

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: P241014

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241014
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-AF24-70-D-U-T4W-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA 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: 6629.8 lumens
Efficiency: N/A
Efficacy: 89.6 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): 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

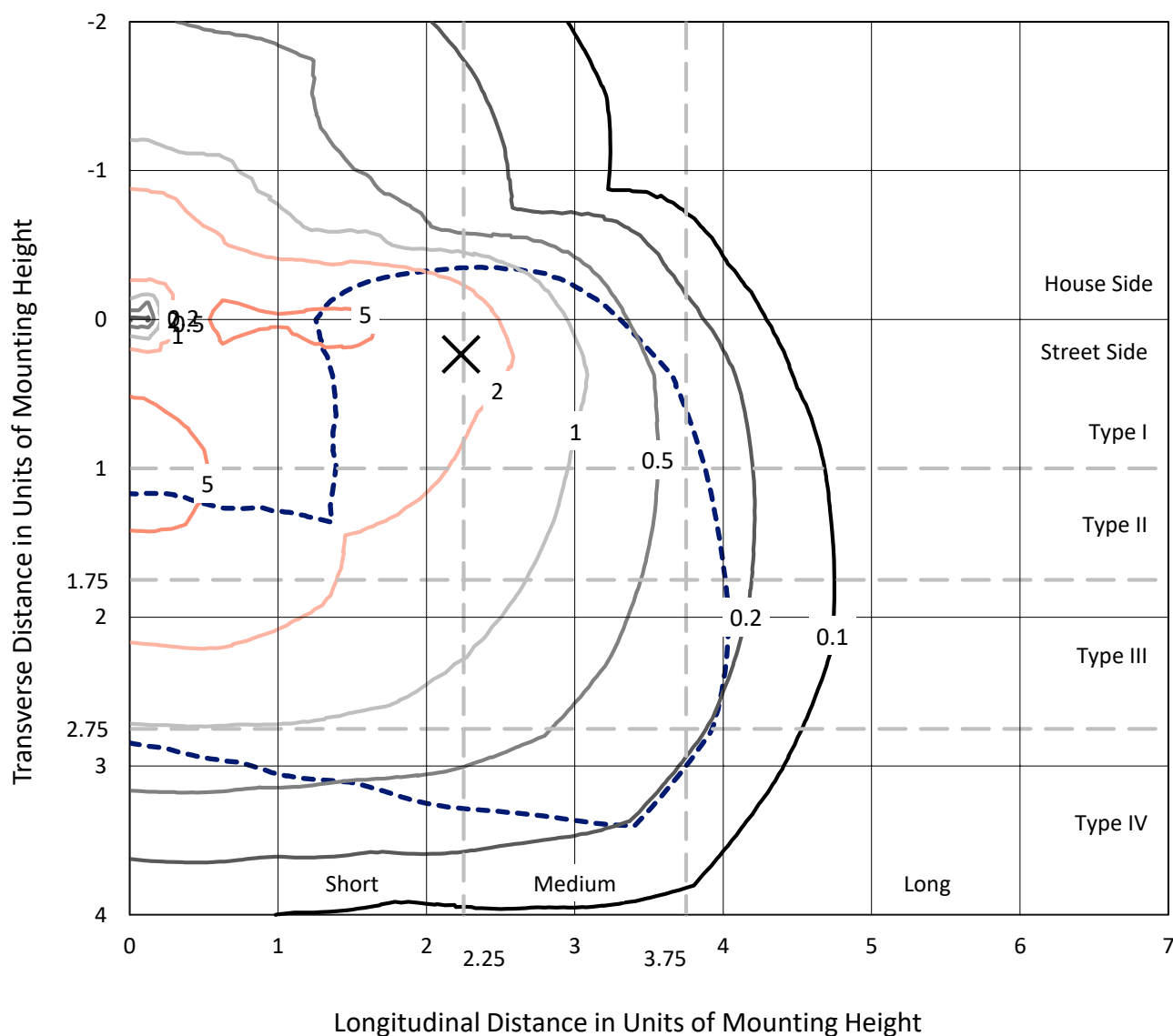


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

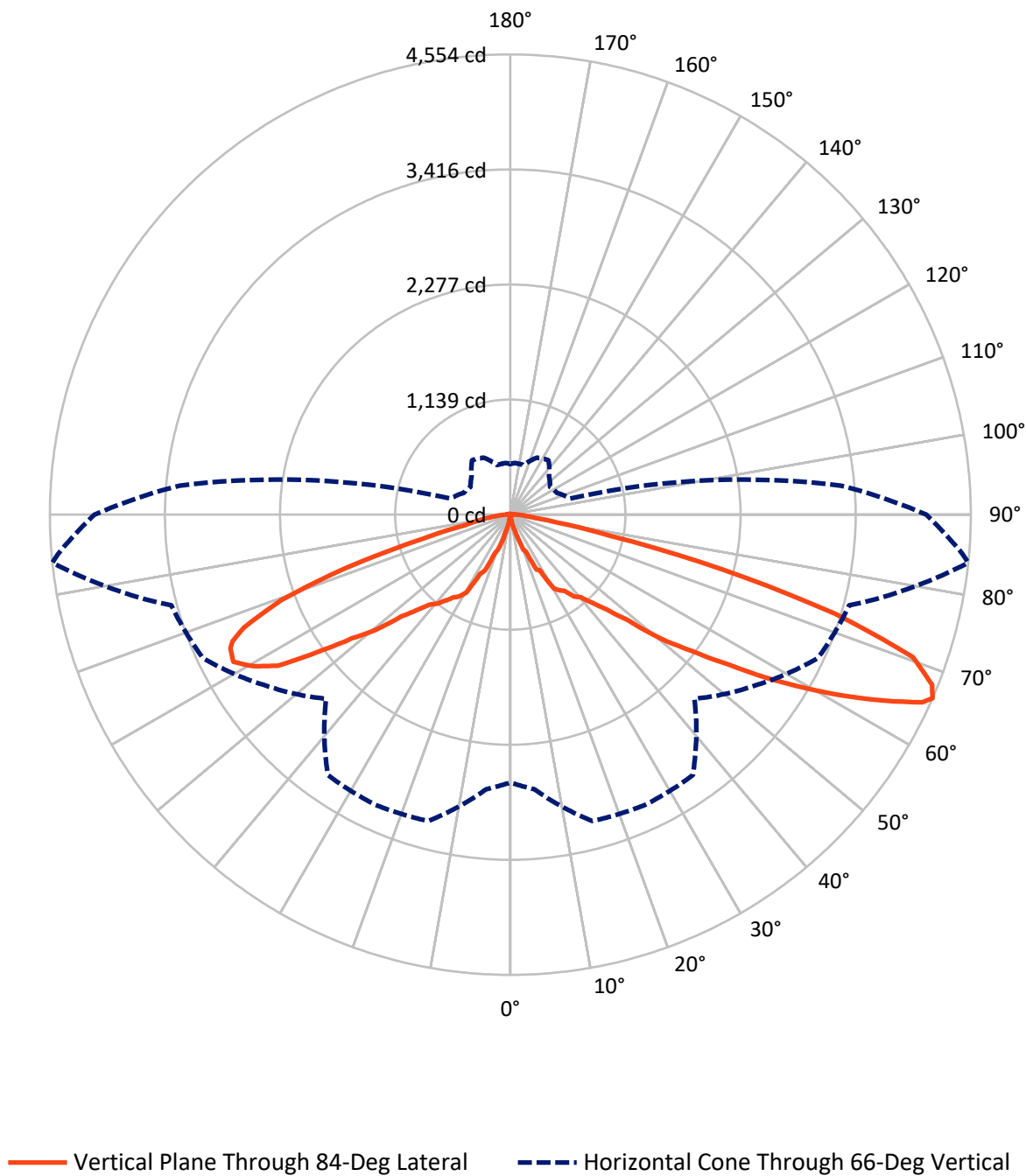


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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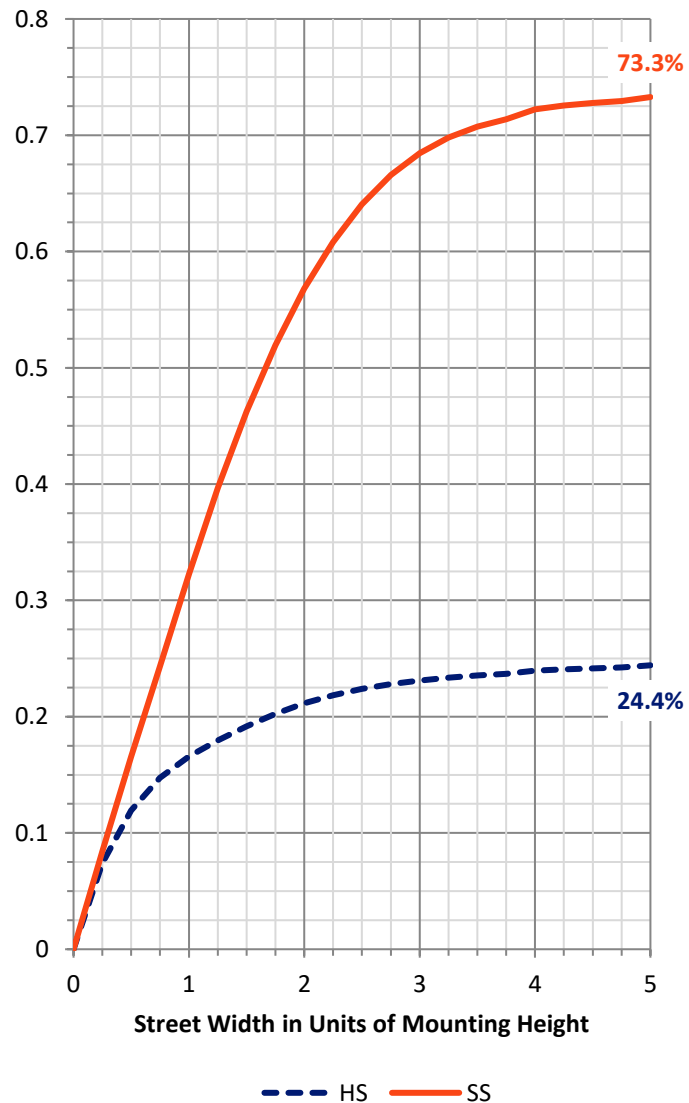
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1659.0	40.4	1699.4
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	4892.5	37.9	4930.4
	% Fixture	73.8	0.6	74.4
Total	Lumens	6551.5	78.3	6629.8
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	61.5	0.9
20°-30°	227.4	3.4
30°-40°	467.6	7.1
40°-50°	775.8	11.7
50°-60°	1352.7	20.4
60°-70°	1992.8	30.1
70°-80°	1454.3	21.9
80°-90°	214.5	3.2
90°-100°	40.0	0.6
100°-110°	18.3	0.3
110°-120°	8.6	0.1
120°-130°	6.0	0.1
130°-140°	3.6	0.1
140°-150°	1.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6551.5	98.8
0°-180°	6629.8	100.0

Coefficient of Utilization



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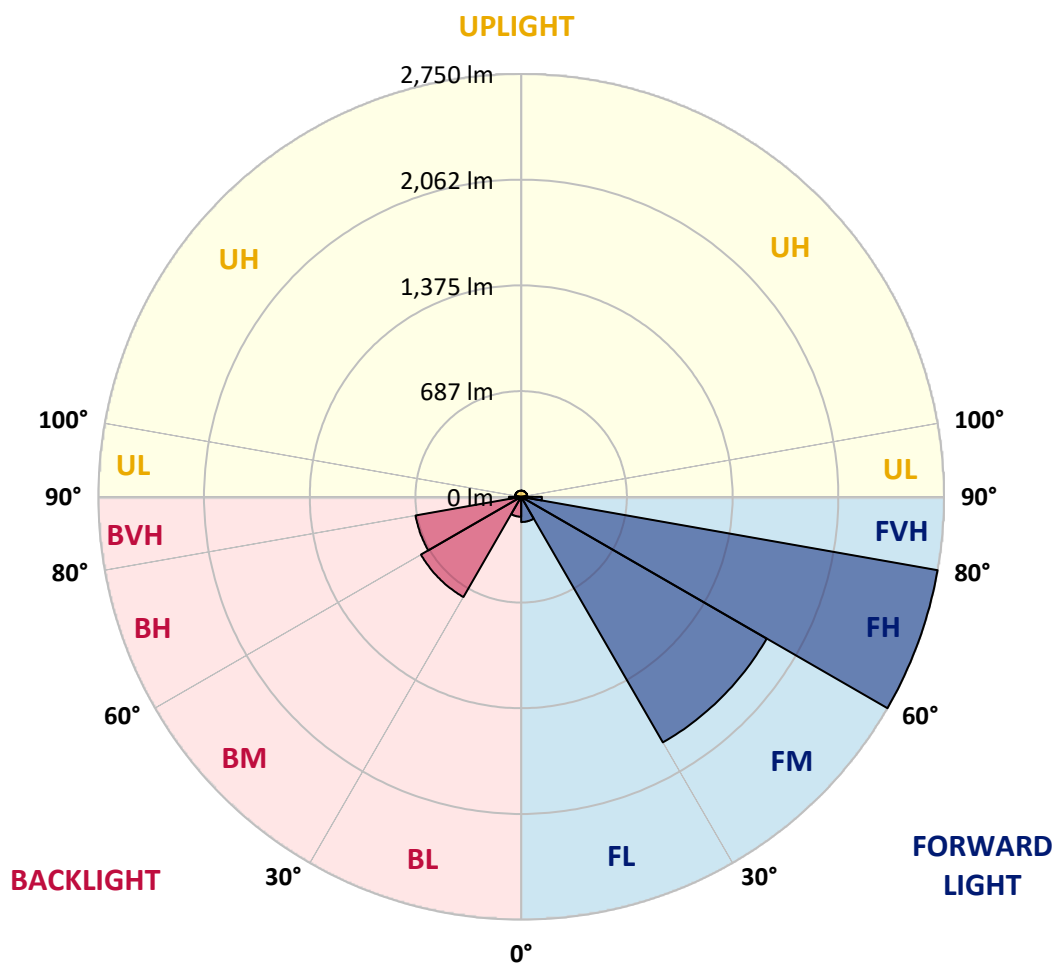
