

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: P241120

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241120
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-AF24-50-D-U-T2U-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA 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: 5092.6 lumens
Efficiency: N/A
Efficacy: 94.3 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 - U2 - G2

Input Watts (W): 54
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

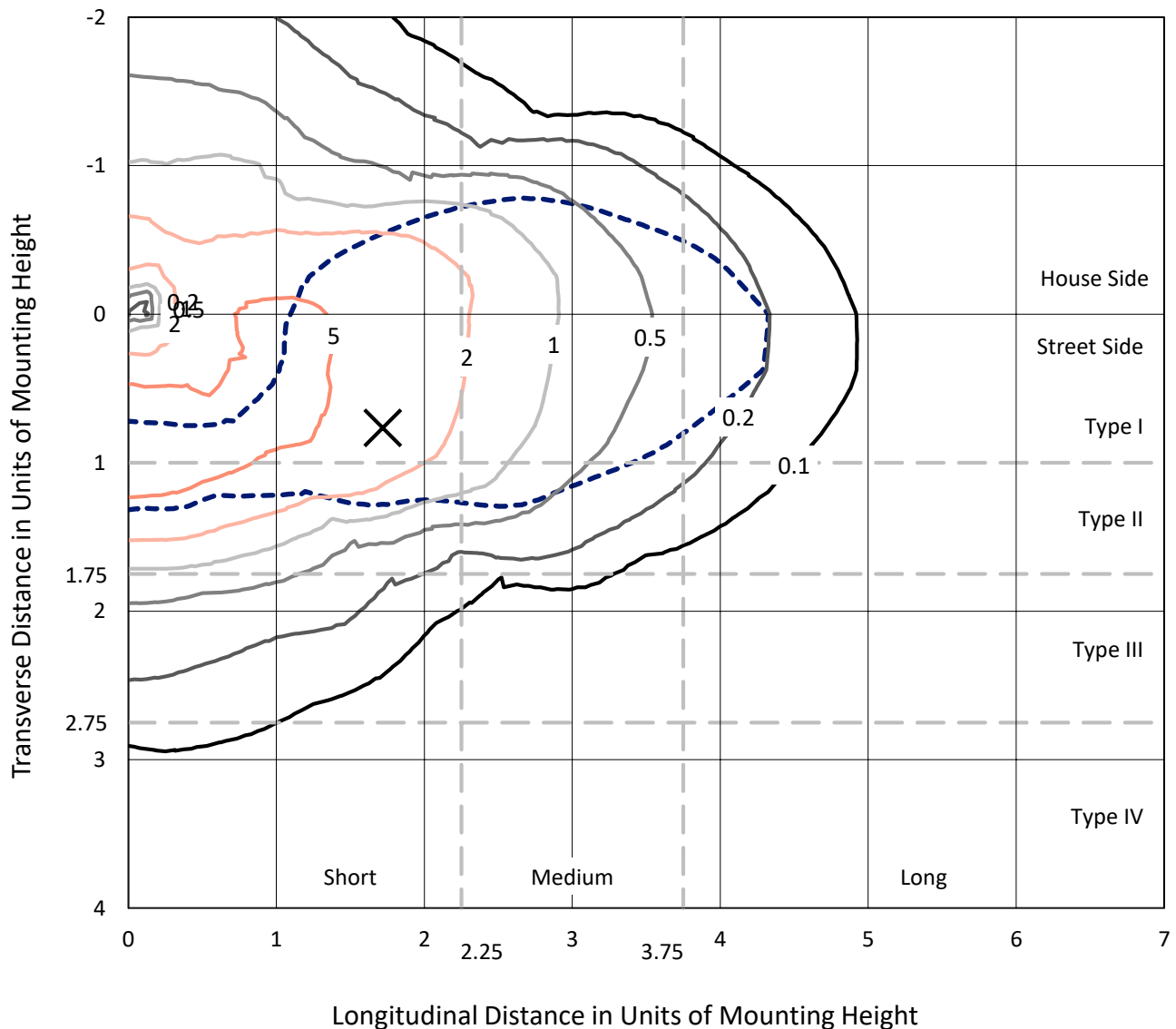


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

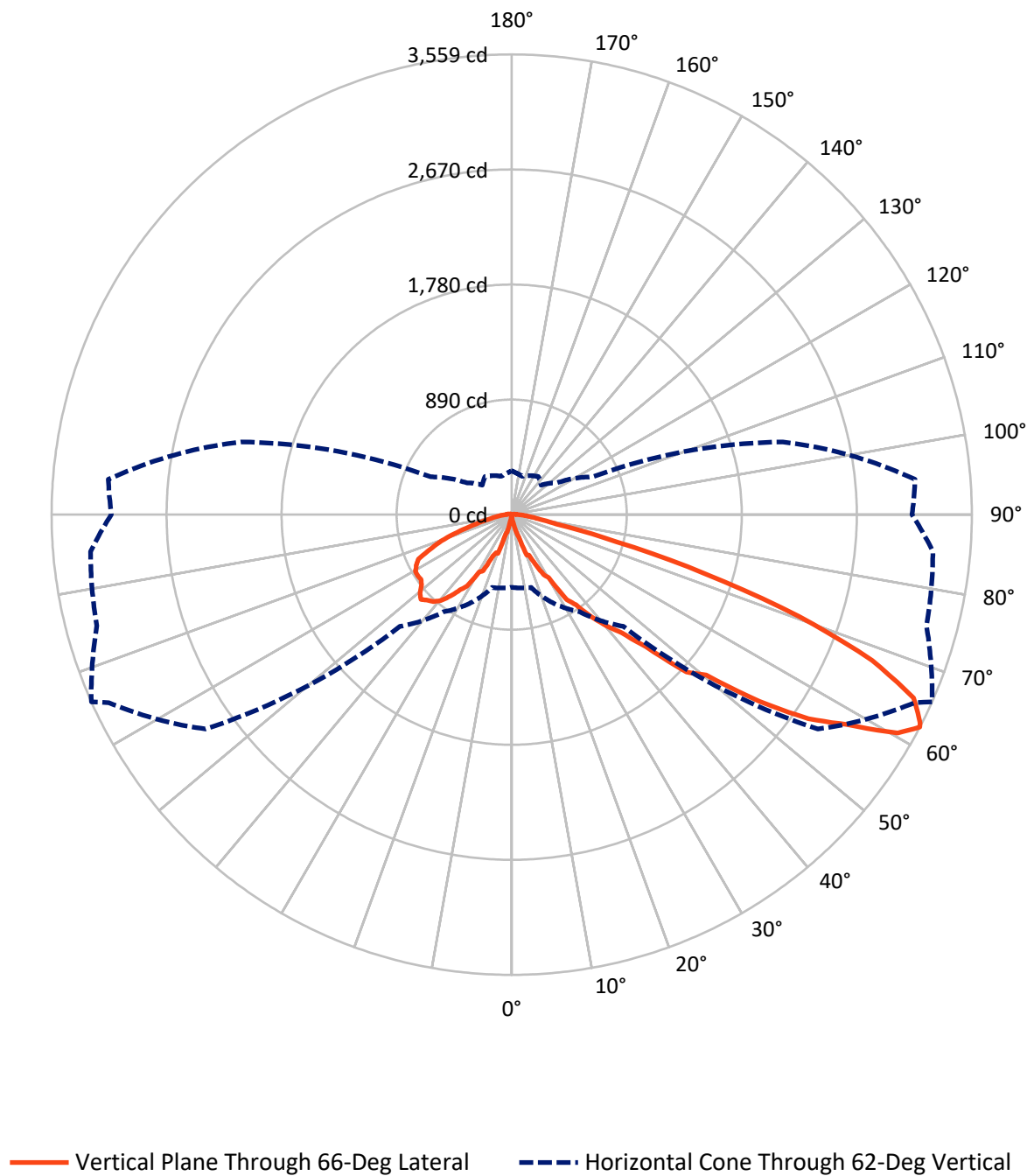


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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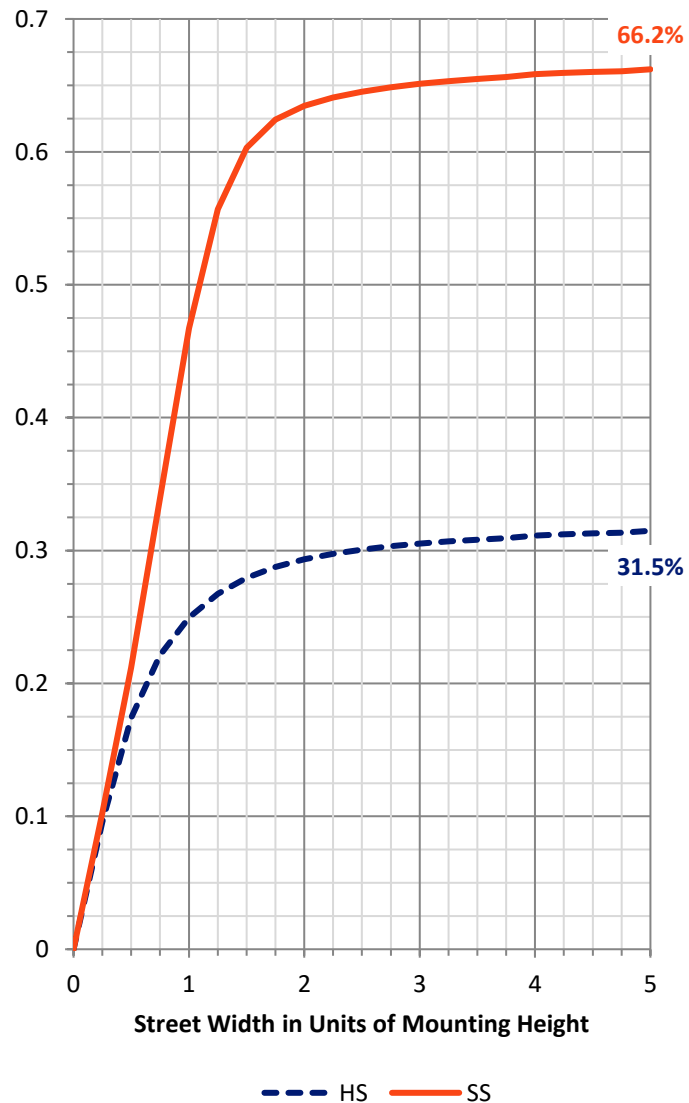
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.5	38.9	1672.4
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	3391.5	28.6	3420.1
	% Fixture	66.6	0.6	67.2
Total	Lumens	5025.0	67.6	5092.6
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.1
10°-20°	51.7	1.0
20°-30°	204.7	4.0
30°-40°	510.1	10.0
40°-50°	972.7	19.1
50°-60°	1326.6	26.0
60°-70°	1218.7	23.9
70°-80°	621.7	12.2
80°-90°	114.3	2.2
90°-100°	30.2	0.6
100°-110°	14.5	0.3
110°-120°	8.8	0.2
120°-130°	6.8	0.1
130°-140°	4.5	0.1
140°-150°	2.2	0.0
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5025.0	98.7
