

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: P240477

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T4W-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7599 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

Input Watts (W): 96
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

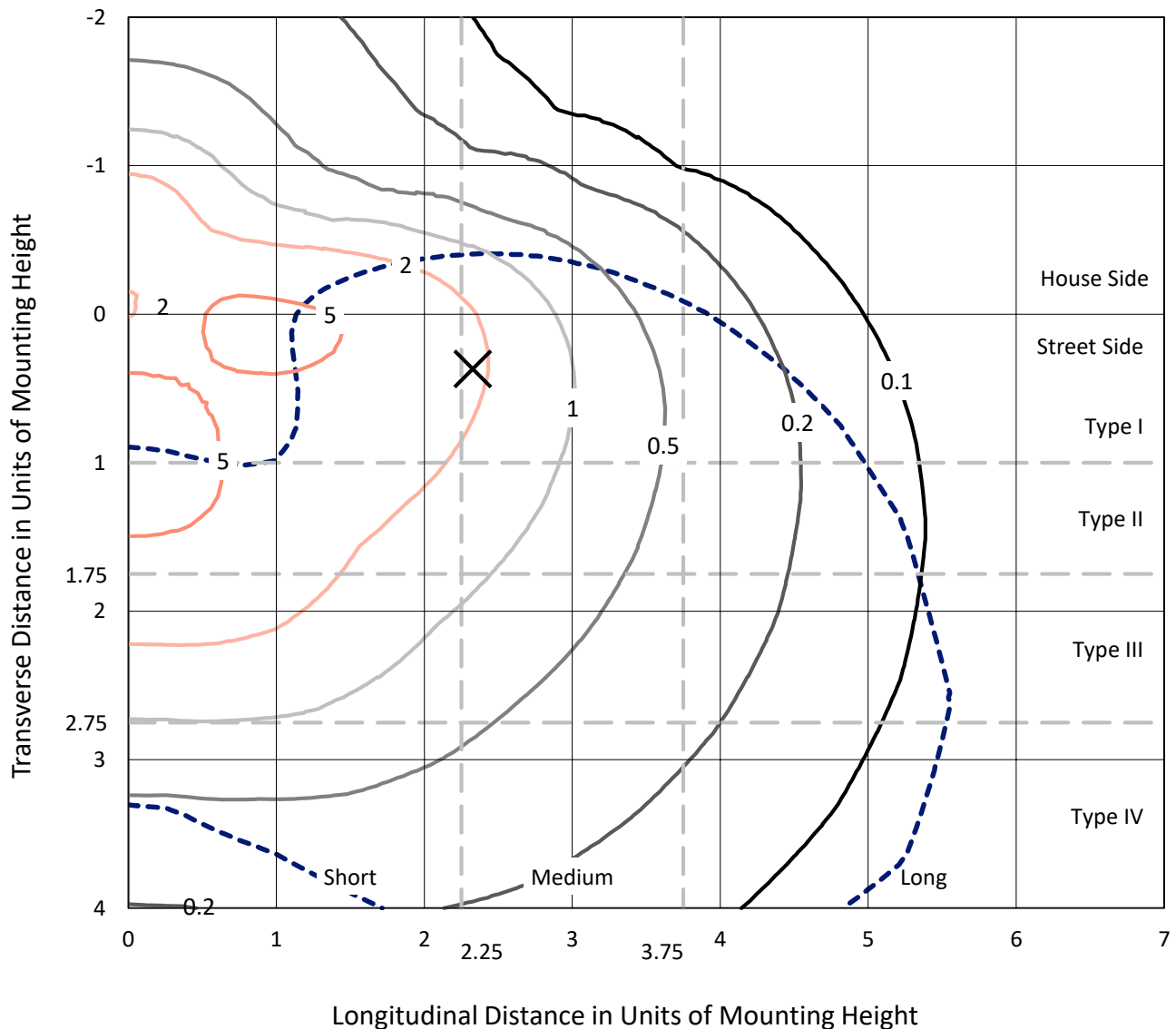


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

