

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: P241022

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241022
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-AF24-60-D-U-T4W-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 6266.6 lumens
Efficiency: N/A
Efficacy: 97.9 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): 64
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

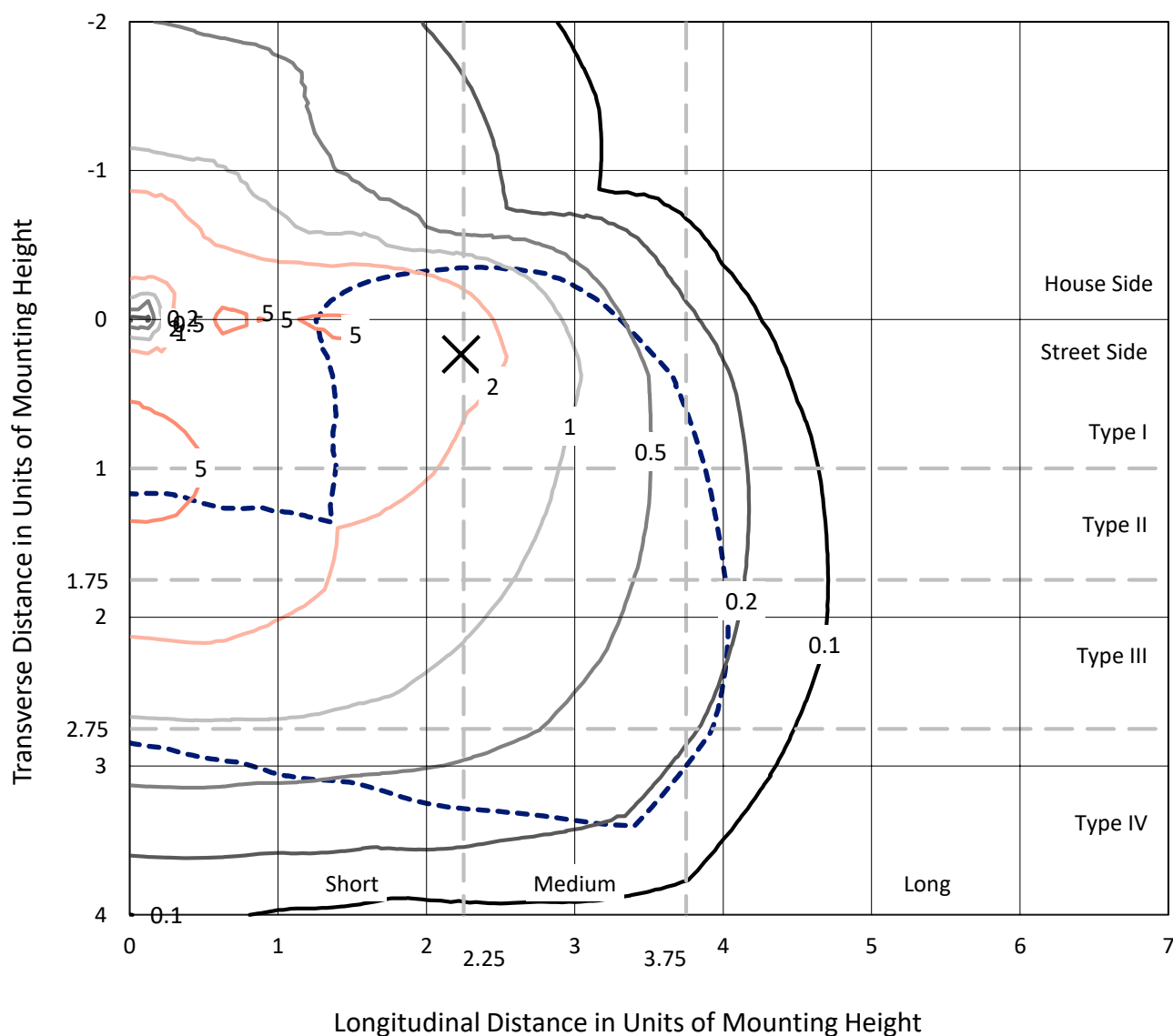


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

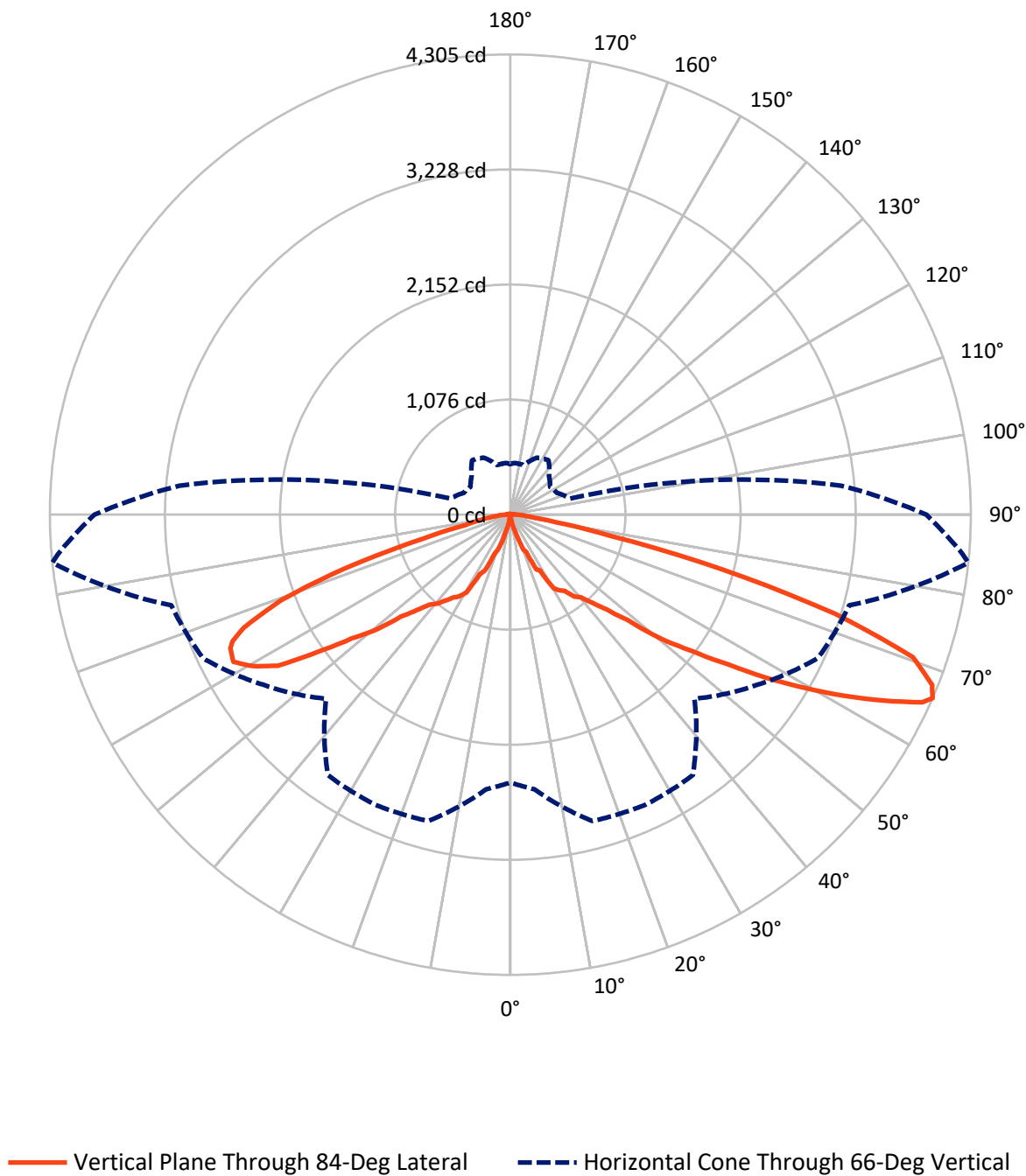


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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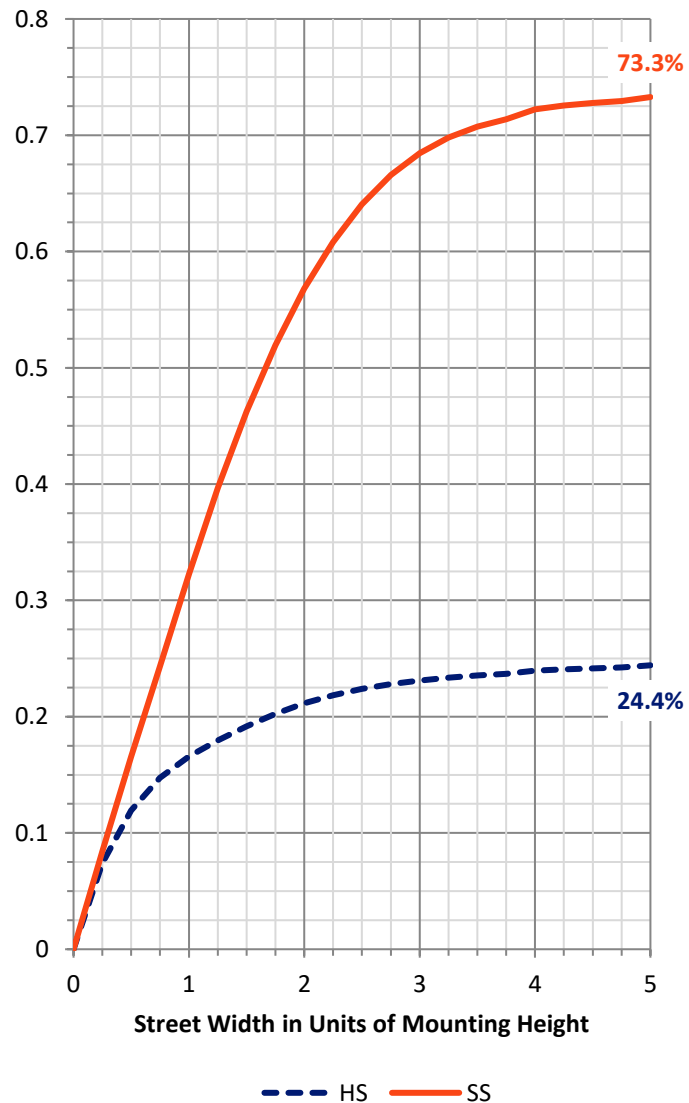
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.1	38.2	1606.3
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	4624.4	35.9	4660.3
	% Fixture	73.8	0.6	74.4
Total	Lumens	6192.6	74.1	6266.6
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	58.2	0.9
20°-30°	215.0	3.4
30°-40°	442.0	7.1
40°-50°	733.3	11.7
50°-60°	1278.6	20.4
60°-70°	1883.6	30.1
70°-80°	1374.6	21.9
80°-90°	202.8	3.2
90°-100°	37.8	0.6
100°-110°	17.3	0.3
110°-120°	8.2	0.1
120°-130°	5.7	0.1
130°-140°	3.4	0.1
140°-150°	1.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6192.6	98.8
0°-180°	6266.6	100.0

Coefficient of Utilization



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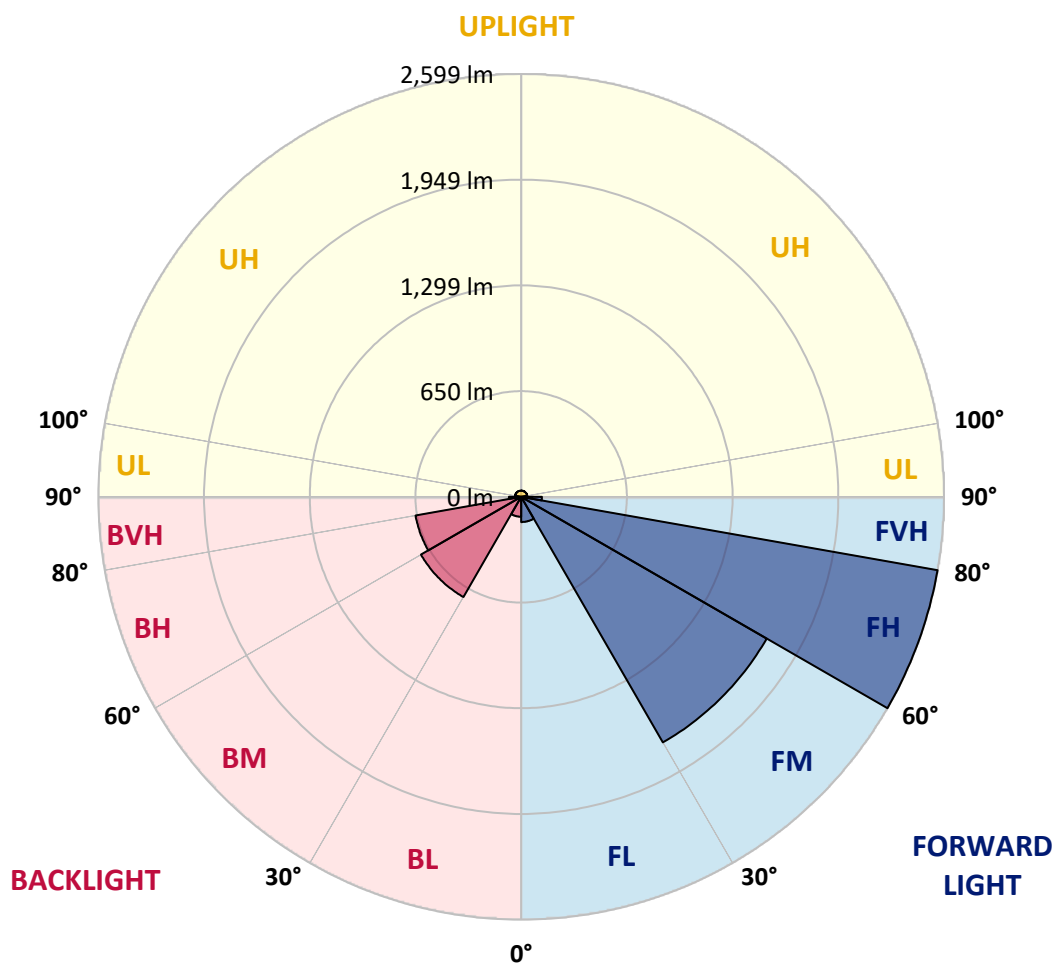
CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.1	2.5			