0°-180°	5092.6	100.0

Coefficient of Utilization



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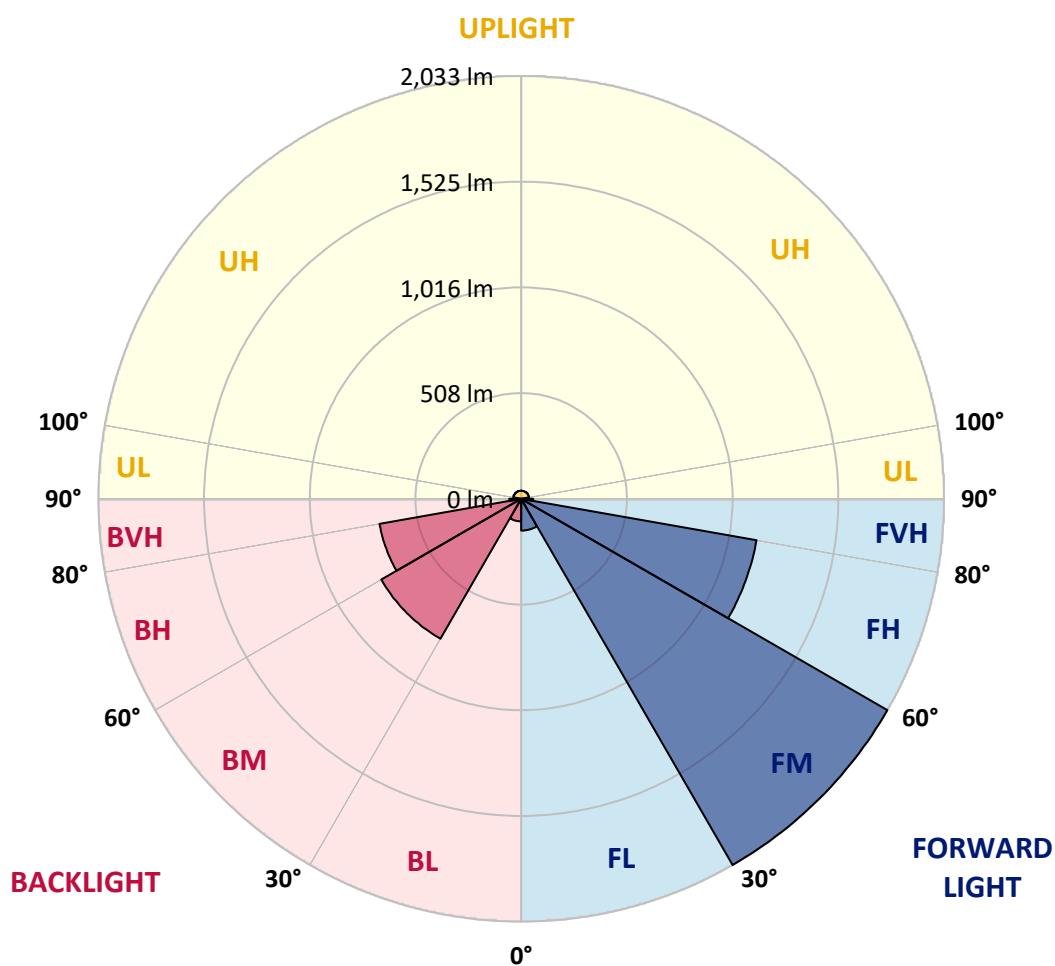
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.6	3.0			
FM	(30°-60°)	2032.7	39.9			
FH	(60°-80°)	1148.7	22.6			G1/1800
FVH	(80°-90°)	57.4	1.1			G1/100
BL	(0°-30°)	108.3	2.1	B0/110		
BM	(30°-60°)	776.7	15.3	B1/1000		
BH	(60°-80°)	691.6	13.6	B2/1000		G2/1000
BVH	(80°-90°)	57.0	1.1			G1/100
UL	(90°-100°)	30.2	0.6		U2/50	
UH	(100°-180°)	38.9	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°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	63.4	60.2	45.2	39.6	33.3	27.0	20.6	17.6	16.9	15.7	14.4
5°	63.4	63.4	65.2	69.0	76.5	69.6	73.3	26.3	25.1	16.9	13.7
7.5°	121.1	117.9	147.9	104.7	65.9	61.4	93.4	57.1	57.1	26.3	15.7
10°	163.7	163.1	200.1	128.0	117.9	142.9	63.4	65.2	65.2	45.2	22.0
12.5°	160.5	159.3	161.8	176.2	147.9	125.4	127.3	83.4	104.2	164.3	168.7
15°	225.7	237.6	225.1	172.4	158.0	157.4	203.1	154.3	156.8	180.6	132.3
17.5°	301.0	302.2	329.2	279.6	220.0	232.6	215.0	215.7	190.6	200.1	223.9
20°	327.9	322.4	337.3	312.9	312.9	278.4	219.4	311.0	334.3	314.1	310.4
22.5°	563.0	560.5	490.3	343.0	354.9	325.4	332.2	362.4	340.5	319.8	314.1
25°	642.0	633.9	609.4	585.0	435.2	456.4	402.5	393.8	418.3	504.8	546.1
27.5°	854.0	863.3	737.4	658.3	586.8	490.9	460.2	565.5	524.8	552.5	546.1
