

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: P241124

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241124
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-AF24-90-D-U-T2U-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7838.2 lumens
Efficiency: N/A
Efficacy: 83.4 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: B3 - U3 - G3

Input Watts (W): 94
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

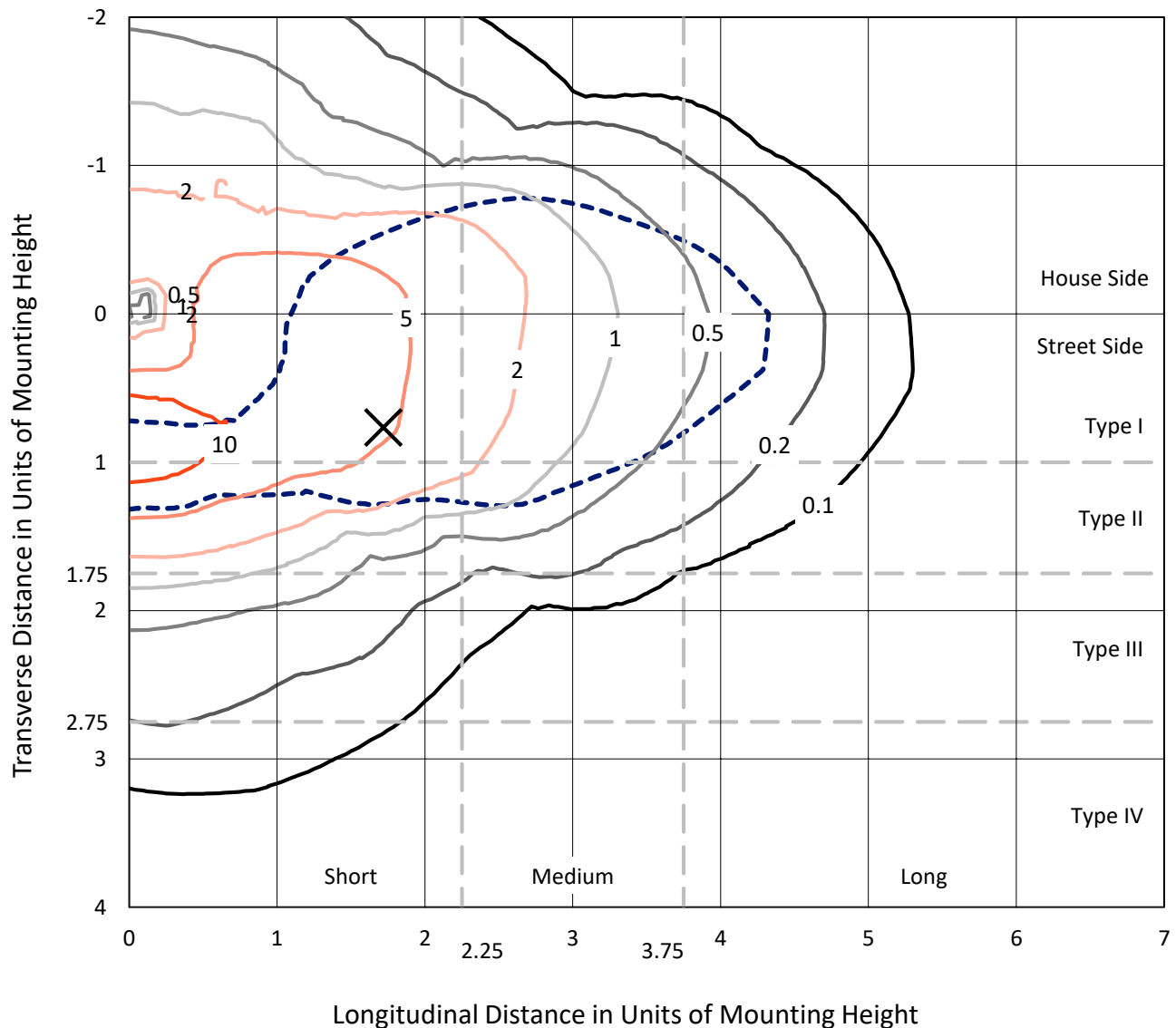


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

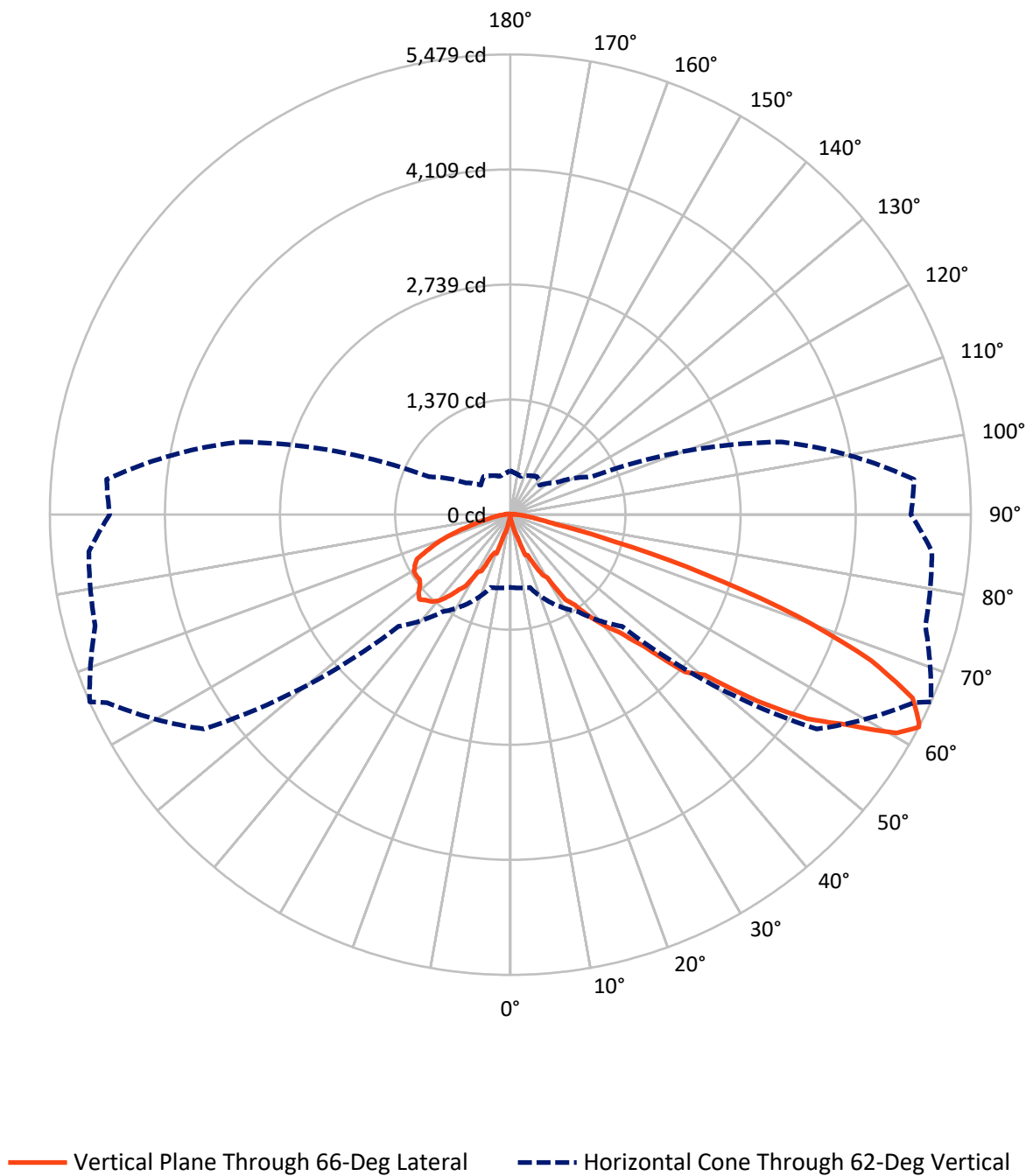


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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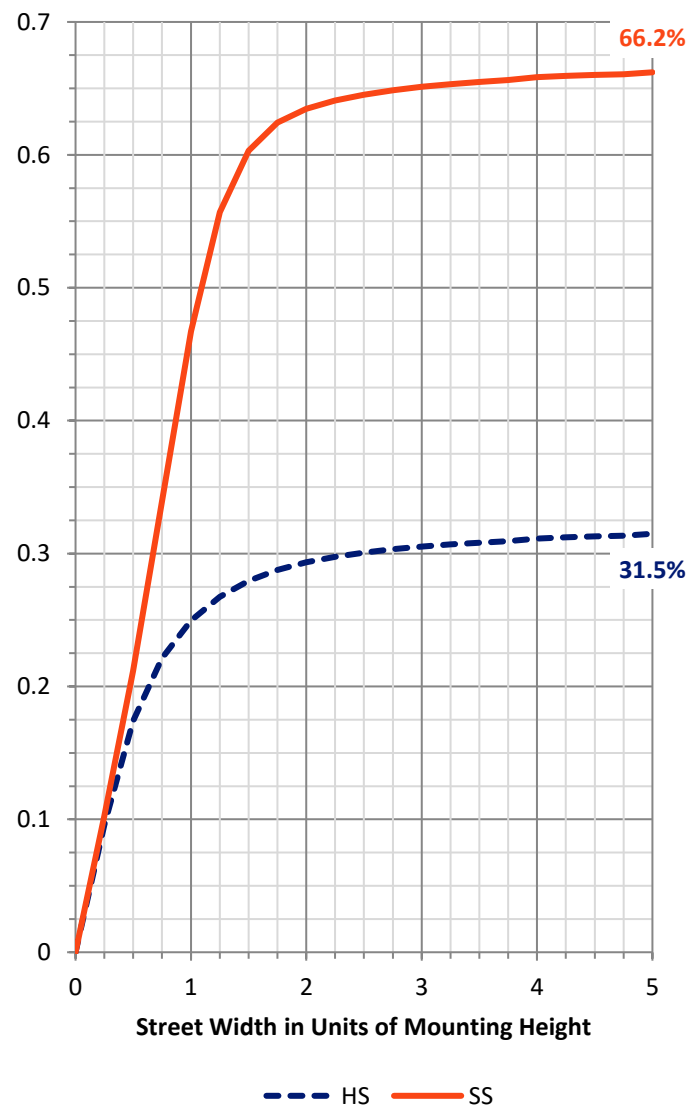
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2514.2	59.9	2574.1
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	5220.0	44.1	5264.0
	% Fixture	66.6	0.6	67.2
Total	Lumens	7734.2	104.0	7838.2
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	79.6	1.0
20°-30°	315.1	4.0
30°-40°	785.1	10.0
40°-50°	1497.2	19.1
50°-60°	2041.8	26.0
60°-70°	1875.7	23.9
70°-80°	956.8	12.2
80°-90°	176.0	2.2
90°-100°	46.5	0.6
100°-110°	22.3	0.3
110°-120°	13.5	0.2
120°-130°	10.4	0.1
130°-140°	6.9	0.1
140°-150°	3.4	0.0
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7734.2	98.7
0°-180°	7838.2	100.0

Coefficient of Utilization



