

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: P266456

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266456
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 5955.6 lumens
Efficiency: N/A
Efficacy: 80.5 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

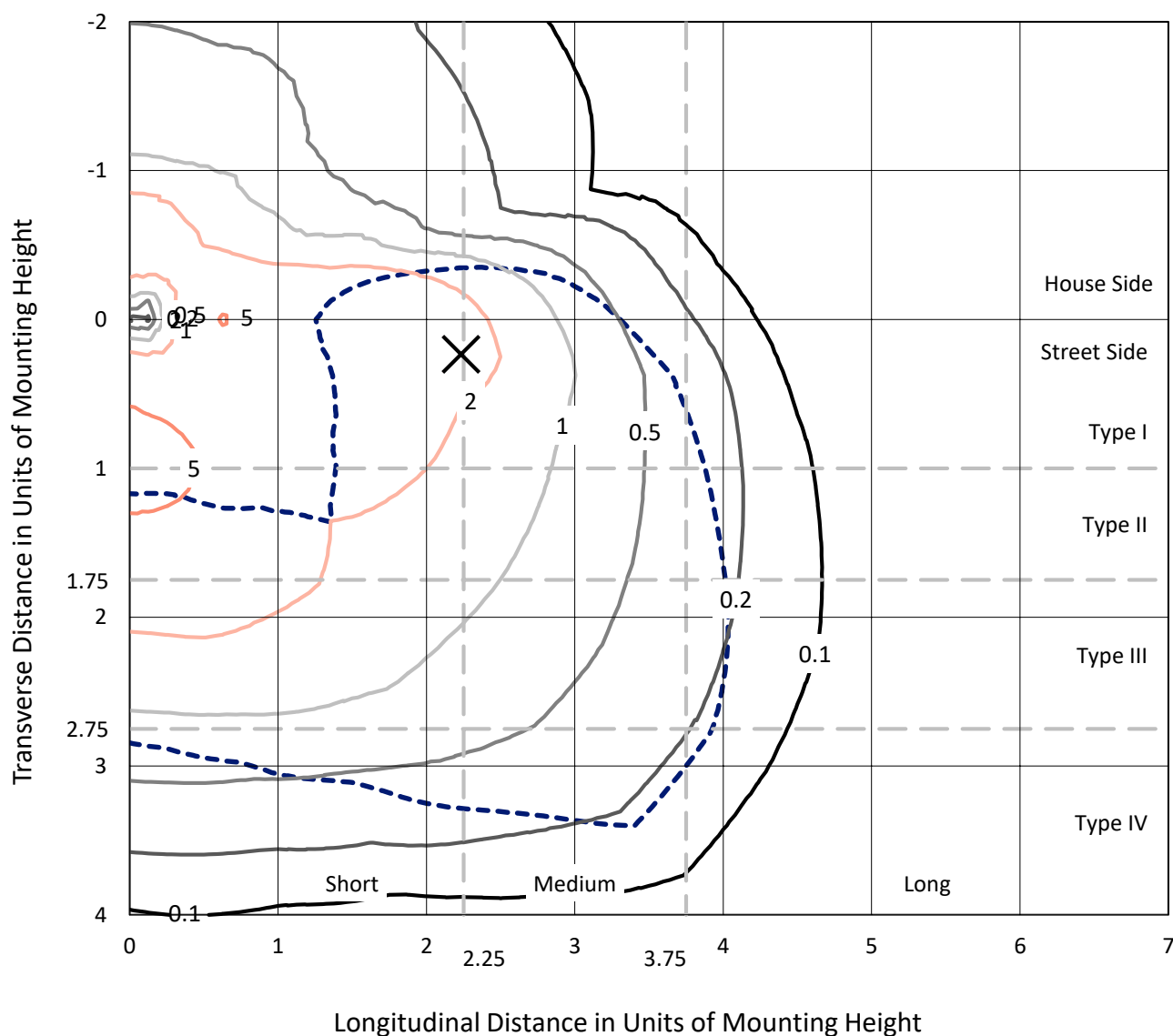


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

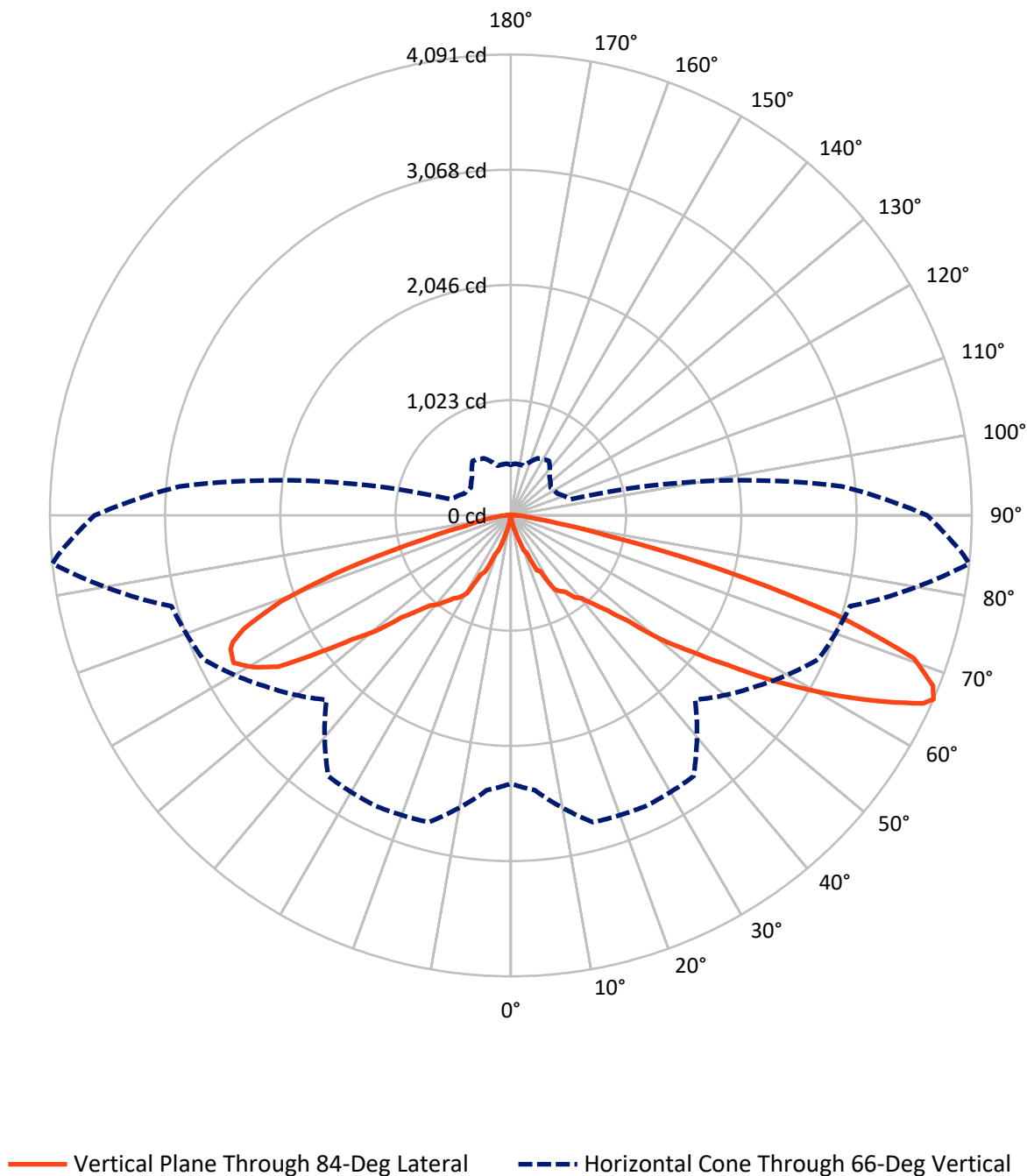


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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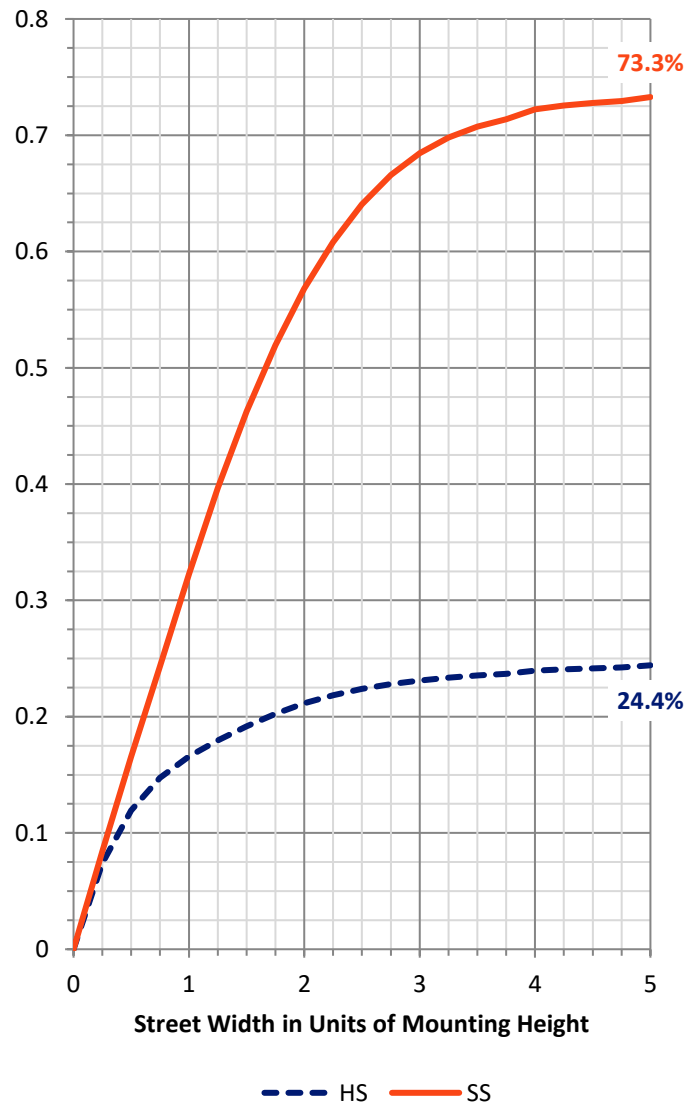
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1490.3	36.3	1526.6
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	4395.0	34.1	4429.1
	% Fixture	73.8	0.6	74.4
Total	Lumens	5885.3	70.4	5955.6
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	55.3	0.9
20°-30°	204.3	3.4
30°-40°	420.1	7.1
40°-50°	696.9	11.7
50°-60°	1215.2	20.4
60°-70°	1790.1	30.1
70°-80°	1306.4	21.9
80°-90°	192.7	3.2
90°-100°	35.9	0.6
100°-110°	16.4	0.3
110°-120°	7.8	0.1
120°-130°	5.4	0.1
130°-140°	3.2	0.1
140°-150°	1.4	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5885.3	98.8
0°-180°	5955.6	100.0

Coefficient of Utilization



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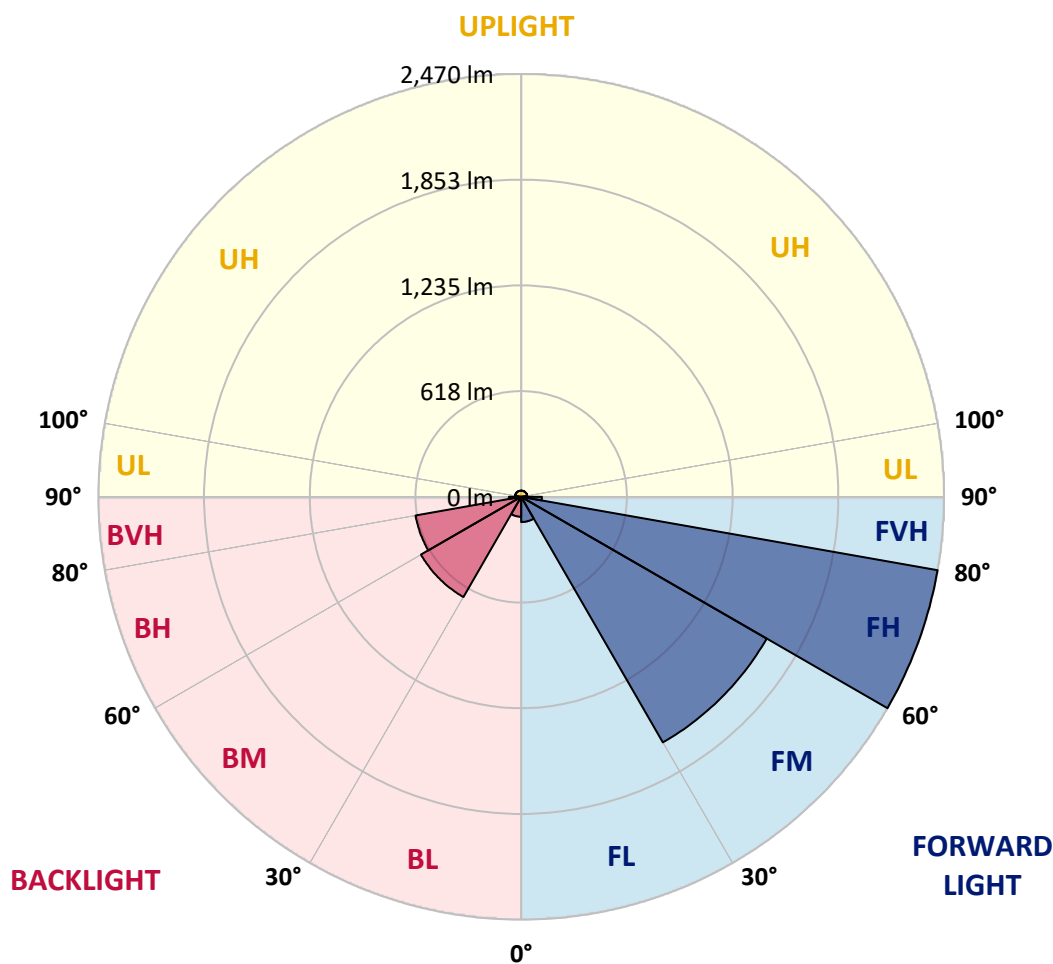
CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.4	2.5			
FM	(30°-60°)	1656.4	27.8			
FH	(60°-80°)	2470.0	41.5			G2/5000
FVH	(80°-90°)	121.2	2.0			G2/225
BL	(0°-30°)	116.6	2.0	B1/500		
BM	(30°-60°)	675.7	11.3	B1/1000		
BH	(60°-80°)	626.5	10.5	B2/1000		G2/1000
BVH	(80°-90°)	71.5	1.2			G1/100
UL	(90°-100°)	35.9	0.6		U2/50	
UH	(100°-180°)	36.3	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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	35.2	31.5	31.5	30.1	27.0	24.2	19.0	16.1	14.0	14.0	13.1
5°	67.5	71.1	82.0	75.5	62.3	81.3	36.7	24.2	15.5	13.1	13.1
7.5°	107.0	112.8	86.4	77.0	77.0	82.0	66.7	40.3	20.5	15.5	14.6
10°	224.1	211.7	147.2	149.5	126.8	88.7	60.8	53.4	31.5	25.0	22.6
12.5°	217.6	214.7	219.0	191.2	192.6	140.0	77.7	124.5	112.8	107.6	118.7
15°	280.6	277.7	222.7	227.1	205.9	213.9	180.2	179.5	173.6	145.7	140.0
17.5°	389.8	386.8	435.9	290.2	206.6	267.4	232.2	200.1	207.2	219.0	227.8
20°	389.1	384.7	405.1	348.1	352.3	276.1	247.7	364.2	332.6	334.1	315.0
22.5°	574.3	548.0	481.3	363.4	397.1	323.1	367.0	359.7	335.5	355.3	349.5
25°	557.6	567.8	545.1	537.7	404.3	463.0	403.7	415.3	512.8	539.3	539.9
27.5°	646.9	627.1	609.5	552.4	543.7	450.6	415.3	553.1	536.9	561.3	560.5
30°	771.5	764.8	760.4	613.9	588.3	496.8	559.7	564.9	652.0	761.9	784.7
32.5°	891.6	860.0	789.0	710.6	590.5	586.9	556.1	701.8	748.0	800.0	808.0