FM	(30°-60°)	1742.9	27.8			
FH	(60°-80°)	2599.0	41.5			G2/5000
FVH	(80°-90°)	127.5	2.0			G2/225
BL	(0°-30°)	122.6	2.0	B1/500		
BM	(30°-60°)	711.0	11.3	B1/1000		
BH	(60°-80°)	659.2	10.5	B2/1000		G2/1000
BVH	(80°-90°)	75.3	1.2			G1/100
UL	(90°-100°)	37.8	0.6		U2/50	
UH	(100°-180°)	38.2	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°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
2.5°	37.0	33.1	33.1	31.6	28.5	25.5	20.0	17.0	14.6	14.6	13.9
5°	70.9	74.8	86.3	79.4	65.6	85.5	38.6	25.5	16.2	13.9	13.9
7.5°	112.5	118.8	90.9	80.9	80.9	86.3	70.2	42.4	21.6	16.2	15.4
10°	235.9	222.8	155.0	157.2	133.4	93.3	63.9	56.3	33.1	26.2	23.9
12.5°	228.9	225.9	230.5	201.2	202.7	147.2	81.7	131.0	118.8	113.3	124.9
15°	295.2	292.2	234.4	239.0	216.7	225.0	189.7	188.8	182.7	153.4	147.2
17.5°	410.1	407.0	458.7	305.2	217.4	281.4	244.4	210.4	218.2	230.5	239.8
20°	409.4	404.7	426.3	366.2	370.8	290.6	260.5	383.1	350.0	351.5	331.4
22.5°	604.4	576.6	506.5	382.4	417.8	339.9	386.2	378.5	353.0	373.9	367.8
25°	586.7	597.4	573.6	565.8	425.5	487.2	424.7	437.1	539.6	567.3	568.1
27.5°	680.7	659.9	641.4	581.2	572.0	474.1	437.1	582.1	565.1	590.4	589.7
30°	811.7	804.8	800.2	646.0	619.0	522.6	588.9	594.3	686.1	801.7	825.6
32.5°	938.1	905.0	830.2	747.8	621.3	617.5	585.1	738.5	787.1	841.8	850.3
35°	1138.5	1137.8	1011.4	799.4	695.3	656.0	757.8	795.5	794.7	877.3	927.4
37.5°	1309.7	1318.2	1185.6	965.2	719.2	663.0	790.9	857.9	861.1	972.8	953.6