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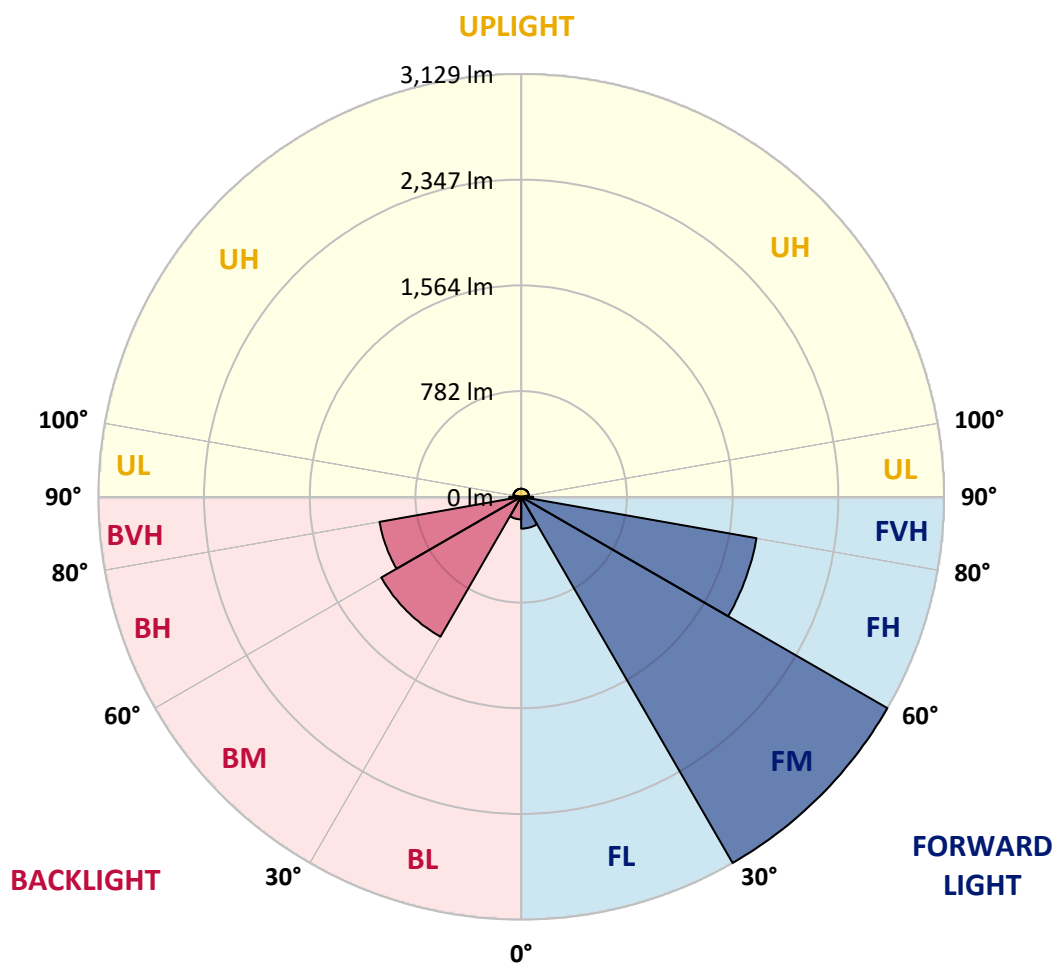
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.9	3.0			
FM	(30°-60°)	3128.7	39.9			
FH	(60°-80°)	1768.1	22.6			G1/1800
FVH	(80°-90°)	88.3	1.1			G1/100
BL	(0°-30°)	166.6	2.1	B1/500		
BM	(30°-60°)	1195.5	15.3	B2/2500		
BH	(60°-80°)	1064.4	13.6	B3/2500		G3/2500
BVH	(80°-90°)	87.7	1.1			G1/100
UL	(90°-100°)	46.5	0.6		U2/50	
UH	(100°-180°)	59.9	0.8		U3/500	

BUG Rating: B3-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	97.5	92.7	69.5	60.7	51.2	41.5	31.8	27.0	26.0	24.1	22.2
5°	97.5	97.5	100.4	106.2	117.8	107.1	112.9	40.5	38.6	26.0	21.2
7.5°	186.3	181.5	227.7	161.1	101.3	94.6	143.7	87.9	87.9	40.5	24.1
10°	251.9	250.9	307.9	196.8	181.5	220.0	97.5	100.4	100.4	69.5	33.8
12.5°	247.0	245.1	249.0	271.2	227.7	193.1	195.9	128.4	160.2	252.8	259.6
15°	347.5	365.8	346.5	265.4	243.2	242.2	312.7	237.4	241.3	277.9	203.7
17.5°	463.3	465.1	506.6	430.4	338.7	358.1	331.0	331.9	293.4	307.9	344.5
20°	504.7	496.0	519.2	481.5	481.5	428.6	337.7	478.7	514.4	483.5	477.7
22.5°	866.7	862.7	754.7	527.8	546.2	500.9	511.5	557.8	524.0	492.2	483.5
25°	988.2	975.6	938.0	900.4	669.8	702.5	619.5	606.1	643.6	776.9	840.5
27.5°	1314.4	1328.8	1134.8	1013.3	903.2	755.6	708.3	870.5	807.8	850.1	840.5
30°	1654.0	1646.3	1577.8	1355.0	1134.8	938.0	939.9	913.9	871.5	1001.7	1137.8
