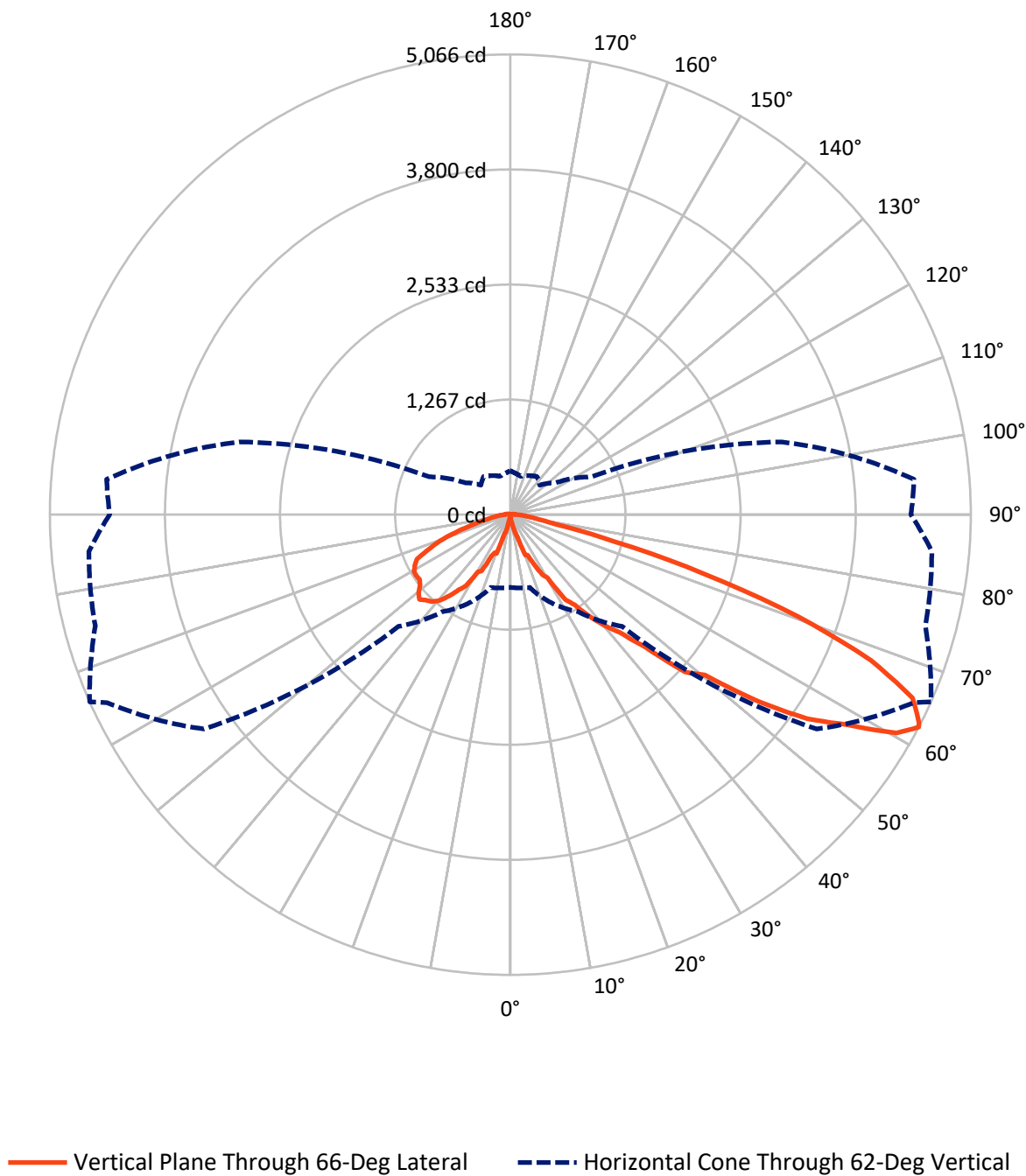


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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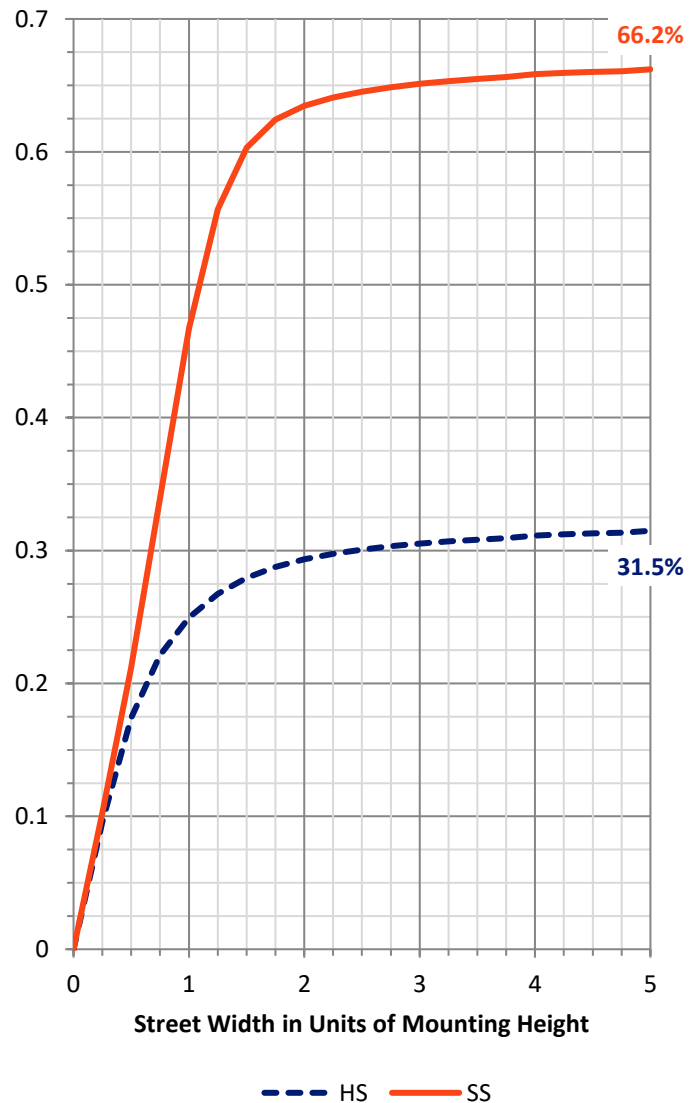
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2325.0	55.4	2380.4
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	4827.0	40.8	4867.8
	% Fixture	66.6	0.6	67.2
Total	Lumens	7152.1	96.2	7248.3
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	73.6	1.0
20°-30°	291.4	4.0
30°-40°	726.0	10.0
40°-50°	1384.5	19.1
50°-60°	1888.2	26.0
60°-70°	1734.5	23.9
70°-80°	884.8	12.2
80°-90°	162.8	2.2
90°-100°	43.0	0.6
100°-110°	20.7	0.3
110°-120°	12.5	0.2
120°-130°	9.6	0.1
130°-140°	6.4	0.1
140°-150°	3.1	0.0
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7152.1	98.7
0°-180°	7248.3	100.0

Coefficient of Utilization



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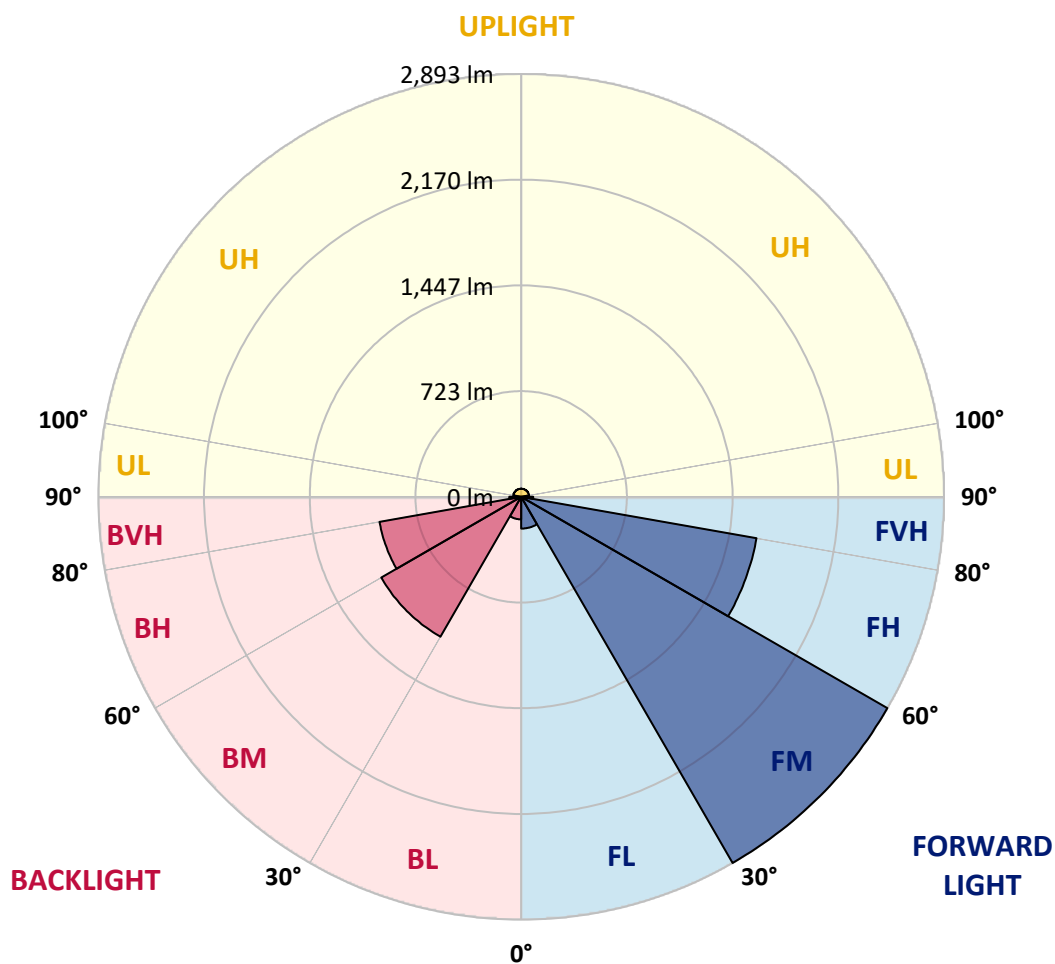
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.2	3.0			
FM	(30°-60°)	2893.2	39.9			
FH	(60°-80°)	1635.0	22.6			G1/1800
FVH	(80°-90°)	81.7	1.1			G1/100
BL	(0°-30°)	154.1	2.1	B1/500		
BM	(30°-60°)	1105.5	15.3	B2/2500		
BH	(60°-80°)	984.3	13.6	B2/1000		G2/1000
BVH	(80°-90°)	81.1	1.1			G1/100
UL	(90°-100°)	43.0	0.6		U2/50	
UH	(100°-180°)	55.4	0.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
2.5°	90.1	85.7	64.3	56.3	47.3	38.4	29.5	25.0	24.1	22.3	20.5
5°	90.1	90.1	92.8	98.2	108.8	99.1	104.5	37.4	35.7	24.1	19.6
7.5°	172.2	167.8	210.7	149.0	93.8	87.4	133.0	81.2	81.2	37.4	22.3
10°	232.9	232.0	284.6	182.0	167.8	203.4	90.1	92.8	92.8	64.3	31.2
12.5°	228.5	226.7	230.2	250.7	210.7	178.5	181.2	118.6	148.1	233.9	240.1
15°	321.2	338.2	320.3	245.4	224.8	224.0	289.1	219.5	223.1	257.0	188.3