40°	1570.3	1547.9	1429.3	1152.5	821.7	706.9	867.3	877.3	940.5	1015.3	1043.0
42.5°	1755.3	1746.8	1708.2	1371.4	940.5	787.9	957.5	914.3	995.9	1131.7	1160.9
45°	1871.0	1829.3	1867.1	1531.8	1130.9	961.3	977.4	1035.3	1122.4	1265.8	1348.2
47.5°	1987.3	2018.9	1930.3	1652.8	1302.0	1041.5	1075.4	1258.1	1342.1	1470.8	1523.3
50°	2189.3	2155.4	2124.6	1834.7	1565.6	1169.4	1345.2	1320.5	1556.4	1819.3	1828.5
52.5°	2312.7	2312.7	2262.6	1993.5	1747.6	1358.3	1435.4	1523.3	1874.8	2113.0	2199.3
55°	2487.6	2523.8	2514.6	2180.8	1961.9	1615.0	1671.3	1856.2	2166.2	2472.3	2685.8
57.5°	2611.8	2661.8	2770.6	2381.2	2170.0	1719.9	2015.8	2221.6	2557.8	2930.1	3188.3
60°	2796.0	2796.7	2908.6	2558.6	2432.9	1919.5	2149.2	2560.9	2772.9	3370.3	3506.8
62.5°	2814.4	2846.1	3080.4	2834.5	2695.0	2127.6	2585.5	2735.9	3014.9	3812.7	3932.2
65°	2590.9	2675.7	3068.1	2964.0	2934.7	2319.5	2713.5	3081.9	3211.5	4232.2	4198.2
66°	2505.4	2577.0	2966.4	2992.5	2974.0	2434.4	2788.3	3172.2	3280.1	4304.6	4245.2
67.5°	2475.3	2527.7	2844.5	3023.4	3107.4	2642.6	2971.0	3216.2	3405.7	4252.2	4228.3
70°	2266.3	2331.9	2629.5	3226.9	3391.9	3024.1	3206.1	3322.5	3494.4	3992.4	3889.1
72.5°	1728.3	1795.4	2015.1	2662.6	3415.7	3588.4	3570.7	3456.7	3206.1	3172.2	3006.5
75°	857.2	928.9	1083.8	1551.8	2658.0	3525.3	3549.9	3116.7	2590.9	2045.9	1918.7
77.5°	443.2	499.5	418.6	594.3	1366.8	2500.7	2512.3	2055.2	1501.7	955.8	892.7
80°	302.2	314.6	285.2	293.0	562.7	1278.1	1191.7	1093.8	604.4	438.6	457.9
82.5°	222.0	205.1	196.6	213.5	303.7	399.4	428.6	473.3	323.0	222.8	235.1