32.5°	2144.3	2169.5	1855.8	1622.2	1418.6	1141.6	1034.4	1215.0	1207.4	1169.6	1220.8
35°	2673.1	2669.3	2412.6	2027.6	1534.4	1291.2	1236.2	1343.4	1317.2	1259.3	1353.9
37.5°	3009.0	2971.3	2796.7	2465.7	1876.0	1471.7	1491.0	1569.2	1543.1	1466.8	1641.5
40°	3495.3	3453.9	3245.4	2795.7	2339.2	1783.4	1892.5	1828.8	1743.8	1730.3	1752.5
42.5°	3673.9	3675.8	3472.2	3145.0	2741.7	2229.2	2286.1	2006.3	1920.4	2064.2	2016.0
45°	3729.9	3722.1	3580.3	3335.1	3003.2	2762.0	2580.4	2329.6	2242.8	2373.9	2426.1
47.5°	3607.3	3576.4	3599.5	3325.6	3279.2	2994.5	2956.9	2779.3	2798.5	2724.3	2846.9
50°	3278.3	3232.9	3293.6	3222.3	3420.2	3246.4	3684.6	3011.8	3001.3	3135.4	3287.8
52.5°	2767.7	2734.0	2930.8	2872.0	3389.2	3521.4	3829.3	3681.6	3691.3	3703.8	3620.9
55°	2267.7	2285.1	2435.7	2401.0	2942.4	3581.3	4312.8	4230.7	4286.7	3976.0	3976.9
57.5°	1619.3	1657.9	1929.1	1949.4	2452.1	3149.8	4700.7	4569.4	4713.2	4422.9	4487.4
60°	1115.5	1138.7	1285.4	1490.0	1840.4	2615.2	4494.2	5148.6	5278.8	4877.4	4874.4
62°	865.7	875.2	897.4	1159.0	1412.8	1880.0	4448.8	5294.1	5478.5	5112.8	5033.7
62.5°	802.9	813.6	827.9	1051.8	1302.8	1709.1	4278.9	5326.1	5457.3	5142.8	5060.7
65°	642.7	647.6	614.7	699.7	920.6	1021.0	3074.5	5176.4	5260.4	5106.0	4982.4
67.5°	595.5	578.1	532.7	509.5	689.0	658.2	1673.5	4412.1	4629.4	4886.9	4758.6
