

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: P266442

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266442
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-AF24-70-D-U-T2U-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA 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: 5950.7 lumens
Efficiency: N/A
Efficacy: 80.4 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: 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

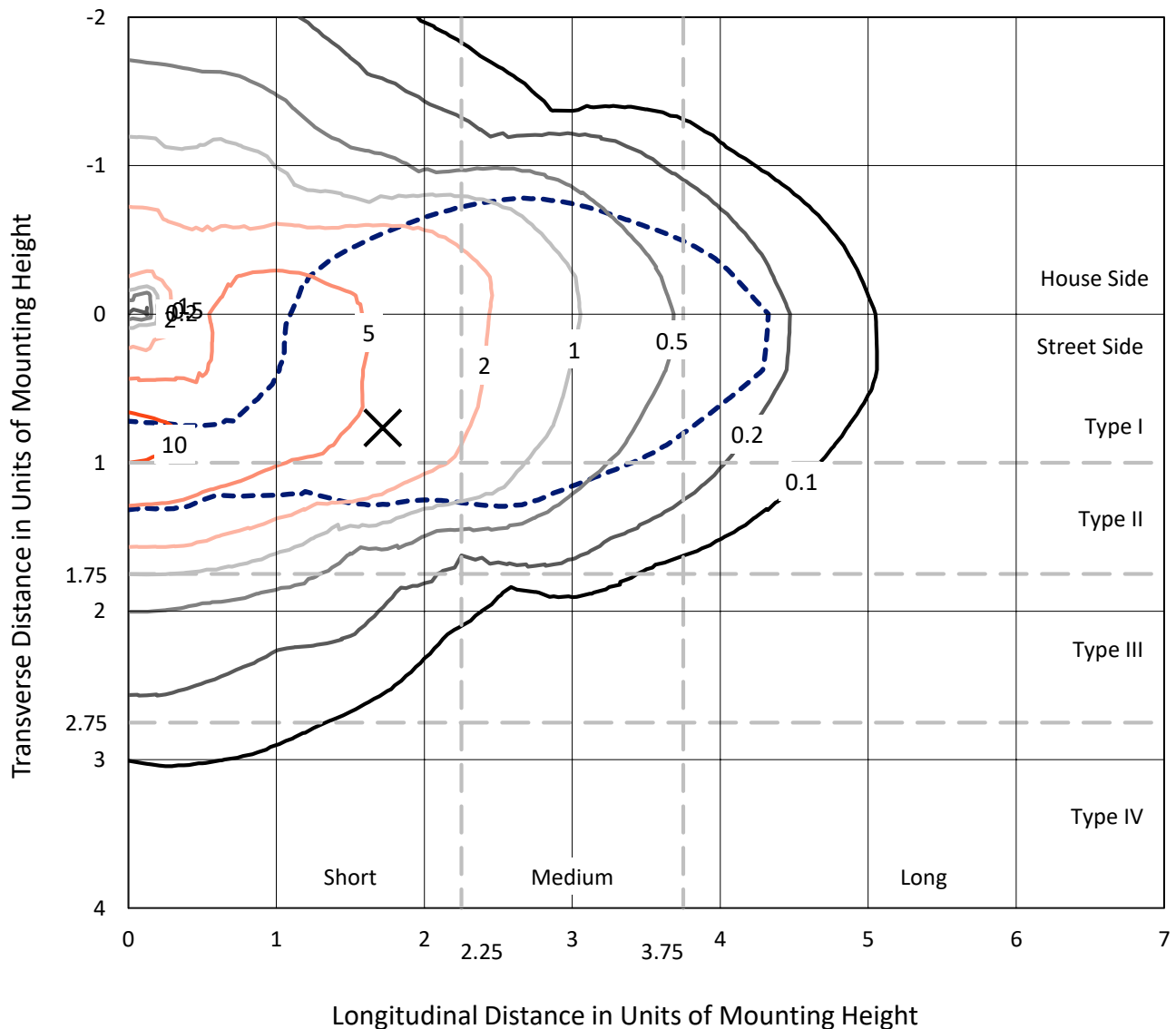


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

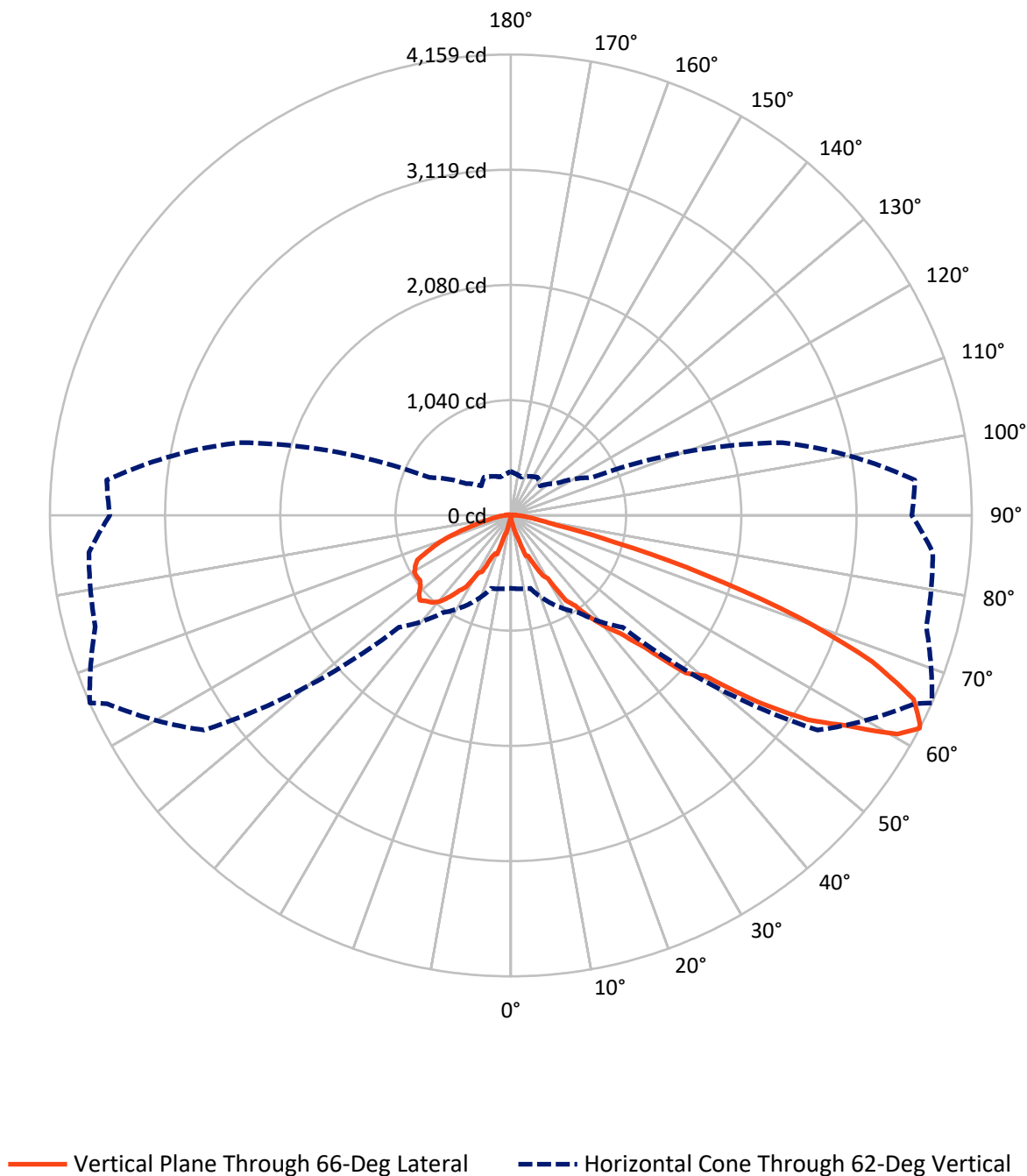


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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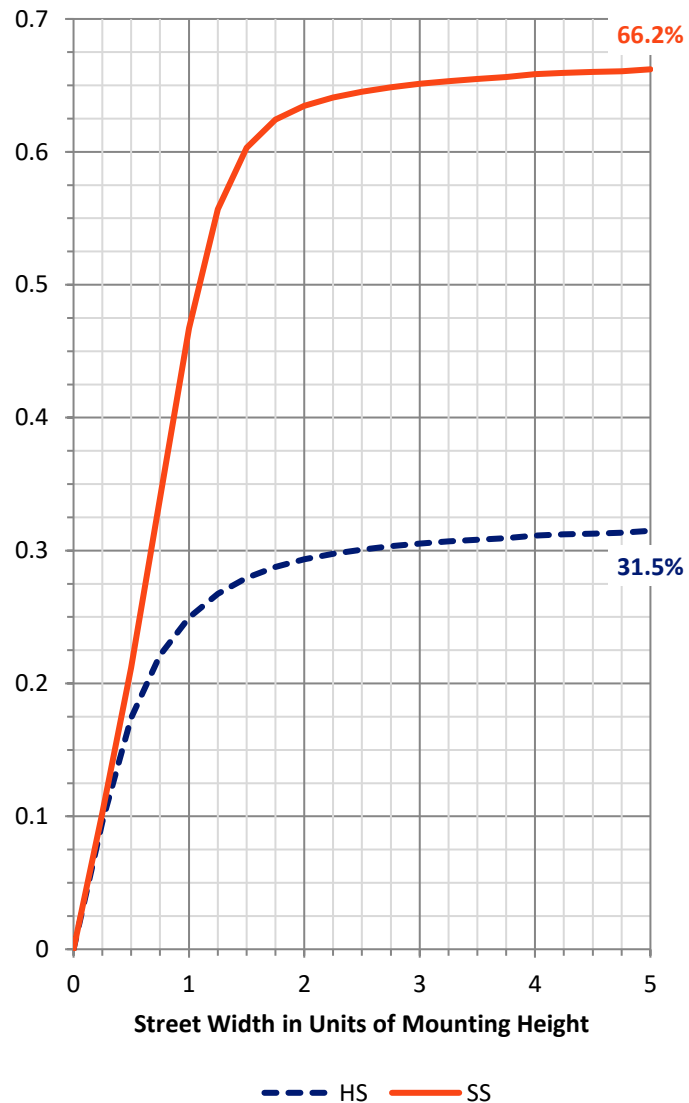
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1908.8	45.5	1954.3
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	3962.9	33.5	3996.4
	% Fixture	66.6	0.6	67.2
Total	Lumens	5871.7	79.0	5950.7
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	60.4	1.0
20°-30°	239.2	4.0
30°-40°	596.1	10.0
40°-50°	1136.6	19.1
50°-60°	1550.1	26.0
60°-70°	1424.0	23.9
70°-80°	726.4	12.2
80°-90°	133.6	2.2
90°-100°	35.3	0.6
100°-110°	17.0	0.3
110°-120°	10.3	0.2
120°-130°	7.9	0.1
130°-140°	5.3	0.1
140°-150°	2.6	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5871.7	98.7