30°	1074.7	1069.6	1025.2	880.3	737.4	609.4	610.6	593.8	566.2	650.8	739.2
32.5°	1393.2	1409.5	1205.6	1054.1	921.7	741.8	672.2	789.4	784.4	759.9	793.1
35°	1736.7	1734.3	1567.5	1317.3	996.9	838.9	803.2	872.8	855.8	818.3	879.6
37.5°	1954.9	1930.5	1817.0	1602.0	1218.9	956.1	968.7	1019.5	1002.6	953.1	1066.5
40°	2271.0	2243.9	2108.6	1816.4	1519.8	1158.7	1229.5	1188.2	1133.0	1124.2	1138.6
42.5°	2387.0	2388.2	2255.8	2043.3	1781.3	1448.3	1485.4	1303.5	1247.7	1341.1	1309.8
45°	2423.4	2418.4	2326.1	2166.8	1951.2	1794.5	1676.6	1513.6	1457.1	1542.4	1576.3
47.5°	2343.7	2323.6	2338.7	2160.6	2130.5	1945.6	1921.1	1805.7	1818.3	1770.0	1849.6
50°	2129.9	2100.4	2140.0	2093.5	2222.0	2109.2	2393.9	1956.9	1950.0	2037.1	2136.1
52.5°	1798.2	1776.2	1904.2	1865.9	2202.0	2287.9	2488.0	2392.0	2398.2	2406.4	2352.5
55°	1473.5	1484.8	1582.5	1560.0	1911.7	2326.7	2802.1	2748.8	2785.1	2583.2	2583.9
57.5°	1052.0	1077.2	1253.3	1266.6	1593.2	2046.5	3054.2	2968.8	3062.2	2873.5	2915.5
60°	724.8	739.9	835.2	968.0	1195.7	1699.2	2919.9	3345.0	3429.6	3168.8	3166.9
62°	562.3	568.7	583.1	753.1	917.9	1221.4	2890.5	3439.7	3559.4	3321.8	3270.3
62.5°	521.6	528.6	538.0	683.4	846.4	1110.4	2780.1	3460.3	3545.7	3341.2	3287.9
65°	417.6	420.7	399.4	454.5	598.2	663.3	1997.6	3363.2	3417.7	3317.4	3237.2
67.5°	386.9	375.6	346.2	331.0	447.6	427.6	1087.2	2866.6	3007.7	3175.1	3091.7