70°	493.1	531.8	495.1	455.5	550.1	505.7	710.3	3570.6	3631.4	4473.9	4456.5
72.5°	377.4	405.4	434.3	429.4	423.6	407.2	471.9	2231.2	2409.7	3671.9	4126.5
75°	305.9	317.5	378.2	365.8	376.4	322.4	371.6	1060.6	1283.5	2598.8	3588.9
77.5°	246.1	253.8	294.4	283.7	311.7	251.9	296.3	480.6	544.3	1493.9	2457.9
80°	163.2	166.9	214.2	212.3	227.7	222.9	223.9	336.8	340.7	698.7	1286.4
82.5°	121.6	119.6	147.6	148.6	147.6	161.1	153.4	230.6	240.3	342.6	427.5
85°	79.1	76.3	87.9	93.6	89.7	88.8	115.9	162.1	169.0	244.2	254.8
87.5°	43.3	46.3	57.9	57.9	60.7	59.9	94.6	108.0	112.9	163.2	137.0
90°	29.0	29.0	31.8	30.9	32.8	31.8	49.1	63.7	64.7	82.1	73.3
92.5°	26.0	28.0	31.8	31.8	34.8	29.9	44.4	54.1	54.9	66.5	55.9
95°	23.2	24.1	27.0	28.0	29.9	21.2	33.8	44.4	45.4	54.9	45.4
97.5°	19.3	21.2	23.2	24.1	27.0	19.3	28.0	35.7	36.7	42.5	34.8
100°	19.3	20.2	20.2	20.2	23.2	16.4	24.1	30.9	31.8	34.8	29.0
102.5°	18.3	19.3	18.3	17.4	19.3	14.4	21.2	26.0	26.0	25.1	24.1
105°	18.3	18.3	15.4	13.5	16.4	13.5	18.3	19.3	19.3	19.3	22.2
107.5°	17.4	17.4	14.4	12.6	13.5	11.6	15.4	16.4	16.4	17.4	21.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	16.4	15.4	12.6	10.6	10.6	10.6	12.6	13.5	13.5	15.4	22.2
112.5°	14.4	14.4	10.6	9.7	9.7	9.7	11.6	12.6	12.6	14.4	21.2
115°	13.5	13.5	10.6	8.6	8.6	8.6	10.6	11.6	11.6	13.5	21.2
117.5°	14.4	13.5	9.7	8.6	7.7	7.7	8.6	10.6	10.6	13.5	21.2
120°	12.6	12.6	9.7	7.7	6.8	7.7	8.6	9.7	10.6	14.4	21.2