17.5°	428.3	430.2	468.5	398.0	313.2	331.0	306.2	307.0	271.3	284.6	318.6
20°	466.7	458.7	480.0	445.3	445.3	396.2	312.4	442.6	475.6	447.1	441.7
22.5°	801.4	797.8	697.8	488.2	505.1	463.2	473.0	515.8	484.6	455.2	447.1
25°	913.9	902.3	867.4	832.5	619.3	649.6	572.9	560.4	595.3	718.4	777.3
27.5°	1215.4	1228.8	1049.4	937.0	835.3	698.7	655.0	804.9	746.9	786.2	777.3
30°	1529.5	1522.4	1459.0	1252.8	1049.4	867.4	869.1	845.1	805.8	926.3	1052.1
32.5°	1982.9	2006.1	1716.0	1500.1	1311.8	1055.7	956.7	1123.5	1116.4	1081.5	1128.8
35°	2472.0	2468.3	2231.0	1874.9	1419.0	1193.9	1143.2	1242.2	1218.1	1164.6	1252.0
37.5°	2782.5	2747.7	2586.1	2280.0	1734.8	1361.0	1378.8	1451.1	1426.9	1356.5	1517.9
40°	3232.2	3193.8	3001.2	2585.3	2163.2	1649.2	1750.0	1691.2	1612.5	1600.1	1620.7
42.5°	3397.3	3399.2	3210.8	2908.4	2535.3	2061.4	2114.0	1855.3	1775.9	1908.9	1864.2
45°	3449.1	3442.0	3310.8	3084.2	2777.2	2554.1	2386.2	2154.3	2074.0	2195.3	2243.5
47.5°	3335.8	3307.2	3328.7	3075.2	3032.4	2769.0	2734.3	2570.1	2588.0	2519.2	2632.6
50°	3031.5	2989.6	3045.7	2979.7	3162.6	3002.0	3407.1	2785.1	2775.4	2899.4	3040.3
52.5°	2559.4	2528.2	2710.1	2655.8	3134.1	3256.4	3541.0	3404.5	3413.4	3425.1	3348.2
55°	2097.1	2113.2	2252.4	2220.2	2720.9	3311.6	3988.1	3912.2	3964.0	3676.7	3677.5
57.5°	1497.4	1533.1	1783.8	1802.7	2267.5	2912.8	4346.9	4225.5	4358.5	4089.9	4149.6
60°	1031.6	1053.0	1188.6	1377.9	1701.8	2418.4	4155.9	4761.0	4881.3	4510.2	4507.5
62°	800.5	809.4	830.0	1071.8	1306.5	1738.5	4113.9	4895.7	5066.2	4727.8	4654.8
62.5°	742.5	752.2	765.7	972.7	1204.7	1580.4	3957.0	4925.2	5046.4	4755.6	4679.7
65°	594.4	598.8	568.4	647.1	851.3	944.1	2843.2	4786.8	4864.4	4721.6	4607.5