70°	320.3	345.5	321.7	296.0	357.4	328.6	461.5	2319.9	2359.4	2906.8	2895.5
72.5°	245.2	263.4	282.1	279.0	275.3	264.6	306.6	1449.7	1565.5	2385.6	2681.0
75°	198.8	206.3	245.9	237.6	244.5	209.4	241.4	689.1	833.8	1688.5	2331.8
77.5°	159.8	164.9	191.2	184.3	202.5	163.7	192.6	312.3	353.7	970.6	1597.0
80°	106.0	108.5	139.2	137.8	147.9	144.9	145.5	218.8	221.4	454.0	835.9
82.5°	79.0	77.8	95.9	96.5	95.9	104.7	99.7	149.9	156.1	222.6	277.7
85°	51.5	49.5	57.1	60.8	58.4	57.7	75.3	105.3	109.7	158.7	165.5
87.5°	28.2	30.0	37.5	37.5	39.6	38.9	61.4	70.3	73.3	106.0	89.0
90°	18.8	18.8	20.6	20.1	21.3	20.6	32.0	41.4	41.9	53.3	47.6
92.5°	16.9	18.1	20.6	20.6	22.6	19.4	28.9	35.1	35.7	43.2	36.4
95°	15.1	15.7	17.6	18.1	19.4	13.7	22.0	28.9	29.5	35.7	29.5
97.5°	12.6	13.7	15.1	15.7	17.6	12.6	18.1	23.2	23.8	27.6	22.6
100°	12.6	13.2	13.2	13.2	15.1	10.7	15.7	20.1	20.6	22.6	18.8
102.5°	11.9	12.6	11.9	11.3	12.6	9.4	13.7	16.9	16.9	16.3	15.7
105°	11.9	11.9	10.1	8.7	10.7	8.7	11.9	12.6	12.6	12.6	14.4
107.5°	11.3	11.3	9.4	8.2	8.7	7.5	10.1	10.7	10.7	11.3	13.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	10.7	10.1	8.2	6.9	6.9	6.9	8.2	8.7	8.7	10.1	14.4
112.5°	9.4	9.4	6.9	6.2	6.2	6.2	7.5	8.2	8.2	9.4	13.7
115°	8.7	8.7	6.9	5.7	5.7	5.7	6.9	7.5	7.5	8.7	13.7
117.5°	9.4	8.7	6.2	5.7	5.0	5.0	5.7	6.9	6.9	8.7	13.7
120°	8.2	8.2	6.2	5.0	4.4	5.0	5.7	6.2	6.9	9.4	13.7