122.5°	13.5	12.6	9.7	6.8	6.8	6.8	7.7	9.7	9.7	13.5	19.3
125°	12.6	11.6	8.6	6.8	5.8	6.8	7.7	8.6	9.7	13.5	19.3
127.5°	12.6	11.6	8.6	6.8	5.8	5.8	7.7	8.6	8.6	12.6	18.3
130°	11.6	11.6	7.7	5.8	5.8	5.8	6.8	7.7	7.7	11.6	16.4
132.5°	10.6	9.7	7.7	5.8	4.8	5.8	6.8	6.8	6.8	10.6	15.4
135°	9.7	9.7	7.7	5.8	4.8	4.8	5.8	6.8	6.8	9.7	13.5
137.5°	8.6	8.6	7.7	5.8	4.8	4.8	4.8	5.8	5.8	8.6	11.6
140°	8.6	8.6	7.7	5.8	4.8	4.8	4.8	4.8	4.8	6.8	9.7
142.5°	8.6	8.6	7.7	5.8	4.8	3.9	3.9	3.9	3.9	5.8	7.7
145°	7.7	7.7	6.8	5.8	3.9	2.8	2.8	3.9	3.9	4.8	5.8
147.5°	7.7	7.7	6.8	4.8	2.8	1.9	1.9	2.8	2.8	3.9	4.8
150°	5.8	5.8	5.8	3.9	1.9	0.0	1.9	1.9	1.9	3.9	3.9
152.5°	3.9	3.9	2.8	1.9	1.0	1.0	1.0	1.9	1.9	1.9	2.8
155°	1.9	1.9	1.9	1.0	1.0	0.0	0.0	1.0	1.0	1.9	1.9
157.5°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
162.5°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0
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°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	22.2	21.2	21.2	21.2	22.2	22.2	22.2	21.2	20.2	20.2	20.2
5°	20.2	19.3	19.3	19.3	20.2	20.2	20.2	20.2	20.2	20.2	20.2
7.5°	22.2	20.2	20.2	19.3	19.3	20.2	22.2	32.8	57.0	80.1	93.6
10°	30.9	30.9	27.0	25.1	25.1	36.7	136.0	147.6	147.6	140.0	135.2
12.5°	279.8	221.0	194.9	68.5	55.9	113.8	130.2	122.6	169.9	197.9	209.4
15°	202.6	221.9	239.3	215.2	290.5	121.6	196.8	239.3	322.4	326.1	329.1