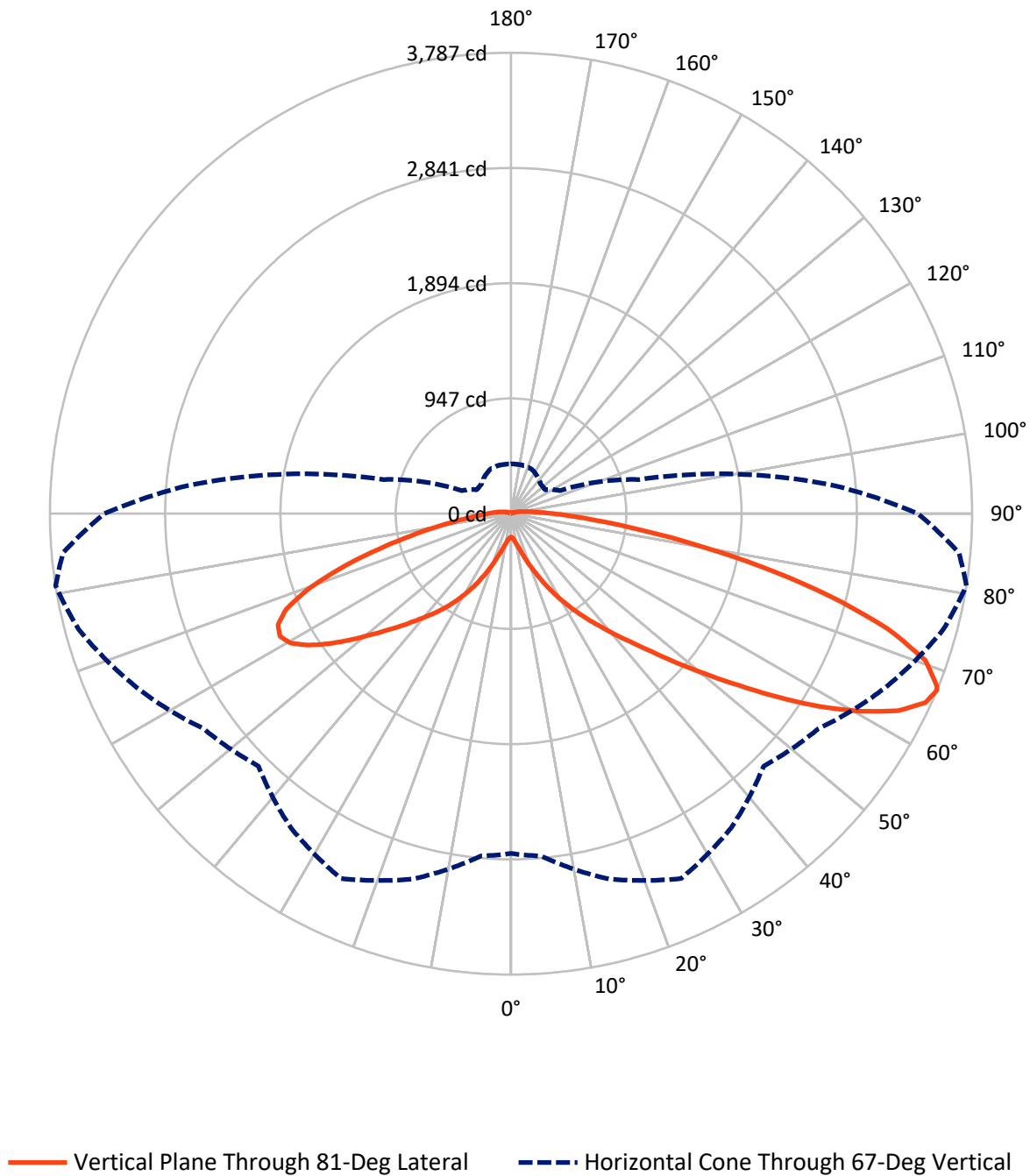


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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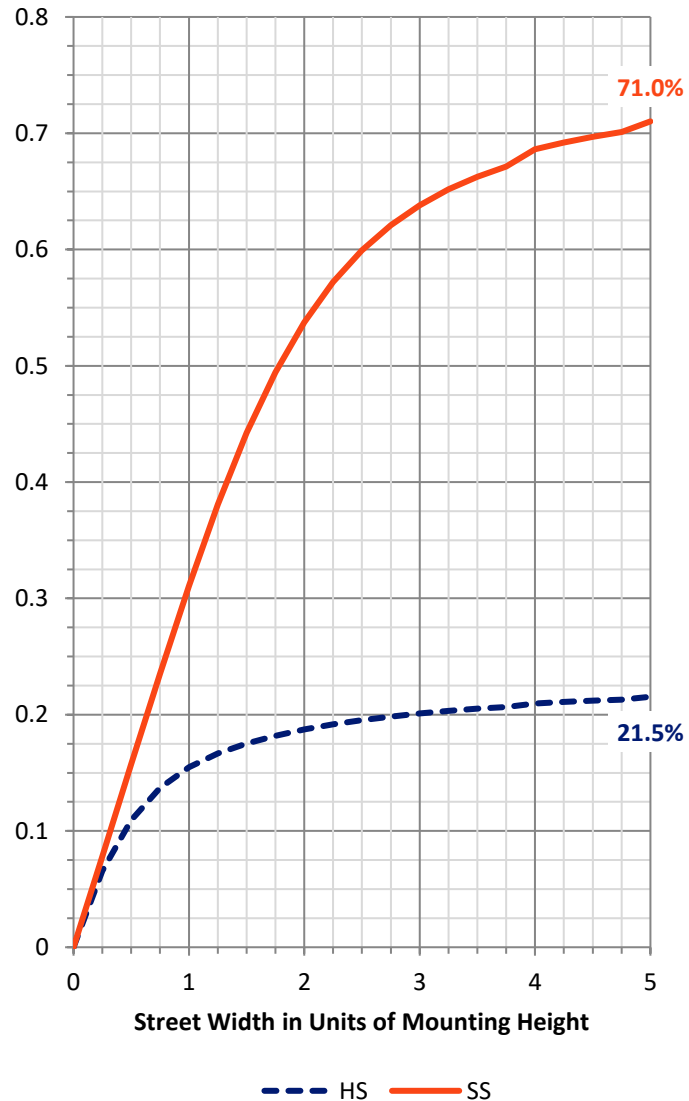
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.0	139.0	1865.9
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	5574.3	158.7	5733.1
	% Fixture	73.4	2.1	75.4
Total	Lumens	7301.3	297.7	7599.0
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	0.3
10°-20°	95.9	1.3
20°-30°	259.1	3.4
30°-40°	520.2	6.8
40°-50°	879.1	11.6
50°-60°	1405.6	18.5
60°-70°	1920.6	25.3
70°-80°	1583.2	20.8
80°-90°	616.2	8.1
90°-100°	177.4	2.3
100°-110°	68.0	0.9
110°-120°	29.4	0.4
120°-130°	14.1	0.2
130°-140°	6.6	0.1
140°-150°	2.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7301.3	96.1
0°-180°	7599.0	100.0