122.5°	8.7	8.2	6.2	4.4	4.4	4.4	5.0	6.2	6.2	8.7	12.6
125°	8.2	7.5	5.7	4.4	3.8	4.4	5.0	5.7	6.2	8.7	12.6
127.5°	8.2	7.5	5.7	4.4	3.8	3.8	5.0	5.7	5.7	8.2	11.9
130°	7.5	7.5	5.0	3.8	3.8	3.8	4.4	5.0	5.0	7.5	10.7
132.5°	6.9	6.2	5.0	3.8	3.2	3.8	4.4	4.4	4.4	6.9	10.1
135°	6.2	6.2	5.0	3.8	3.2	3.2	3.8	4.4	4.4	6.2	8.7
137.5°	5.7	5.7	5.0	3.8	3.2	3.2	3.2	3.8	3.8	5.7	7.5
140°	5.7	5.7	5.0	3.8	3.2	3.2	3.2	3.2	3.2	4.4	6.2
142.5°	5.7	5.7	5.0	3.8	3.2	2.5	2.5	2.5	2.5	3.8	5.0
145°	5.0	5.0	4.4	3.8	2.5	1.8	1.8	2.5	2.5	3.2	3.8
147.5°	5.0	5.0	4.4	3.2	1.8	1.2	1.2	1.8	1.8	2.5	3.2
150°	3.8	3.8	3.8	2.5	1.2	0.0	1.2	1.2	1.2	2.5	2.5
152.5°	2.5	2.5	1.8	1.2	0.6	0.6	0.6	1.2	1.2	1.2	1.8
155°	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.6	0.6	1.2	1.2
157.5°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6
160°	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6
162.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6
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°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	14.4	13.7	13.7	13.7	14.4	14.4	14.4	13.7	13.2	13.2	13.2
5°	13.2	12.6	12.6	12.6	13.2	13.2	13.2	13.2	13.2	13.2	13.2
7.5°	14.4	13.2	13.2	12.6	12.6	13.2	14.4	21.3	37.0	52.0	60.8
10°	20.1	20.1	17.6	16.3	16.3	23.8	88.4	95.9	95.9	90.9	87.7
12.5°	181.8	143.5	126.6	44.5	36.4	74.0	84.6	79.6	110.4	128.5	136.0