0°-180°	5950.7	100.0

Coefficient of Utilization



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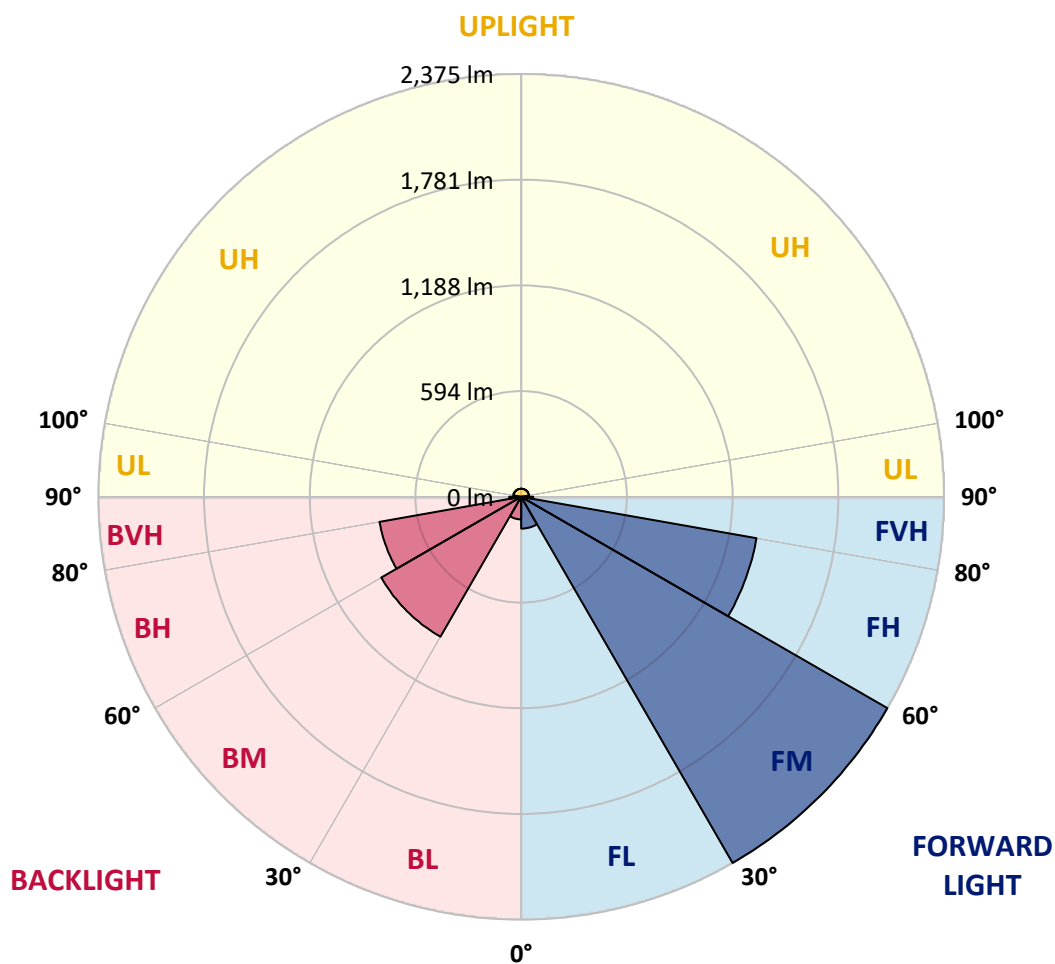
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.3	3.0			
FM	(30°-60°)	2375.3	39.9			
FH	(60°-80°)	1342.3	22.6			G1/1800
FVH	(80°-90°)	67.0	1.1			G1/100
BL	(0°-30°)	126.5	2.1	B1/500		
BM	(30°-60°)	907.6	15.3	B1/1000		
BH	(60°-80°)	808.1	13.6	B2/1000		G2/1000
BVH	(80°-90°)	66.6	1.1			G1/100
UL	(90°-100°)	35.3	0.6		U2/50	
UH	(100°-180°)	45.5	0.8		U2/50	

BUG Rating: B2-U2-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	74.0	70.3	52.7	46.2	38.8	31.5	24.2	20.5	19.9	18.3	16.9
5°	74.0	74.0	76.1	80.6	89.4	81.3	85.7	30.8	29.4	19.9	16.1
7.5°	141.5	137.7	173.0	122.3	77.0	71.9	109.1	66.7	66.7	30.8	18.3
10°	191.2	190.5	233.6	149.5	137.7	167.1	74.0	76.1	76.1	52.7	25.6
12.5°	187.6	186.0	189.1	205.9	173.0	146.6	148.7	97.5	121.6	192.0	197.1
15°	263.7	277.7	263.1	201.5	184.6	184.0	237.4	180.2	183.2	211.0	154.6
17.5°	351.6	353.2	384.7	326.8	257.2	271.7	251.3	252.1	222.7	233.6	261.5
20°	383.1	376.6	394.1	365.6	365.6	325.2	256.5	363.4	390.6	367.0	362.6
22.5°	657.9	655.0	572.8	400.7	414.7	380.3	388.2	423.6	397.8	373.6	367.0
25°	750.3	740.7	712.1	683.6	508.4	533.4	470.4	460.1	488.7	589.7	638.2
27.5°	997.8	1008.8	861.6	769.3	685.8	573.7	537.7	660.9	613.3	645.4	638.2