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.1	2.5			
FM	(30°-60°)	1843.9	27.8			
FH	(60°-80°)	2749.7	41.5			G2/5000
FVH	(80°-90°)	134.9	2.0			G2/225
BL	(0°-30°)	129.8	2.0	B1/500		
BM	(30°-60°)	752.2	11.3	B1/1000		
BH	(60°-80°)	697.4	10.5	B2/1000		G2/1000
BVH	(80°-90°)	79.6	1.2			G1/100
UL	(90°-100°)	40.0	0.6		U2/50	
UH	(100°-180°)	40.4	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°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	39.2	35.1	35.1	33.5	30.1	26.9	21.2	17.9	15.6	15.6	14.6
5°	75.1	79.1	91.3	84.0	69.3	90.5	40.8	26.9	17.2	14.6	14.6
7.5°	119.1	125.6	96.2	85.7	85.7	91.3	74.2	44.9	22.8	17.2	16.3
10°	249.5	235.7	163.9	166.4	141.1	98.7	67.7	59.5	35.1	27.8	25.2
12.5°	242.2	239.0	243.8	212.8	214.4	155.8	86.5	138.6	125.6	119.8	132.1
15°	312.4	309.1	247.9	252.8	229.2	238.1	200.6	199.8	193.3	162.2	155.8
17.5°	433.9	430.6	485.2	323.0	230.0	297.7	258.5	222.7	230.7	243.8	253.6
20°	433.1	428.2	451.0	387.5	392.2	307.4	275.7	405.4	370.3	371.9	350.7
22.5°	639.3	610.0	535.8	404.5	442.1	359.7	408.6	400.4	373.5	395.5	389.1
25°	620.7	632.1	606.8	598.6	450.1	515.4	449.4	462.3	570.9	600.3	601.0
27.5°	720.1	698.1	678.5	614.9	605.2	501.6	462.3	615.7	597.7	624.8	623.9
30°	858.8	851.4	846.5	683.4	654.9	553.0	623.1	628.8	725.8	848.2	873.5
32.5°	992.5	957.4	878.3	791.1	657.3	653.3	619.1	781.3	832.7	890.6	899.5
35°	1204.6	1203.8	1069.9	845.7	735.7	694.1	801.8	841.7	840.9	928.1	981.1
37.5°	1385.6	1394.5	1254.3	1021.1	760.9	701.3	836.8	907.7	911.0	1029.2	1008.9