85°	104.9	115.6	113.3	130.3	185.1	136.5	209.7	284.5	215.1	143.4	141.1
87.5°	65.6	64.8	69.4	80.2	111.8	90.2	114.9	141.1	129.5	89.4	87.9
90°	43.2	38.6	36.2	43.2	62.4	44.7	61.7	80.2	73.2	48.6	45.5
92.5°	29.3	29.3	31.6	36.2	54.0	47.8	44.0	45.5	45.5	37.7	36.2
95°	21.6	23.1	26.2	27.0	32.4	27.7	35.5	39.3	40.1	30.8	30.1
97.5°	18.5	20.0	21.6	22.4	27.0	22.4	29.3	34.7	34.0	24.7	25.5
100°	17.0	18.5	18.5	19.2	21.6	17.0	23.9	32.4	30.8	21.6	20.8
102.5°	16.2	16.2	15.4	15.4	17.0	13.1	20.0	28.5	23.1	17.7	16.2
105°	15.4	15.4	13.1	12.4	13.1	10.8	16.2	21.6	16.2	14.6	14.6
107.5°	14.6	13.9	11.6	10.0	10.8	8.5	13.1	13.9	11.6	13.1	13.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	13.1	13.1	10.0	8.5	8.5	7.0	9.2	10.0	10.0	13.1	13.9
112.5°	12.4	11.6	8.5	7.0	7.0	6.1	7.0	7.7	8.5	12.4	13.1
115°	11.6	10.8	7.7	6.1	5.4	4.6	5.4	6.1	7.7	12.4	12.4
117.5°	10.8	10.0	7.0	5.4	4.6	3.9	4.6	5.4	7.7	12.4	12.4
120°	10.8	10.0	7.0	4.6	3.9	3.9	3.9	4.6	8.5	12.4	13.1
122.5°	10.0	10.0	7.0	4.6	3.9	3.1	3.1	4.6	7.7	11.6	11.6
125°	10.0	10.0	6.1	3.9	3.1	3.1	3.1	3.9	7.7	10.8	11.6
127.5°	9.2	9.2	6.1	3.9	3.1	2.4	2.4	3.9	7.0	10.8	10.8
130°	9.2	9.2	6.1	3.1	2.4	2.4	2.4	3.1	7.0	10.0	10.0
132.5°	7.7	7.7	5.4	3.1	2.4	1.5	2.4	3.1	6.1	8.5	9.2
135°	7.7	7.7	5.4	3.1	2.4	1.5	1.5	3.1	5.4	7.7	7.7
137.5°	7.0	7.0	4.6	3.1	2.4	1.5	1.5	2.4	4.6	7.0	7.0
140°	6.1	6.1	5.4	3.1	2.4	1.5	1.5	1.5	3.9	5.4	5.4
142.5°	6.1	6.1	4.6	3.1	1.5	0.8	0.8	1.5	3.1	3.9	3.9
145°	5.4	5.4	4.6	3.1	1.5	0.8	0.8	1.5	2.4	3.1	3.1