67.5°	550.5	534.5	492.6	471.2	637.2	608.6	1547.4	4080.1	4280.8	4519.1	4400.4
70°	456.0	491.6	457.8	421.2	508.7	467.6	656.7	3301.9	3358.1	4137.1	4121.0
72.5°	349.0	374.8	401.5	397.1	391.8	376.6	436.4	2063.3	2228.4	3395.6	3815.9
75°	282.9	293.6	349.8	338.2	348.0	298.1	343.6	980.7	1186.9	2403.2	3318.9
77.5°	227.6	234.7	272.2	262.3	288.2	232.9	273.9	444.4	503.3	1381.5	2272.9
80°	150.8	154.4	198.1	196.3	210.7	206.2	207.0	311.5	315.0	646.0	1189.7
82.5°	112.4	110.7	136.6	137.4	136.6	149.0	141.9	213.3	222.3	316.9	395.3
85°	73.2	70.5	81.2	86.6	83.0	82.1	107.1	149.9	156.1	225.7	235.6
87.5°	40.2	42.8	53.5	53.5	56.3	55.2	87.4	100.0	104.5	150.8	126.7
90°	26.8	26.8	29.5	28.5	30.4	29.5	45.6	58.9	59.8	75.8	67.8
92.5°	24.1	25.9	29.5	29.5	32.1	27.7	41.1	49.9	51.0	61.6	51.8
95°	21.5	22.3	25.0	25.9	27.7	19.6	31.2	41.1	41.9	51.0	41.9
97.5°	17.8	19.6	21.5	22.3	25.0	17.8	25.9	33.0	33.9	39.3	32.1
100°	17.8	18.8	18.8	18.8	21.5	15.2	22.3	28.5	29.5	32.1	26.8
102.5°	16.9	17.8	16.9	16.1	17.8	13.4	19.6	24.1	24.1	23.2	22.3
105°	16.9	16.9	14.3	12.4	15.2	12.4	16.9	17.8	17.8	17.8	20.5
107.5°	16.1	16.1	13.4	11.6	12.4	10.7	14.3	15.2	15.2	16.1	19.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	15.2	14.3	11.6	9.9	9.9	9.9	11.6	12.4	12.4	14.3	20.5
112.5°	13.4	13.4	9.9	9.0	9.0	9.0	10.7	11.6	11.6	13.4	19.6
115°	12.4	12.4	9.9	8.0	8.0	8.0	9.9	10.7	10.7	12.4	19.6
117.5°	13.4	12.4	9.0	8.0	7.1	7.1	8.0	9.9	9.9	12.4	19.6
120°	11.6	11.6	9.0	7.1	6.2	7.1	8.0	9.0	9.9	13.4	19.6
122.5°	12.4	11.6	9.0	6.2	6.2	6.2	7.1	9.0	9.0	12.4	17.8
125°	11.6	10.7	8.0	6.2	5.4	6.2	7.1	8.0	9.0	12.4	17.8
127.5°	11.6	10.7	8.0	6.2	5.4	5.4	7.1	8.0	8.0	11.6	16.9
130°	10.7	10.7	7.1	5.4	5.4	5.4	6.2	7.1	7.1	10.7	15.2
132.5°	9.9	9.0	7.1	5.4	4.5	5.4	6.2	6.2	6.2	9.9	14.3