40°	1661.3	1637.7	1512.0	1219.3	869.3	747.9	917.6	928.1	995.1	1074.1	1103.4
42.5°	1857.1	1848.1	1807.2	1450.9	995.1	833.5	1013.0	967.3	1053.7	1197.3	1228.3
45°	1979.3	1935.3	1975.3	1620.6	1196.4	1016.9	1034.1	1095.4	1187.4	1339.2	1426.4
47.5°	2102.5	2136.0	2042.2	1748.5	1377.5	1101.9	1137.7	1331.0	1420.0	1556.1	1611.6
50°	2316.2	2280.3	2247.7	1941.1	1656.4	1237.3	1423.2	1397.1	1646.6	1924.7	1934.6
52.5°	2446.8	2446.8	2393.7	2109.0	1848.8	1437.0	1518.6	1611.6	1983.5	2235.5	2326.7
55°	2631.8	2670.2	2660.4	2307.2	2075.6	1708.6	1768.2	1963.9	2291.7	2615.5	2841.4
57.5°	2763.1	2816.1	2931.1	2519.3	2295.9	1819.5	2132.7	2350.5	2706.1	3100.0	3373.2
60°	2958.0	2958.8	3077.2	2706.9	2573.9	2030.8	2273.8	2709.3	2933.6	3565.6	3710.0
62.5°	2977.7	3011.0	3258.9	2998.8	2851.2	2251.0	2735.5	2894.5	3189.8	4033.9	4160.3
65°	2741.1	2830.8	3246.0	3135.8	3104.8	2454.1	2870.8	3260.7	3397.6	4477.5	4441.6
66°	2650.6	2726.4	3138.3	3166.0	3146.4	2575.6	2949.9	3356.1	3470.3	4554.2	4491.3
67.5°	2618.8	2674.2	3009.4	3198.7	3287.5	2795.7	3143.2	3402.6	3603.2	4498.6	4473.4
70°	2397.8	2467.1	2781.8	3414.0	3588.5	3199.4	3392.0	3515.1	3697.0	4223.9	4114.6
72.5°	1828.5	1899.5	2131.8	2816.9	3613.7	3796.4	3777.7	3657.0	3392.0	3356.1	3180.7
75°	907.0	982.8	1146.6	1641.7	2812.2	3729.6	3755.7	3297.3	2741.1	2164.5	2029.9
77.5°	468.9	528.5	442.8	628.8	1446.0	2645.7	2658.0	2174.3	1588.7	1011.3	944.4
80°	319.7	332.8	301.8	310.0	595.4	1352.2	1260.9	1157.3	639.3	464.1	484.4