30°	1255.7	1249.9	1197.9	1028.6	861.6	712.1	713.7	693.9	661.6	760.4	863.8
32.5°	1628.0	1647.0	1408.9	1231.5	1077.0	866.8	785.4	922.4	916.5	888.0	926.8
35°	2029.5	2026.4	1831.6	1539.2	1164.9	980.3	938.5	1019.8	1000.1	956.1	1027.9
37.5°	2284.4	2255.9	2123.2	1871.9	1424.3	1117.3	1132.0	1191.3	1171.5	1113.5	1246.2
40°	2653.7	2622.2	2464.0	2122.4	1775.9	1353.9	1436.7	1388.4	1323.9	1313.6	1330.5
42.5°	2789.1	2790.7	2636.0	2387.7	2081.5	1692.3	1735.6	1523.2	1457.9	1567.2	1530.5
45°	2831.6	2825.8	2718.1	2532.1	2280.0	2096.9	1959.2	1768.7	1702.6	1802.3	1841.9
47.5°	2738.7	2715.1	2732.7	2524.6	2489.6	2273.4	2244.9	2109.9	2124.8	2068.3	2161.3
50°	2488.8	2454.3	2500.5	2446.4	2596.6	2464.6	2797.2	2286.5	2278.6	2380.4	2496.1
52.5°	2101.2	2075.5	2225.0	2180.4	2573.0	2673.4	2907.2	2795.0	2802.4	2811.9	2749.0
55°	1721.7	1734.8	1849.3	1822.8	2233.8	2718.8	3274.2	3211.9	3254.4	3018.6	3019.3
57.5°	1229.4	1258.6	1464.5	1480.0	1861.6	2391.4	3568.6	3469.1	3578.3	3357.8	3406.8
60°	846.9	864.4	975.9	1131.1	1397.1	1985.4	3411.9	3908.6	4007.6	3702.9	3700.6
62°	657.2	664.4	681.4	879.9	1072.5	1427.1	3377.4	4019.2	4159.2	3881.5	3821.5
62.5°	609.6	617.7	628.6	798.7	989.0	1297.5	3248.5	4043.5	4143.2	3904.3	3842.1
65°	487.9	491.6	466.7	531.2	698.9	775.1	2334.2	3929.9	3993.7	3876.5	3782.7
67.5°	452.0	438.8	404.4	386.8	523.2	499.6	1270.5	3349.7	3514.4	3710.1	3612.7