15°	131.6	144.2	155.4	139.9	188.7	79.0	128.0	155.4	209.4	212.0	213.8
17.5°	221.4	238.8	172.4	150.4	176.2	233.9	191.2	198.1	198.1	198.1	198.8
20°	311.6	317.3	331.0	316.7	176.8	246.4	245.2	199.4	224.4	279.6	295.3
22.5°	331.0	342.3	326.0	316.0	373.6	230.1	253.3	317.3	321.0	305.9	313.5
25°	561.8	545.5	479.0	337.3	373.0	321.7	327.3	297.1	305.4	296.5	302.2
27.5°	557.4	548.6	495.3	486.5	391.9	380.6	304.1	343.0	364.3	378.0	375.6
30°	778.7	727.3	573.7	502.3	462.7	364.3	334.3	324.8	322.4	338.6	339.8
32.5°	782.6	774.9	660.8	649.5	476.0	368.6	315.3	296.5	338.6	361.1	357.4
35°	907.8	869.0	755.5	701.0	546.8	346.7	281.6	296.5	303.4	319.8	319.1
37.5°	1020.2	1008.3	915.4	774.3	526.6	316.0	317.8	316.0	307.9	310.4	310.4
40°	1169.3	1103.5	1020.7	842.7	492.9	338.6	343.0	298.5	290.3	285.9	285.9
42.5°	1346.7	1235.1	1158.7	875.9	468.4	398.8	324.8	291.5	283.4	270.9	269.0
45°	1556.2	1417.6	1302.9	886.5	393.2	413.2	337.3	331.7	304.8	293.5	289.0
47.5°	1740.0	1628.3	1469.0	904.1	455.8	394.4	443.9	376.8	294.0	310.4	307.9
50°	2015.8	1872.1	1585.7	859.7	487.2	383.1	461.5	329.8	302.8	324.8	323.5
52.5°	2259.7	2123.0	1707.9	792.5	460.8	529.8	409.4	378.0	351.2	339.8	338.6
55°	2514.8	2378.1	1790.6	758.7	455.2	423.8	425.7	409.4	317.3	341.8	341.1
57.5°	2808.3	2733.0	1970.6	744.3	466.4	374.3	425.7	342.3	361.7	341.8	345.5
60°	2965.1	2965.1	2075.4	729.9	430.7	384.4	365.6	376.2	314.1	317.8	327.9