82.5°	234.9	217.0	207.9	225.9	321.3	422.5	453.4	500.7	341.8	235.7	248.8
85°	110.9	122.4	119.8	137.8	195.7	144.3	221.8	300.9	227.6	151.7	149.2
87.5°	69.3	68.5	73.4	84.7	118.2	95.4	121.5	149.2	137.0	94.6	93.0
90°	45.7	40.8	38.4	45.7	66.1	47.3	65.2	84.7	77.5	51.4	48.1
92.5°	31.0	31.0	33.5	38.4	57.2	50.6	46.4	48.1	48.1	40.0	38.4
95°	22.8	24.5	27.8	28.5	34.3	29.4	37.4	41.6	42.4	32.7	31.8
97.5°	19.5	21.2	22.8	23.6	28.5	23.6	31.0	36.7	35.8	26.1	26.9
100°	17.9	19.5	19.5	20.4	22.8	17.9	25.2	34.3	32.7	22.8	22.1
102.5°	17.2	17.2	16.3	16.3	17.9	13.8	21.2	30.1	24.5	18.8	17.2
105°	16.3	16.3	13.8	13.0	13.8	11.5	17.2	22.8	17.2	15.6	15.6
107.5°	15.6	14.6	12.2	10.6	11.5	9.0	13.8	14.6	12.2	13.8	14.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	13.8	13.8	10.6	9.0	9.0	7.3	9.9	10.6	10.6	13.8	14.6
112.5°	13.0	12.2	9.0	7.3	7.3	6.5	7.3	8.2	9.0	13.0	13.8
115°	12.2	11.5	8.2	6.5	5.7	4.9	5.7	6.5	8.2	13.0	13.0
117.5°	11.5	10.6	7.3	5.7	4.9	4.1	4.9	5.7	8.2	13.0	13.0
120°	11.5	10.6	7.3	4.9	4.1	4.1	4.1	4.9	9.0	13.0	13.8
122.5°	10.6	10.6	7.3	4.9	4.1	3.3	3.3	4.9	8.2	12.2	12.2
125°	10.6	10.6	6.5	4.1	3.3	3.3	3.3	4.1	8.2	11.5	12.2
127.5°	9.9	9.9	6.5	4.1	3.3	2.4	2.4	4.1	7.3	11.5	11.5
130°	9.9	9.9	6.5	3.3	2.4	2.4	2.4	3.3	7.3	10.6	10.6
132.5°	8.2	8.2	5.7	3.3	2.4	1.6	2.4	3.3	6.5	9.0	9.9
135°	8.2	8.2	5.7	3.3	2.4	1.6	1.6	3.3	5.7	8.2	8.2
137.5°	7.3	7.3	4.9	3.3	2.4	1.6	1.6	2.4	4.9	7.3	7.3
140°	6.5	6.5	5.7	3.3	2.4	1.6	1.6	1.6	4.1	5.7	5.7
142.5°	6.5	6.5	4.9	3.3	1.6	0.8	0.8	1.6	3.3	4.1	4.1