70°	374.4	403.7	375.9	345.8	417.6	383.8	539.3	2710.7	2757.0	3396.5	3383.3
72.5°	286.5	307.7	329.7	326.1	321.7	309.1	358.2	1693.8	1829.4	2787.7	3132.7
75°	232.2	241.0	287.2	277.7	285.8	244.7	282.1	805.2	974.4	1972.9	2724.6
77.5°	186.8	192.6	223.5	215.5	236.7	191.2	224.9	364.8	413.2	1134.1	1866.0
80°	123.8	126.8	162.7	161.2	173.0	169.2	170.0	255.7	258.6	530.4	976.5
82.5°	92.3	90.9	112.1	112.8	112.1	122.3	116.5	175.1	182.4	260.1	324.6
85°	60.0	57.9	66.7	71.1	68.1	67.5	87.9	123.1	128.2	185.4	193.4
87.5°	33.0	35.2	43.9	43.9	46.2	45.5	71.9	82.0	85.7	123.8	104.1
90°	22.0	22.0	24.2	23.4	25.0	24.2	37.4	48.4	49.0	62.3	55.7
92.5°	19.9	21.2	24.2	24.2	26.4	22.6	33.6	41.1	41.7	50.6	42.5
95°	17.5	18.3	20.5	21.2	22.6	16.1	25.6	33.6	34.5	41.7	34.5
97.5°	14.6	16.1	17.5	18.3	20.5	14.6	21.2	27.0	27.8	32.2	26.4
100°	14.6	15.5	15.5	15.5	17.5	12.4	18.3	23.4	24.2	26.4	22.0
102.5°	14.0	14.6	14.0	13.1	14.6	11.0	16.1	19.9	19.9	19.0	18.3
105°	14.0	14.0	11.7	10.3	12.4	10.3	14.0	14.6	14.6	14.6	16.9
107.5°	13.1	13.1	11.0	9.5	10.3	8.9	11.7	12.4	12.4	13.1	16.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	12.4	11.7	9.5	8.1	8.1	8.1	9.5	10.3	10.3	11.7	16.9
112.5°	11.0	11.0	8.1	7.4	7.4	7.4	8.9	9.5	9.5	11.0	16.1
115°	10.3	10.3	8.1	6.6	6.6	6.6	8.1	8.9	8.9	10.3	16.1
117.5°	11.0	10.3	7.4	6.6	5.8	5.8	6.6	8.1	8.1	10.3	16.1