17.5°	340.7	367.6	265.4	231.6	271.2	360.0	294.4	305.0	305.0	305.0	305.9
20°	479.6	488.3	509.5	487.3	272.2	379.2	377.4	306.9	345.5	430.4	454.5
22.5°	509.5	526.9	501.8	486.4	575.1	354.2	389.8	488.3	494.1	470.9	482.5
25°	864.7	839.5	737.3	519.2	574.1	495.1	503.8	457.5	470.0	456.4	465.1
27.5°	857.9	844.3	762.4	748.9	603.1	585.7	468.0	527.8	560.7	582.0	578.1
30°	1198.6	1119.5	883.1	773.0	712.2	560.7	514.4	499.9	496.0	521.1	523.1
32.5°	1204.4	1192.8	1017.1	999.8	732.5	567.5	485.4	456.4	521.1	555.9	550.1
35°	1397.4	1337.6	1162.8	1078.9	841.6	533.6	433.3	456.4	467.1	492.2	491.2
37.5°	1570.2	1551.8	1409.0	1191.8	810.6	486.4	489.3	486.4	473.8	477.7	477.7
40°	1799.8	1698.4	1571.0	1297.0	758.5	521.1	527.8	459.3	446.8	440.1	440.1
42.5°	2072.8	1901.1	1783.4	1348.1	720.9	613.7	499.9	448.7	436.2	417.0	414.0
45°	2395.2	2181.9	2005.4	1364.5	605.1	636.0	519.2	510.5	469.0	451.7	444.9
47.5°	2678.0	2506.2	2261.1	1391.6	701.6	607.1	683.2	579.9	452.6	477.7	473.8
50°	3102.6	2881.6	2440.6	1323.0	749.8	589.7	710.3	507.6	466.1	499.9	498.0
52.5°	3477.9	3267.6	2628.8	1219.8	709.3	815.4	630.2	582.0	540.4	523.1	521.1
55°	3870.7	3660.4	2756.2	1167.7	700.6	652.4	655.2	630.2	488.3	526.0	525.0
57.5°	4322.4	4206.6	3033.1	1145.5	718.0	576.2	655.2	526.9	556.7	526.0	531.8
60°	4563.6	4563.6	3194.3	1123.3	662.9	591.5	562.5	579.1	483.5	489.3	504.7