135°	9.0	9.0	7.1	5.4	4.5	4.5	5.4	6.2	6.2	9.0	12.4
137.5°	8.0	8.0	7.1	5.4	4.5	4.5	4.5	5.4	5.4	8.0	10.7
140°	8.0	8.0	7.1	5.4	4.5	4.5	4.5	4.5	4.5	6.2	9.0
142.5°	8.0	8.0	7.1	5.4	4.5	3.6	3.6	3.6	3.6	5.4	7.1
145°	7.1	7.1	6.2	5.4	3.6	2.7	2.7	3.6	3.6	4.5	5.4
147.5°	7.1	7.1	6.2	4.5	2.7	1.7	1.7	2.7	2.7	3.6	4.5
150°	5.4	5.4	5.4	3.6	1.7	0.0	1.7	1.7	1.7	3.6	3.6
152.5°	3.6	3.6	2.7	1.7	0.9	0.9	0.9	1.7	1.7	1.7	2.7
155°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.9	0.9	1.7	1.7
157.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
162.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9
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°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
2.5°	20.5	19.6	19.6	19.6	20.5	20.5	20.5	19.6	18.8	18.8	18.8
5°	18.8	17.8	17.8	17.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
7.5°	20.5	18.8	18.8	17.8	17.8	18.8	20.5	30.4	52.7	74.1	86.6
10°	28.5	28.5	25.0	23.2	23.2	33.9	125.8	136.6	136.6	129.4	124.9
12.5°	258.8	204.4	180.3	63.4	51.8	105.3	120.5	113.3	157.2	182.9	193.6
15°	187.4	205.3	221.4	199.0	268.6	112.4	182.0	221.4	298.1	301.7	304.3
17.5°	315.0	340.1	245.4	214.1	250.7	332.9	272.2	282.0	282.0	282.0	282.9
20°	443.5	451.6	471.2	450.7	251.7	350.7	349.0	283.7	319.5	398.0	420.3
22.5°	471.2	487.3	464.1	449.8	531.9	327.6	360.5	451.6	456.9	435.5	446.3
25°	799.6	776.4	681.8	480.0	531.0	457.8	465.9	423.0	434.7	422.1	430.2
27.5°	793.3	780.8	704.9	692.4	557.8	541.7	432.7	488.2	518.4	538.1	534.5
30°	1108.3	1035.2	816.5	714.8	658.7	518.4	475.6	462.2	458.7	482.0	483.7
32.5°	1113.7	1103.0	940.6	924.6	677.3	524.8	448.8	422.1	482.0	514.1	508.7
35°	1292.2	1236.9	1075.3	997.6	778.2	493.6	400.7	422.1	431.9	455.2	454.2