62°	3096.7	3131.8	2171.3	691.6	429.5	322.4	359.3	332.2	307.2	326.0	338.6
62.5°	3141.2	3168.2	2200.2	684.1	440.1	305.4	332.9	331.7	318.5	321.0	332.2
65°	3184.5	3309.3	2269.1	636.4	405.1	288.5	284.6	314.7	275.9	264.0	264.6
67.5°	3143.1	3314.9	2246.0	512.2	328.6	247.7	251.4	262.7	248.9	244.5	247.0
70°	2991.9	3061.6	2009.5	422.7	283.4	226.9	241.4	231.9	228.3	227.6	226.9
72.5°	2785.1	2652.9	1578.1	317.8	243.8	196.8	206.9	213.8	215.0	212.0	208.1
75°	2349.3	2083.5	1029.6	238.3	195.0	166.7	188.7	194.4	199.4	190.6	187.5
77.5°	1612.6	1313.6	532.9	189.3	168.7	139.9	165.5	174.3	179.3	166.2	168.0
80°	748.7	599.4	246.4	154.8	139.9	116.1	140.4	151.8	158.7	141.1	134.8
82.5°	252.7	230.7	148.6	119.7	114.7	88.4	113.5	126.6	128.5	117.2	99.7
85°	150.4	151.1	104.2	92.3	84.6	55.1	81.5	99.7	99.7	82.7	67.7
87.5°	86.6	97.1	79.6	70.3	63.4	37.5	60.8	68.4	67.0	52.7	37.5
90°	43.2	50.8	47.0	46.4	47.6	23.8	47.6	51.5	51.5	36.4	23.2
92.5°	32.0	38.9	41.9	39.6	40.1	18.1	38.2	38.9	38.2	28.2	18.1
95°	27.0	33.9	41.9	39.6	38.2	15.1	35.1	35.7	36.4	27.6	20.1
97.5°	21.3	25.6	32.6	32.0	34.5	12.6	32.0	32.0	30.7	22.6	16.9
100°	19.4	22.6	27.6	27.6	30.0	11.3	28.2	25.6	24.5	18.1	15.7
102.5°	16.3	18.1	21.3	20.6	22.6	10.7	20.6	20.1	18.8	15.7	15.1
105°	15.7	16.3	16.3	15.1	15.7	10.1	14.4	13.7	13.2	13.2	13.7