145°	5.7	5.7	4.9	3.3	1.6	0.8	0.8	1.6	2.4	3.3	3.3
147.5°	5.7	5.7	4.9	2.4	0.8	0.8	0.8	1.6	2.4	3.3	3.3
150°	4.9	4.9	3.3	1.6	0.0	0.0	0.8	0.8	1.6	2.4	2.4
152.5°	3.3	3.3	2.4	0.8	0.0	0.0	0.0	0.8	1.6	1.6	1.6
155°	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	14.6	14.6	14.6	14.6	14.6	14.6	13.8	13.8	13.8	13.8	13.8
5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	14.6	15.6	15.6	15.6
7.5°	15.6	15.6	14.6	13.8	14.6	16.3	24.5	56.3	82.4	101.2	100.3
10°	25.2	25.2	23.6	20.4	25.2	55.5	109.3	110.2	91.3	84.0	87.3
12.5°	133.8	119.1	101.2	83.1	81.5	98.7	93.0	129.7	145.2	155.8	154.2
15°	153.3	162.2	148.5	166.4	170.5	101.2	158.2	212.1	228.4	234.9	242.2
17.5°	252.8	279.7	199.8	189.2	190.0	202.2	213.7	224.3	229.2	226.7	227.6
20°	380.9	363.0	389.8	332.8	254.5	270.8	247.9	244.6	323.0	392.2	383.3
22.5°	389.1	420.0	384.1	351.5	389.1	275.7	341.8	363.0	373.5	382.5	393.9
25°	629.7	614.9	538.3	403.7	384.1	367.7	371.1	379.2	399.7	430.6	449.4
27.5°	668.7	665.5	595.4	544.0	409.4	460.0	380.9	458.4	495.1	527.7	534.2
30°	899.5	908.5	685.0	522.8	474.6	393.9	442.1	472.2	500.7	546.4	547.3
32.5°	955.8	974.6	757.7	578.2	497.4	407.7	444.4	467.3	575.8	618.2	619.8
35°	970.6	1018.7	781.3	557.9	480.4	406.1	410.3	488.5	542.4	628.8	659.8
37.5°	1124.8	1089.7	830.3	565.2	449.4	390.7	442.8	468.9	553.7	609.2	619.8
40°	1190.0	1170.3	862.0	579.8	443.7	434.8	410.3	437.1	477.1	517.2	517.2
42.5°	1311.4	1234.7	880.0	569.2	431.5	466.5	374.3	404.5	442.1	418.4	428.2