62°	4766.3	4820.4	3341.9	1064.4	661.0	496.0	553.0	511.5	472.9	501.8	521.1
62.5°	4834.8	4876.3	3386.3	1052.8	677.4	470.0	512.4	510.5	490.2	494.1	511.5
65°	4901.4	5093.4	3492.5	979.5	623.5	443.9	438.1	484.4	424.6	406.2	407.2
67.5°	4837.8	5102.2	3456.8	788.5	505.7	381.2	387.0	404.4	383.2	376.4	380.2
70°	4605.2	4712.3	3092.9	650.4	436.2	349.3	371.6	357.1	351.3	350.2	349.3
72.5°	4286.7	4083.0	2429.0	489.3	375.5	302.9	318.5	329.1	331.0	326.1	320.3
75°	3616.1	3206.9	1584.6	366.7	300.1	256.6	290.5	299.2	306.9	293.4	288.6
77.5°	2482.1	2021.8	820.3	291.4	259.6	215.2	254.8	268.2	276.0	255.7	258.6
80°	1152.2	922.5	379.2	238.4	215.2	178.5	216.2	233.5	244.2	217.1	207.5
82.5°	389.0	355.1	228.7	184.3	176.6	136.0	174.7	194.9	197.9	180.5	153.4
85°	231.6	232.6	160.2	141.8	130.2	84.9	125.4	153.4	153.4	127.4	104.3
87.5°	133.2	149.5	122.6	108.0	97.5	57.9	93.6	105.2	103.2	81.1	57.9
90°	66.5	78.1	72.3	71.4	73.3	36.7	73.3	79.1	79.1	55.9	35.7
92.5°	49.1	59.9	64.7	60.7	61.7	28.0	58.9	59.9	58.9	43.3	28.0
95°	41.5	52.1	64.7	60.7	58.9	23.2	54.1	54.9	55.9	42.5	30.9
97.5°	32.8	39.6	50.1	49.1	53.1	19.3	49.1	49.1	47.3	34.8	26.0
100°	29.9	34.8	42.5	42.5	46.3	17.4	43.3	39.6	37.5	28.0	24.1
102.5°	25.1	28.0	32.8	31.8	34.8	16.4	31.8	30.9	29.0	24.1	23.2
105°	24.1	25.1	25.1	23.2	24.1	15.4	22.2	21.2	20.2	20.2	21.2