Coefficient of Utilization



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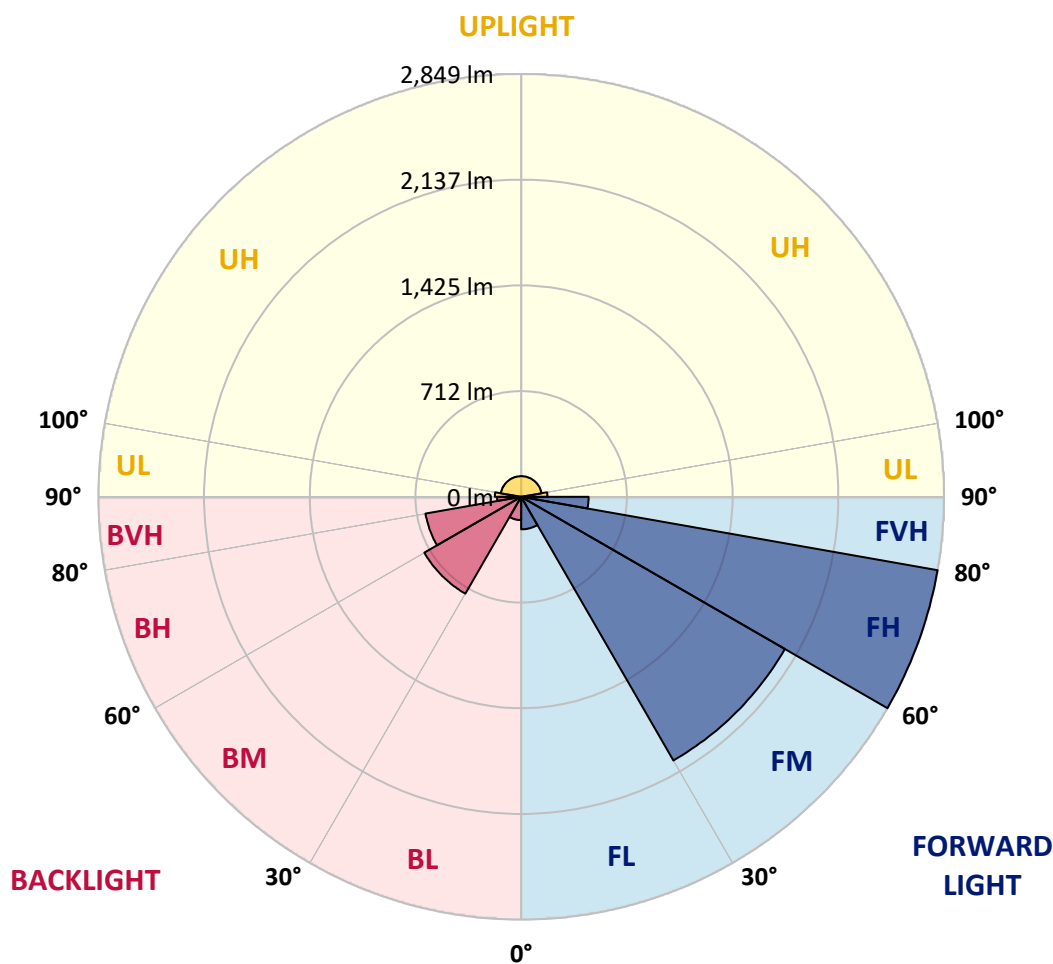
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.5	2.9			
FM	(30°-60°)	2051.6	27.0			
FH	(60°-80°)	2849.3	37.5			G2/5000
FVH	(80°-90°)	454.0	6.0			G3/500
BL	(0°-30°)	156.9	2.1	B1/500		
BM	(30°-60°)	753.4	9.9	B1/1000		
BH	(60°-80°)	654.5	8.6	B2/1000		G2/1000
BVH	(80°-90°)	162.2	2.1			G2/225
UL	(90°-100°)	177.4	2.3		U3/500	
UH	(100°-180°)	139.0	1.8		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6
2.5°	207.9	207.9	207.9	206.9	206.0	204.1	202.1	200.2	199.2	198.3	197.3
5°	229.2	230.2	229.2	228.3	225.3	222.5	218.6	215.7	211.9	209.9	208.9
7.5°	261.1	261.1	260.1	255.3	252.4	247.6	242.8	237.0	233.0	230.2	226.2
10°	301.8	299.8	297.8	293.1	286.3	278.5	272.7	265.9	259.2	257.3	253.4
12.5°	350.0	350.0	345.3	338.4	325.9	318.2	308.5	300.8	294.0	290.2	288.2
15°	414.8	412.0	403.2	392.7	377.2	361.7	351.0	345.3	338.4	338.4	331.7
17.5°	480.6	483.6	470.1	453.5	432.3	413.0	400.4	399.5	396.5	394.7	393.7
20°	566.7	563.9	547.4	519.3	488.4	465.2	456.4	457.5	465.2	464.3	460.3
22.5°	659.6	659.6	634.5	596.8	553.2	525.2	516.5	525.2	541.6	541.6	543.6
25°	769.8	766.0	734.1	677.0	624.8	588.1	584.1	597.6	626.7	631.5	629.7
27.5°	893.6	880.1	838.4	767.9	699.3	657.6	650.8	676.0	715.6	729.2	734.1
30°	1025.2	1026.2	962.3	870.5	777.6	722.4	719.6	760.2	807.5	830.8	836.6
32.5°	1177.0	1172.2	1098.7	983.6	863.7	792.1	789.2	845.2	905.2	935.3	939.1
35°	1365.6	1343.4	1261.2	1110.3	952.6	871.4	869.4	930.4	1008.7	1046.4	1056.1
37.5°	1538.7	1527.1	1433.3	1241.8	1054.2	951.6	947.9	1027.1	1119.9	1163.5	1177.0
40°	1740.8	1727.3	1617.0	1398.5	1175.1	1044.5	1042.6	1132.5	1239.9	1295.0	1306.6
42.5°	1939.2	1930.4	1811.4	1572.6	1302.7	1149.0	1145.1	1249.6	1376.2	1438.2	1452.6
45°	2151.9	2129.7	2014.5	1750.6	1445.0	1269.8	1271.8	1385.0	1541.6	1614.2	1628.6
47.5°	2333.7	2320.1	2223.4	1942.9	1601.6	1401.4	1404.3	1555.2	1745.6	1829.9	1836.6
50°	2532.0	2524.2	2428.5	2147.1	1790.2	1564.8	1569.6	1739.9	1970.1	2066.7	2100.6