45°	1473.0	1370.1	941.2	513.0	408.6	396.4	359.7	406.1	382.5	382.5	377.6
47.5°	1681.7	1541.4	920.7	493.5	460.0	375.2	474.6	381.7	352.4	365.4	366.2
50°	2012.0	1845.6	983.6	480.4	436.4	367.7	406.1	368.6	368.6	377.6	374.3
52.5°	2426.3	2098.5	1010.5	479.5	412.7	428.2	402.8	441.2	381.7	413.5	409.4
55°	2874.8	2479.3	1038.2	473.0	408.6	386.6	492.6	422.5	396.4	454.3	455.9
57.5°	3443.3	2920.5	1152.3	460.0	410.3	387.5	464.9	473.0	482.8	521.1	526.8
60°	3797.3	3165.2	1051.3	484.4	406.1	442.1	540.8	528.5	498.3	640.3	661.4
62.5°	4067.2	3350.3	866.1	504.9	480.4	445.3	558.7	616.6	588.8	645.9	662.2
65°	4116.2	3334.0	662.2	504.9	473.8	518.7	670.5	614.9	524.5	530.1	523.6
66°	4112.9	3284.4	610.0	508.9	480.4	540.8	658.2	622.2	507.3	513.0	500.7
67.5°	3978.3	3126.9	530.1	503.2	526.1	555.4	646.7	580.7	487.8	489.4	477.1
70°	3460.5	2637.5	451.0	517.2	545.6	557.0	707.1	540.8	447.8	436.4	433.9
72.5°	2545.4	1870.9	422.5	514.6	553.7	540.0	596.2	444.4	386.6	363.8	361.3
75°	1431.3	955.8	420.8	493.5	490.1	463.3	451.0	342.5	319.7	292.9	287.9
77.5°	659.8	460.7	356.4	397.1	370.3	366.2	336.0	285.5	272.4	254.5	247.2
80°	381.7	325.4	253.6	263.5	265.8	258.5	271.6	256.9	243.0	230.0	217.8
82.5°	222.7	206.4	185.0	173.7	173.7	186.0	223.4	213.7	203.1	191.6	164.8
85°	139.5	133.8	126.4	121.5	121.5	111.8	160.7	178.6	168.8	144.3	128.8
87.5°	91.3	95.4	84.7	85.7	83.1	74.2	108.5	119.8	102.8	82.4	68.5
90°	41.6	45.7	49.7	48.9	53.0	40.8	59.5	61.1	54.6	37.4	26.9
92.5°	31.8	37.4	41.6	41.6	45.7	27.8	43.2	48.1	44.9	35.1	25.2