37.5°	1451.9	1435.0	1302.9	1102.1	749.6	449.8	452.5	449.8	438.1	441.7	441.7
40°	1664.3	1570.6	1452.8	1199.3	701.5	482.0	488.2	424.8	413.2	406.9	406.9
42.5°	1916.9	1758.0	1649.2	1246.6	666.6	567.6	462.2	414.9	403.3	385.4	382.9
45°	2214.9	2017.7	1854.3	1261.8	559.5	588.2	480.0	472.1	433.8	417.6	411.4
47.5°	2476.4	2317.6	2090.9	1286.8	648.8	561.3	631.8	536.4	418.6	441.7	438.1
50°	2869.0	2664.8	2256.9	1223.4	693.4	545.2	656.7	469.4	431.0	462.2	460.5
52.5°	3216.1	3021.7	2430.9	1128.0	655.9	754.1	582.8	538.1	499.8	483.7	482.0
55°	3579.5	3384.9	2548.7	1079.8	647.9	603.2	606.0	582.8	451.6	486.3	485.4
57.5°	3997.0	3889.9	2804.8	1059.3	664.0	532.7	606.0	487.3	514.9	486.3	491.6
60°	4220.1	4220.1	2953.9	1038.7	613.1	547.1	520.3	535.5	447.1	452.5	466.7
62°	4407.5	4457.6	3090.4	984.3	611.3	458.7	511.4	473.0	437.2	464.1	482.0
62.5°	4470.9	4509.2	3131.4	973.6	626.5	434.7	473.8	472.1	453.3	456.9	473.0
65°	4532.5	4710.0	3229.6	905.8	576.5	410.5	405.2	448.0	392.7	375.8	376.6
67.5°	4473.6	4718.2	3196.6	729.1	467.6	352.5	357.9	373.8	354.3	348.0	351.6
70°	4258.5	4357.6	2860.1	601.5	403.3	323.1	343.6	330.2	324.8	324.0	323.1
72.5°	3964.0	3775.8	2246.2	452.5	347.1	280.2	294.5	304.3	306.2	301.7	296.3
75°	3343.8	2965.4	1465.2	339.1	277.5	237.4	268.6	276.7	283.7	271.3	266.8
77.5°	2295.2	1869.5	758.6	269.6	240.1	199.0	235.6	248.1	255.2	236.4	239.2
80°	1065.5	853.1	350.7	220.3	199.0	165.1	200.0	216.0	225.7	200.8	191.9
82.5°	359.7	328.5	211.5	170.5	163.4	125.8	161.4	180.3	182.9	166.8	141.9
85°	214.1	215.0	148.1	131.2	120.5	78.5	116.1	141.9	141.9	117.8	96.3
87.5°	123.1	138.3	113.3	100.0	90.1	53.5	86.6	97.2	95.5	75.0	53.5
90°	61.6	72.3	66.9	66.0	67.8	33.9	67.8	73.2	73.2	51.8	33.0
92.5°	45.6	55.2	59.8	56.3	57.2	25.9	54.4	55.2	54.4	40.2	25.9