147.5°	5.4	5.4	4.6	2.4	0.8	0.8	0.8	1.5	2.4	3.1	3.1
150°	4.6	4.6	3.1	1.5	0.0	0.0	0.8	0.8	1.5	2.4	2.4
152.5°	3.1	3.1	2.4	0.8	0.0	0.0	0.0	0.8	1.5	1.5	1.5
155°	1.5	1.5	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°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
2.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.1	13.1	13.1	13.1	13.1
5°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.9	14.6	14.6	14.6
7.5°	14.6	14.6	13.9	13.1	13.9	15.4	23.1	53.2	77.8	95.5	94.8
10°	23.9	23.9	22.4	19.2	23.9	52.4	103.3	104.0	86.3	79.4	82.4
12.5°	126.4	112.5	95.5	78.7	77.1	93.3	87.9	122.5	137.2	147.2	145.7
15°	145.0	153.4	140.3	157.2	161.1	95.5	149.6	200.4	215.8	222.0	228.9
17.5°	239.0	264.4	188.8	178.8	179.6	191.2	201.9	212.0	216.7	214.3	215.1
20°	360.0	343.0	368.5	314.6	240.5	255.9	234.4	231.3	305.2	370.8	362.3
22.5°	367.8	397.0	363.0	332.3	367.8	260.5	323.0	343.0	353.0	361.5	372.4
25°	595.2	581.2	508.8	381.6	363.0	347.7	350.8	358.4	377.8	407.0	424.7
27.5°	632.1	629.0	562.7	514.1	387.0	434.8	360.0	433.2	467.9	498.8	504.9
30°	850.3	858.8	647.5	494.1	448.7	372.4	417.8	446.3	473.3	516.5	517.3
32.5°	903.5	921.2	716.2	546.6	470.3	385.4	420.1	441.7	544.2	584.3	585.8
35°	917.4	962.8	738.5	527.3	454.1	383.9	387.8	461.8	512.6	594.3	623.7
37.5°	1063.1	1029.9	784.8	534.2	424.7	369.3	418.6	443.2	523.4	575.8	585.8
40°	1124.7	1106.2	814.8	548.1	419.4	410.9	387.8	413.2	450.9	488.8	488.8
42.5°	1239.6	1167.1	831.8	538.1	407.7	441.0	353.8	382.4	417.8	395.5	404.7