107.5°	15.1	15.1	13.7	12.6	12.6	9.4	10.7	10.1	10.7	13.7	14.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	15.1	15.1	12.6	11.3	10.1	8.7	9.4	8.2	9.4	13.7	15.1
112.5°	15.1	15.1	11.3	9.4	9.4	8.2	8.2	7.5	8.7	13.7	15.1
115°	14.4	14.4	10.7	8.7	8.2	7.5	7.5	6.9	8.7	13.7	15.1
117.5°	14.4	14.4	10.7	8.7	7.5	6.9	6.9	6.2	8.7	14.4	15.1
120°	14.4	14.4	10.7	8.2	7.5	6.9	6.2	6.2	8.7	13.7	15.1
122.5°	13.7	13.2	10.1	7.5	6.9	6.2	6.2	6.2	8.7	14.4	15.1
125°	13.2	12.6	10.1	7.5	6.2	6.2	5.7	5.7	8.7	13.7	14.4
127.5°	12.6	12.6	9.4	6.9	6.2	5.7	5.7	5.7	8.7	14.4	14.4
130°	11.9	11.3	8.7	6.2	5.7	5.0	5.0	5.7	9.4	13.2	13.7
132.5°	10.7	10.1	8.2	5.7	5.0	5.0	5.0	5.0	8.7	13.2	13.2
135°	8.7	8.7	6.9	5.0	4.4	4.4	4.4	5.0	8.2	11.3	11.9
137.5°	8.2	7.5	6.2	5.0	3.8	4.4	4.4	5.0	8.2	10.7	11.3
140°	6.9	6.2	5.0	3.8	3.8	3.8	3.8	4.4	6.9	9.4	10.1
142.5°	5.0	5.0	4.4	3.2	3.2	3.2	3.2	4.4	6.2	8.2	8.2
145°	4.4	4.4	3.8	3.2	2.5	1.8	1.8	3.2	5.0	6.9	6.9
147.5°	3.2	3.2	3.2	2.5	1.8	1.8	1.8	2.5	3.8	5.0	5.0
150°	2.5	2.5	2.5	1.8	1.8	1.2	1.2	1.8	3.2	3.8	3.8
152.5°	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.8	2.5	2.5
155°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	1.2	1.2
157.5°	0.6	0.6	0.6	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.0
160°	0.6	0.6	0.6	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.6	1.2	1.2	0.6	0.6	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)