35°	1082.1	1081.4	961.1	759.7	660.9	623.5	720.3	756.1	755.4	833.7	881.3
37.5°	1244.7	1252.7	1126.7	917.3	683.5	630.0	751.7	815.4	818.4	924.5	906.3
40°	1492.4	1471.2	1358.2	1095.3	780.9	671.8	824.3	833.7	893.9	964.9	991.2
42.5°	1668.2	1660.2	1623.4	1303.4	893.9	748.7	910.0	868.9	946.5	1075.5	1103.4
45°	1778.0	1738.5	1774.4	1455.8	1074.7	913.5	928.9	984.0	1066.6	1203.0	1281.3
47.5°	1888.7	1918.8	1834.5	1570.7	1237.4	989.8	1022.0	1195.6	1275.6	1397.9	1447.7
50°	2080.7	2048.4	2019.1	1743.7	1488.0	1111.5	1278.5	1255.0	1479.1	1729.0	1737.9
52.5°	2198.0	2198.0	2150.3	1894.5	1660.8	1290.9	1364.2	1447.7	1781.8	2008.2	2090.1
55°	2364.2	2398.7	2389.9	2072.6	1864.5	1534.8	1588.4	1764.2	2058.6	2349.5	2552.4
57.5°	2482.1	2529.7	2633.0	2263.1	2062.4	1634.5	1915.8	2111.5	2430.9	2784.7	3030.2
60°	2657.2	2657.9	2764.3	2431.6	2312.1	1824.3	2042.6	2433.8	2635.3	3203.0	3332.7
62.5°	2674.9	2704.8	2927.5	2693.8	2561.2	2022.1	2457.3	2600.1	2865.4	3623.7	3737.2
65°	2462.3	2542.9	2915.9	2816.9	2789.1	2204.5	2578.9	2929.1	3052.1	4022.2	3989.9
66°	2381.0	2449.1	2819.2	2844.0	2826.4	2313.7	2649.9	3014.8	3117.4	4091.1	4034.6
67.5°	2352.5	2402.2	2703.4	2873.4	2953.2	2511.4	2823.6	3056.6	3236.8	4041.1	4018.5
70°	2154.0	2216.2	2498.9	3066.8	3223.6	2874.0	3047.1	3157.6	3321.0	3794.4	3696.2