45°	1392.2	1295.1	889.6	484.9	386.2	374.6	339.9	383.9	361.5	361.5	356.9
47.5°	1589.6	1457.0	870.3	466.4	434.8	354.7	448.7	360.8	333.0	345.3	346.2
50°	1901.8	1744.5	929.7	454.1	412.5	347.7	383.9	348.4	348.4	356.9	353.8
52.5°	2293.4	1983.5	955.1	453.3	390.1	404.7	380.8	417.1	360.8	390.9	387.0
55°	2717.4	2343.5	981.3	447.1	386.2	365.4	465.6	399.4	374.6	429.3	431.0
57.5°	3254.6	2760.5	1089.2	434.8	387.8	366.2	439.4	447.1	456.3	492.6	498.0
60°	3589.2	2991.8	993.7	457.9	383.9	417.8	511.1	499.5	471.0	605.2	625.2
62.5°	3844.4	3166.7	818.7	477.2	454.1	420.9	528.0	582.8	556.6	610.5	625.9
65°	3890.7	3151.4	625.9	477.2	447.8	490.3	633.6	581.2	495.7	501.0	494.9
66°	3887.5	3104.3	576.6	481.0	454.1	511.1	622.1	588.2	479.5	484.9	473.3
67.5°	3760.4	2955.6	501.0	475.7	497.3	525.0	611.3	548.9	460.9	462.6	450.9
70°	3270.9	2493.0	426.3	488.8	515.7	526.5	668.4	511.1	423.2	412.5	410.1
72.5°	2405.9	1768.4	399.4	486.4	523.4	510.4	563.5	420.1	365.4	343.8	341.5
75°	1352.9	903.5	397.8	466.4	463.3	437.8	426.3	323.8	302.2	276.7	272.1
77.5°	623.7	435.6	336.9	375.4	350.0	346.2	317.6	269.9	257.5	240.5	233.5
80°	360.8	307.6	239.8	249.0	251.3	244.4	256.7	242.8	229.8	217.4	205.8
82.5°	210.4	195.1	175.0	164.2	164.2	175.7	211.2	201.9	191.9	181.2	155.7
85°	131.9	126.4	119.5	114.9	114.9	105.6	151.9	168.8	159.6	136.5	121.8
87.5°	86.3	90.2	80.2	80.9	78.7	70.2	102.5	113.3	97.2	77.8	64.8
90°	39.3	43.2	47.1	46.2	50.1	38.6	56.3	57.8	51.7	35.5	25.5