120°	9.5	9.5	7.4	5.8	5.1	5.8	6.6	7.4	8.1	11.0	16.1
122.5°	10.3	9.5	7.4	5.1	5.1	5.1	5.8	7.4	7.4	10.3	14.6
125°	9.5	8.9	6.6	5.1	4.4	5.1	5.8	6.6	7.4	10.3	14.6
127.5°	9.5	8.9	6.6	5.1	4.4	4.4	5.8	6.6	6.6	9.5	14.0
130°	8.9	8.9	5.8	4.4	4.4	4.4	5.1	5.8	5.8	8.9	12.4
132.5°	8.1	7.4	5.8	4.4	3.7	4.4	5.1	5.1	5.1	8.1	11.7
135°	7.4	7.4	5.8	4.4	3.7	3.7	4.4	5.1	5.1	7.4	10.3
137.5°	6.6	6.6	5.8	4.4	3.7	3.7	3.7	4.4	4.4	6.6	8.9
140°	6.6	6.6	5.8	4.4	3.7	3.7	3.7	3.7	3.7	5.1	7.4
142.5°	6.6	6.6	5.8	4.4	3.7	3.0	3.0	3.0	3.0	4.4	5.8
145°	5.8	5.8	5.1	4.4	3.0	2.2	2.2	3.0	3.0	3.7	4.4
147.5°	5.8	5.8	5.1	3.7	2.2	1.4	1.4	2.2	2.2	3.0	3.7
150°	4.4	4.4	4.4	3.0	1.4	0.0	1.4	1.4	1.4	3.0	3.0
152.5°	3.0	3.0	2.2	1.4	0.7	0.7	0.7	1.4	1.4	1.4	2.2
155°	1.4	1.4	1.4	0.7	0.7	0.0	0.0	0.7	0.7	1.4	1.4
157.5°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
162.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7
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°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	16.9	16.1	16.1	16.1	16.9	16.9	16.9	16.1	15.5	15.5	15.5
5°	15.5	14.6	14.6	14.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5
7.5°	16.9	15.5	15.5	14.6	14.6	15.5	16.9	25.0	43.2	60.8	71.1
10°	23.4	23.4	20.5	19.0	19.0	27.8	103.3	112.1	112.1	106.2	102.5
12.5°	212.4	167.8	148.0	52.0	42.5	86.4	99.0	93.1	128.9	150.1	159.0