72.5°	1642.6	1706.3	1915.0	2530.4	3246.2	3410.3	3393.5	3285.1	3047.1	3014.8	2857.2
75°	814.8	882.9	1030.0	1474.7	2526.2	3350.3	3373.8	2962.0	2462.3	1944.4	1823.5
77.5°	421.2	474.8	397.8	564.9	1298.9	2376.6	2387.7	1953.2	1427.1	908.5	848.4
80°	287.2	299.0	271.1	278.5	534.9	1214.7	1132.7	1039.6	574.3	416.9	435.1
82.5°	211.0	194.9	186.8	202.9	288.6	379.5	407.3	449.8	307.0	211.7	223.5
85°	99.6	110.0	107.6	123.8	175.8	129.6	199.2	270.3	204.5	136.3	134.0
87.5°	62.3	61.5	65.9	76.1	106.2	85.7	109.1	134.0	123.1	85.0	83.5
90°	41.1	36.7	34.5	41.1	59.4	42.5	58.6	76.1	69.6	46.2	43.2
92.5°	27.8	27.8	30.1	34.5	51.4	45.5	41.7	43.2	43.2	35.9	34.5
95°	20.5	22.0	25.0	25.6	30.8	26.4	33.6	37.4	38.1	29.4	28.6
97.5°	17.5	19.0	20.5	21.2	25.6	21.2	27.8	33.0	32.2	23.4	24.2
100°	16.1	17.5	17.5	18.3	20.5	16.1	22.6	30.8	29.4	20.5	19.9
102.5°	15.5	15.5	14.6	14.6	16.1	12.4	19.0	27.0	22.0	16.9	15.5
105°	14.6	14.6	12.4	11.7	12.4	10.3	15.5	20.5	15.5	14.0	14.0
107.5°	14.0	13.1	11.0	9.5	10.3	8.1	12.4	13.1	11.0	12.4	13.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	12.4	12.4	9.5	8.1	8.1	6.6	8.9	9.5	9.5	12.4	13.1
112.5°	11.7	11.0	8.1	6.6	6.6	5.8	6.6	7.4	8.1	11.7	12.4
115°	11.0	10.3	7.4	5.8	5.1	4.4	5.1	5.8	7.4	11.7	11.7
117.5°	10.3	9.5	6.6	5.1	4.4	3.7	4.4	5.1	7.4	11.7	11.7
120°	10.3	9.5	6.6	4.4	3.7	3.7	3.7	4.4	8.1	11.7	12.4