92.5°	30.1	35.5	39.3	39.3	43.2	26.2	40.8	45.5	42.4	33.1	23.9
95°	25.5	31.6	37.7	37.0	37.0	20.8	37.7	42.4	40.1	28.5	20.8
97.5°	20.8	25.5	30.8	30.8	34.0	17.7	34.7	40.8	38.6	28.5	20.0
100°	19.2	23.1	27.0	27.7	30.8	13.9	31.6	38.6	34.7	23.9	19.2
102.5°	17.7	19.2	22.4	22.4	23.1	12.4	25.5	31.6	27.7	18.5	18.5
105°	16.2	16.2	16.2	14.6	14.6	10.0	15.4	21.6	17.0	14.6	16.2
107.5°	15.4	14.6	12.4	11.6	10.8	8.5	10.8	13.1	10.0	13.1	14.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	14.6	14.6	11.6	10.0	9.2	7.7	9.2	8.5	8.5	13.1	13.9
112.5°	14.6	13.9	10.0	8.5	7.7	7.0	7.7	6.1	7.7	13.1	13.9
115°	13.9	13.9	9.2	7.7	7.7	6.1	6.1	5.4	7.0	12.4	13.9
117.5°	13.9	13.9	9.2	7.0	6.1	5.4	5.4	5.4	7.0	12.4	13.9
120°	13.9	13.1	9.2	7.0	5.4	4.6	4.6	4.6	7.0	12.4	13.1
122.5°	13.1	12.4	8.5	6.1	5.4	4.6	3.9	4.6	7.0	11.6	12.4
125°	12.4	12.4	8.5	5.4	4.6	3.9	3.1	3.9	7.0	11.6	12.4
127.5°	12.4	11.6	7.7	4.6	3.9	3.9	3.1	3.9	7.0	10.8	11.6
130°	10.8	10.8	7.0	4.6	3.1	3.1	2.4	3.1	7.0	10.8	10.8
132.5°	10.0	9.2	6.1	3.9	3.1	2.4	2.4	2.4	6.1	9.2	10.0
135°	8.5	7.7	5.4	3.1	2.4	2.4	1.5	2.4	5.4	8.5	8.5
137.5°	7.0	7.0	5.4	3.1	2.4	1.5	1.5	2.4	5.4	7.7	8.5
140°	6.1	5.4	3.9	2.4	1.5	1.5	1.5	2.4	4.6	6.1	7.0
142.5°	4.6	4.6	3.1	2.4	1.5	1.5	0.8	1.5	3.9	5.4	5.4
145°	3.9	3.9	3.1	1.5	1.5	0.8	0.8	0.8	3.1	3.9	4.6
147.5°	3.1	3.1	2.4	1.5	0.8	0.8	0.0	0.8	2.4	3.1	3.1
150°	2.4	2.4	2.4	1.5	0.8	0.0	0.0	0.0	0.8	1.5	1.5
152.5°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.5	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)