15°	153.9	168.5	181.6	163.4	220.5	92.3	149.5	181.6	244.7	247.7	249.8
17.5°	258.6	279.2	201.5	175.9	205.9	273.3	223.5	231.6	231.6	231.6	232.2
20°	364.2	370.7	386.8	370.0	206.6	287.9	286.5	233.0	262.2	326.8	345.0
22.5°	386.8	400.0	381.1	369.3	436.7	269.0	296.0	370.7	375.1	357.5	366.2
25°	656.4	637.3	559.7	394.1	435.9	375.9	382.5	347.3	356.7	346.6	353.2
27.5°	651.4	641.1	578.8	568.5	457.9	444.8	355.3	400.7	425.6	441.7	438.8
30°	910.0	849.8	670.3	586.9	540.7	425.6	390.6	379.5	376.6	395.7	397.1
32.5°	914.4	905.5	772.3	759.0	556.1	430.7	368.6	346.6	395.7	422.1	417.6
35°	1060.9	1015.4	882.9	819.2	638.9	405.1	329.0	346.6	354.7	373.6	372.9
37.5°	1192.1	1178.0	1069.6	904.9	615.3	369.3	371.4	369.3	359.7	362.6	362.6
40°	1366.4	1289.4	1192.8	984.7	575.9	395.7	400.7	348.7	339.2	334.1	334.1
42.5°	1573.7	1443.2	1353.9	1023.4	547.2	466.0	379.5	340.6	331.1	316.6	314.2
45°	1818.3	1656.6	1522.4	1035.9	459.4	482.7	394.1	387.6	356.1	342.9	337.8
47.5°	2033.1	1902.7	1716.7	1056.4	532.6	460.8	518.7	440.3	343.6	362.6	359.7
50°	2355.4	2187.7	1852.8	1004.5	569.3	447.6	539.3	385.4	353.8	379.5	378.0
52.5°	2640.5	2480.7	1995.8	926.1	538.5	619.1	478.3	441.7	410.3	397.1	395.7
55°	2938.6	2778.9	2092.4	886.4	531.8	495.2	497.5	478.3	370.7	399.2	398.6
57.5°	3281.5	3193.7	2302.7	869.6	545.1	437.4	497.5	400.0	422.7	399.2	403.7
60°	3464.8	3464.8	2425.1	852.9	503.3	449.2	427.1	439.6	367.0	371.4	383.1