122.5°	9.5	9.5	6.6	4.4	3.7	3.0	3.0	4.4	7.4	11.0	11.0
125°	9.5	9.5	5.8	3.7	3.0	3.0	3.0	3.7	7.4	10.3	11.0
127.5°	8.9	8.9	5.8	3.7	3.0	2.2	2.2	3.7	6.6	10.3	10.3
130°	8.9	8.9	5.8	3.0	2.2	2.2	2.2	3.0	6.6	9.5	9.5
132.5°	7.4	7.4	5.1	3.0	2.2	1.4	2.2	3.0	5.8	8.1	8.9
135°	7.4	7.4	5.1	3.0	2.2	1.4	1.4	3.0	5.1	7.4	7.4
137.5°	6.6	6.6	4.4	3.0	2.2	1.4	1.4	2.2	4.4	6.6	6.6
140°	5.8	5.8	5.1	3.0	2.2	1.4	1.4	1.4	3.7	5.1	5.1
142.5°	5.8	5.8	4.4	3.0	1.4	0.7	0.7	1.4	3.0	3.7	3.7
145°	5.1	5.1	4.4	3.0	1.4	0.7	0.7	1.4	2.2	3.0	3.0
147.5°	5.1	5.1	4.4	2.2	0.7	0.7	0.7	1.4	2.2	3.0	3.0
150°	4.4	4.4	3.0	1.4	0.0	0.0	0.7	0.7	1.4	2.2	2.2
152.5°	3.0	3.0	2.2	0.7	0.0	0.0	0.0	0.7	1.4	1.4	1.4
155°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	13.1	13.1	13.1	13.1	13.1	13.1	12.4	12.4	12.4	12.4	12.4
5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	13.1	14.0	14.0	14.0
7.5°	14.0	14.0	13.1	12.4	13.1	14.6	22.0	50.6	74.0	90.9	90.1
10°	22.6	22.6	21.2	18.3	22.6	49.9	98.2	99.0	82.0	75.5	78.4
12.5°	120.2	107.0	90.9	74.6	73.2	88.7	83.5	116.5	130.4	140.0	138.5
15°	137.7	145.7	133.4	149.5	153.2	90.9	142.1	190.5	205.2	211.0	217.6
17.5°	227.1	251.3	179.5	170.0	170.7	181.6	192.0	201.5	205.9	203.6	204.5
20°	342.2	326.1	350.2	299.0	228.6	243.3	222.7	219.7	290.2	352.3	344.3
22.5°	349.5	377.3	345.0	315.8	349.5	247.7	307.0	326.1	335.5	343.6	353.8