95°	26.9	33.5	40.0	39.2	39.2	22.1	40.0	44.9	42.4	30.1	22.1
97.5°	22.1	26.9	32.7	32.7	35.8	18.8	36.7	43.2	40.8	30.1	21.2
100°	20.4	24.5	28.5	29.4	32.7	14.6	33.5	40.8	36.7	25.2	20.4
102.5°	18.8	20.4	23.6	23.6	24.5	13.0	26.9	33.5	29.4	19.5	19.5
105°	17.2	17.2	17.2	15.6	15.6	10.6	16.3	22.8	17.9	15.6	17.2
107.5°	16.3	15.6	13.0	12.2	11.5	9.0	11.5	13.8	10.6	13.8	15.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	15.6	15.6	12.2	10.6	9.9	8.2	9.9	9.0	9.0	13.8	14.6
112.5°	15.6	14.6	10.6	9.0	8.2	7.3	8.2	6.5	8.2	13.8	14.6
115°	14.6	14.6	9.9	8.2	8.2	6.5	6.5	5.7	7.3	13.0	14.6
117.5°	14.6	14.6	9.9	7.3	6.5	5.7	5.7	5.7	7.3	13.0	14.6
120°	14.6	13.8	9.9	7.3	5.7	4.9	4.9	4.9	7.3	13.0	13.8
122.5°	13.8	13.0	9.0	6.5	5.7	4.9	4.1	4.9	7.3	12.2	13.0
125°	13.0	13.0	9.0	5.7	4.9	4.1	3.3	4.1	7.3	12.2	13.0
127.5°	13.0	12.2	8.2	4.9	4.1	4.1	3.3	4.1	7.3	11.5	12.2
130°	11.5	11.5	7.3	4.9	3.3	3.3	2.4	3.3	7.3	11.5	11.5
132.5°	10.6	9.9	6.5	4.1	3.3	2.4	2.4	2.4	6.5	9.9	10.6
135°	9.0	8.2	5.7	3.3	2.4	2.4	1.6	2.4	5.7	9.0	9.0
137.5°	7.3	7.3	5.7	3.3	2.4	1.6	1.6	2.4	5.7	8.2	9.0
140°	6.5	5.7	4.1	2.4	1.6	1.6	1.6	2.4	4.9	6.5	7.3
142.5°	4.9	4.9	3.3	2.4	1.6	1.6	0.8	1.6	4.1	5.7	5.7
145°	4.1	4.1	3.3	1.6	1.6	0.8	0.8	0.8	3.3	4.1	4.9
147.5°	3.3	3.3	2.4	1.6	0.8	0.8	0.0	0.8	2.4	3.3	3.3
150°	2.4	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.8	1.6	1.6
152.5°	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	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)