62°	3618.6	3659.5	2537.2	808.1	501.9	376.6	419.8	388.2	359.1	381.1	395.7
62.5°	3670.6	3702.1	2570.9	799.3	514.3	356.7	389.1	387.6	372.2	375.1	388.2
65°	3721.0	3866.9	2651.4	743.6	473.2	337.0	332.6	367.8	322.3	308.5	309.1
67.5°	3672.7	3873.5	2624.4	598.6	383.8	289.4	293.7	307.0	290.8	285.8	288.6
70°	3496.2	3577.5	2348.1	493.8	331.1	265.2	282.1	271.1	266.6	266.0	265.2
72.5°	3254.4	3099.8	1844.1	371.4	285.0	230.1	241.7	249.8	251.3	247.7	243.3
75°	2745.2	2434.5	1203.0	278.5	227.9	194.9	220.5	227.1	233.0	222.7	219.0
77.5°	1884.4	1534.9	622.7	221.3	197.1	163.4	193.4	203.6	209.6	194.2	196.4
80°	874.8	700.4	287.9	181.0	163.4	135.6	164.1	177.2	185.4	164.8	157.6
82.5°	295.3	269.6	173.6	140.0	134.0	103.3	132.6	148.0	150.1	137.0	116.5
85°	175.9	176.5	121.6	107.6	99.0	64.5	95.2	116.5	116.5	96.7	79.1
87.5°	101.1	113.5	93.1	82.0	74.0	43.9	71.1	79.9	78.4	61.5	43.9
90°	50.6	59.4	54.9	54.2	55.7	27.8	55.7	60.0	60.0	42.5	27.0
92.5°	37.4	45.5	49.0	46.2	46.9	21.2	44.6	45.5	44.6	33.0	21.2
95°	31.5	39.5	49.0	46.2	44.6	17.5	41.1	41.7	42.5	32.2	23.4
97.5°	25.0	30.1	38.1	37.4	40.3	14.6	37.4	37.4	35.9	26.4	19.9
100°	22.6	26.4	32.2	32.2	35.2	13.1	33.0	30.1	28.6	21.2	18.3
102.5°	19.0	21.2	25.0	24.2	26.4	12.4	24.2	23.4	22.0	18.3	17.5
105°	18.3	19.0	19.0	17.5	18.3	11.7	16.9	16.1	15.5	15.5	16.1