25°	565.7	552.4	483.6	362.6	345.0	330.3	333.4	340.6	359.1	386.8	403.7
27.5°	600.7	597.8	534.9	488.7	367.8	413.2	342.2	411.8	444.8	474.0	479.9
30°	808.0	816.1	615.3	469.6	426.3	353.8	397.1	424.2	449.8	490.8	491.6
32.5°	858.6	875.5	680.6	519.4	446.8	366.2	399.2	419.8	517.2	555.3	556.8
35°	871.9	915.1	701.8	501.2	431.5	364.8	368.6	438.8	487.2	564.9	592.7
37.5°	1010.4	978.9	745.9	507.7	403.7	351.0	397.8	421.2	497.4	547.2	556.8
40°	1069.0	1051.3	774.3	520.8	398.6	390.6	368.6	392.6	428.6	464.6	464.6
42.5°	1178.0	1109.1	790.5	511.3	387.6	419.1	336.2	363.4	397.1	375.9	384.7
45°	1323.2	1230.8	845.5	460.8	367.0	356.1	323.1	364.8	343.6	343.6	339.2
47.5°	1510.7	1384.6	827.1	443.3	413.2	337.0	426.3	342.9	316.6	328.2	329.0
50°	1807.4	1657.9	883.6	431.5	392.0	330.3	364.8	331.1	331.1	339.2	336.2
52.5°	2179.6	1885.1	907.7	430.7	370.7	384.7	361.8	396.3	342.9	371.4	367.8
55°	2582.4	2227.2	932.6	424.9	367.0	347.3	442.5	379.5	356.1	408.1	409.5
57.5°	3093.1	2623.5	1035.1	413.2	368.6	348.1	417.6	424.9	433.7	468.1	473.2
60°	3411.1	2843.3	944.4	435.1	364.8	397.1	485.8	474.8	447.6	575.2	594.1
62.5°	3653.6	3009.6	778.0	453.6	431.5	400.0	501.9	553.9	528.9	580.2	594.9
65°	3697.6	2994.9	594.9	453.6	425.6	466.0	602.3	552.4	471.2	476.2	470.4
66°	3694.6	2950.4	548.0	457.1	431.5	485.8	591.3	558.9	455.7	460.8	449.8