95°	38.4	48.2	59.8	56.3	54.4	21.5	49.9	51.0	51.8	39.3	28.5
97.5°	30.4	36.6	46.4	45.6	49.0	17.8	45.6	45.6	43.7	32.1	24.1
100°	27.7	32.1	39.3	39.3	42.8	16.1	40.2	36.6	34.9	25.9	22.3
102.5°	23.2	25.9	30.4	29.5	32.1	15.2	29.5	28.5	26.8	22.3	21.5
105°	22.3	23.2	23.2	21.5	22.3	14.3	20.5	19.6	18.8	18.8	19.6
107.5°	21.5	21.5	19.6	17.8	17.8	13.4	15.2	14.3	15.2	19.6	20.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	21.5	21.5	17.8	16.1	14.3	12.4	13.4	11.6	13.4	19.6	21.5
112.5°	21.5	21.5	16.1	13.4	13.4	11.6	11.6	10.7	12.4	19.6	21.5
115°	20.5	20.5	15.2	12.4	11.6	10.7	10.7	9.9	12.4	19.6	21.5
117.5°	20.5	20.5	15.2	12.4	10.7	9.9	9.9	9.0	12.4	20.5	21.5
120°	20.5	20.5	15.2	11.6	10.7	9.9	9.0	9.0	12.4	19.6	21.5
122.5°	19.6	18.8	14.3	10.7	9.9	9.0	9.0	9.0	12.4	20.5	21.5
125°	18.8	17.8	14.3	10.7	9.0	9.0	8.0	8.0	12.4	19.6	20.5
127.5°	17.8	17.8	13.4	9.9	9.0	8.0	8.0	8.0	12.4	20.5	20.5
130°	16.9	16.1	12.4	9.0	8.0	7.1	7.1	8.0	13.4	18.8	19.6
132.5°	15.2	14.3	11.6	8.0	7.1	7.1	7.1	7.1	12.4	18.8	18.8
135°	12.4	12.4	9.9	7.1	6.2	6.2	6.2	7.1	11.6	16.1	16.9
137.5°	11.6	10.7	9.0	7.1	5.4	6.2	6.2	7.1	11.6	15.2	16.1
140°	9.9	9.0	7.1	5.4	5.4	5.4	5.4	6.2	9.9	13.4	14.3
142.5°	7.1	7.1	6.2	4.5	4.5	4.5	4.5	6.2	9.0	11.6	11.6
145°	6.2	6.2	5.4	4.5	3.6	2.7	2.7	4.5	7.1	9.9	9.9
147.5°	4.5	4.5	4.5	3.6	2.7	2.7	2.7	3.6	5.4	7.1	7.1
150°	3.6	3.6	3.6	2.7	2.7	1.7	1.7	2.7	4.5	5.4	5.4
152.5°	2.7	2.7	2.7	2.7	1.7	1.7	1.7	1.7	2.7	3.6	3.6
155°	1.7	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	1.7	1.7
157.5°	0.9	0.9	0.9	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0
160°	0.9	0.9	0.9	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	1.7	1.7	0.9	0.9	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)