107.5°	23.2	23.2	21.2	19.3	19.3	14.4	16.4	15.4	16.4	21.2	22.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	23.2	23.2	19.3	17.4	15.4	13.5	14.4	12.6	14.4	21.2	23.2
112.5°	23.2	23.2	17.4	14.4	14.4	12.6	12.6	11.6	13.5	21.2	23.2
115°	22.2	22.2	16.4	13.5	12.6	11.6	11.6	10.6	13.5	21.2	23.2
117.5°	22.2	22.2	16.4	13.5	11.6	10.6	10.6	9.7	13.5	22.2	23.2
120°	22.2	22.2	16.4	12.6	11.6	10.6	9.7	9.7	13.5	21.2	23.2
122.5°	21.2	20.2	15.4	11.6	10.6	9.7	9.7	9.7	13.5	22.2	23.2
125°	20.2	19.3	15.4	11.6	9.7	9.7	8.6	8.6	13.5	21.2	22.2
127.5°	19.3	19.3	14.4	10.6	9.7	8.6	8.6	8.6	13.5	22.2	22.2
130°	18.3	17.4	13.5	9.7	8.6	7.7	7.7	8.6	14.4	20.2	21.2
132.5°	16.4	15.4	12.6	8.6	7.7	7.7	7.7	7.7	13.5	20.2	20.2
135°	13.5	13.5	10.6	7.7	6.8	6.8	6.8	7.7	12.6	17.4	18.3
137.5°	12.6	11.6	9.7	7.7	5.8	6.8	6.8	7.7	12.6	16.4	17.4
140°	10.6	9.7	7.7	5.8	5.8	5.8	5.8	6.8	10.6	14.4	15.4
142.5°	7.7	7.7	6.8	4.8	4.8	4.8	4.8	6.8	9.7	12.6	12.6
145°	6.8	6.8	5.8	4.8	3.9	2.8	2.8	4.8	7.7	10.6	10.6
147.5°	4.8	4.8	4.8	3.9	2.8	2.8	2.8	3.9	5.8	7.7	7.7
150°	3.9	3.9	3.9	2.8	2.8	1.9	1.9	2.8	4.8	5.8	5.8
152.5°	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	2.8	3.9	3.9
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.9	1.9
157.5°	1.0	1.0	1.0	1.9	1.9	1.9	1.0	1.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.9	1.9	1.9	1.0	1.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.9	1.9	1.0	1.0	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)