67.5°	3573.7	2808.9	476.2	452.0	472.6	498.9	580.9	521.6	438.2	439.6	428.6
70°	3108.6	2369.3	405.1	464.6	490.1	500.4	635.2	485.8	402.3	392.0	389.8
72.5°	2286.5	1680.6	379.5	462.3	497.4	485.1	535.6	399.2	347.3	326.8	324.6
75°	1285.7	858.6	378.0	443.3	440.3	416.2	405.1	307.7	287.2	263.1	258.6
77.5°	592.7	413.8	320.2	356.7	332.6	329.0	301.8	256.5	244.7	228.6	222.1
80°	342.9	292.3	227.8	236.7	238.8	232.2	244.0	230.8	218.3	206.6	195.7
82.5°	200.1	185.4	166.2	156.0	156.0	167.1	200.7	192.0	182.4	172.1	148.0
85°	125.3	120.2	113.5	109.1	109.1	100.4	144.4	160.4	151.6	129.6	115.7
87.5°	82.0	85.7	76.1	77.0	74.6	66.7	97.5	107.6	92.3	74.0	61.5
90°	37.4	41.1	44.6	43.9	47.6	36.7	53.4	54.9	49.0	33.6	24.2
92.5°	28.6	33.6	37.4	37.4	41.1	25.0	38.8	43.2	40.3	31.5	22.6
95°	24.2	30.1	35.9	35.2	35.2	19.9	35.9	40.3	38.1	27.0	19.9
97.5°	19.9	24.2	29.4	29.4	32.2	16.9	33.0	38.8	36.7	27.0	19.0
100°	18.3	22.0	25.6	26.4	29.4	13.1	30.1	36.7	33.0	22.6	18.3
102.5°	16.9	18.3	21.2	21.2	22.0	11.7	24.2	30.1	26.4	17.5	17.5
105°	15.5	15.5	15.5	14.0	14.0	9.5	14.6	20.5	16.1	14.0	15.5
107.5°	14.6	14.0	11.7	11.0	10.3	8.1	10.3	12.4	9.5	12.4	14.0



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CANDELA DISTRIBUTION (continued):

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