107.5°	17.5	17.5	16.1	14.6	14.6	11.0	12.4	11.7	12.4	16.1	16.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	17.5	17.5	14.6	13.1	11.7	10.3	11.0	9.5	11.0	16.1	17.5
112.5°	17.5	17.5	13.1	11.0	11.0	9.5	9.5	8.9	10.3	16.1	17.5
115°	16.9	16.9	12.4	10.3	9.5	8.9	8.9	8.1	10.3	16.1	17.5
117.5°	16.9	16.9	12.4	10.3	8.9	8.1	8.1	7.4	10.3	16.9	17.5
120°	16.9	16.9	12.4	9.5	8.9	8.1	7.4	7.4	10.3	16.1	17.5
122.5°	16.1	15.5	11.7	8.9	8.1	7.4	7.4	7.4	10.3	16.9	17.5
125°	15.5	14.6	11.7	8.9	7.4	7.4	6.6	6.6	10.3	16.1	16.9
127.5°	14.6	14.6	11.0	8.1	7.4	6.6	6.6	6.6	10.3	16.9	16.9
130°	14.0	13.1	10.3	7.4	6.6	5.8	5.8	6.6	11.0	15.5	16.1
132.5°	12.4	11.7	9.5	6.6	5.8	5.8	5.8	5.8	10.3	15.5	15.5
135°	10.3	10.3	8.1	5.8	5.1	5.1	5.1	5.8	9.5	13.1	14.0
137.5°	9.5	8.9	7.4	5.8	4.4	5.1	5.1	5.8	9.5	12.4	13.1
140°	8.1	7.4	5.8	4.4	4.4	4.4	4.4	5.1	8.1	11.0	11.7
142.5°	5.8	5.8	5.1	3.7	3.7	3.7	3.7	5.1	7.4	9.5	9.5
145°	5.1	5.1	4.4	3.7	3.0	2.2	2.2	3.7	5.8	8.1	8.1
147.5°	3.7	3.7	3.7	3.0	2.2	2.2	2.2	3.0	4.4	5.8	5.8
150°	3.0	3.0	3.0	2.2	2.2	1.4	1.4	2.2	3.7	4.4	4.4
152.5°	2.2	2.2	2.2	2.2	1.4	1.4	1.4	1.4	2.2	3.0	3.0
155°	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	1.4	1.4
157.5°	0.7	0.7	0.7	1.4	1.4	1.4	0.7	0.7	0.0	0.0	0.0
160°	0.7	0.7	0.7	1.4	1.4	1.4	0.7	0.7	0.0	0.0	0.0
162.5°	0.7	0.7	0.7	0.7	1.4	1.4	0.7	0.7	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)