52.5°	2696.4	2697.4	2624.9	2356.9	1975.9	1740.8	1755.4	1960.4	2213.8	2343.4	2363.8
55°	2856.9	2852.1	2809.5	2587.2	2196.3	1938.2	1954.5	2204.1	2504.9	2661.5	2688.7
57.5°	2973.0	2985.5	2990.4	2807.6	2410.2	2136.4	2190.5	2457.5	2822.1	2990.4	3014.6
60°	3053.2	3059.0	3126.8	3029.1	2641.3	2370.5	2441.1	2738.9	3120.0	3297.0	3312.4
62.5°	3045.5	3070.6	3202.2	3195.4	2865.7	2592.9	2682.9	3003.0	3379.2	3566.8	3569.7
65°	2942.1	2983.7	3204.1	3300.8	3051.3	2803.7	2919.9	3240.8	3592.0	3740.9	3702.2
67°	2792.1	2824.1	3107.5	3307.6	3151.9	2934.2	3081.3	3387.9	3676.1	3787.4	3693.5
67.5°	2729.3	2786.3	3071.6	3300.8	3162.5	2962.3	3107.5	3426.6	3693.5	3772.8	3672.2
70°	2426.5	2471.0	2791.1	3162.5	3166.5	3047.5	3215.7	3473.1	3627.7	3610.4	3428.5
72.5°	2016.5	2036.8	2387.9	2857.9	3021.3	3013.6	3183.9	3353.0	3351.1	3236.0	3015.5
75°	1528.1	1582.3	1898.5	2399.5	2718.6	2825.0	2979.7	3035.9	2902.4	2709.0	2442.1
77.5°	1078.4	1106.4	1386.0	1886.9	2297.9	2496.1	2605.5	2579.4	2333.7	2105.4	1863.6
80°	698.2	725.4	917.8	1352.1	1801.8	2013.5	2113.2	2035.8	1788.2	1520.4	1317.2
82.5°	422.7	445.9	581.3	907.2	1324.0	1561.0	1611.2	1536.7	1261.2	1038.7	879.1
85°	247.6	265.9	360.8	585.1	902.4	1126.7	1145.1	1060.1	847.2	694.5	586.0
87.5°	150.9	160.5	228.3	374.3	598.6	760.2	797.9	718.6	570.7	464.3	394.7
90°	97.7	104.5	146.1	245.7	392.7	501.9	525.2	479.6	386.9	316.3	271.7
92.5°	66.7	73.5	101.5	164.4	258.2	332.7	347.2	315.3	260.1	222.5	198.3
95°	51.3	54.2	77.3	116.1	176.0	222.5	236.0	214.7	181.8	163.5	148.9
97.5°	41.6	43.4	62.0	89.9	127.7	159.6	165.4	149.9	134.4	122.8	116.1
100°	35.8	36.7	52.2	73.5	99.7	120.8	123.8	112.2	101.5	95.7	89.9
102.5°	31.9	32.9	45.5	62.9	81.3	95.7	95.7	87.1	77.3	73.5	70.6
105°	28.1	29.1	40.7	54.2	69.6	78.3	78.3	68.7	60.0	56.0	55.1
107.5°	25.1	26.1	34.9	47.4	59.0	65.8	64.8	55.1	45.5	41.6	41.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	23.2	23.2	30.9	41.6	50.3	56.0	53.2	44.5	34.9	31.9	32.9
112.5°	21.3	21.3	27.1	35.8	44.5	48.4	44.5	36.7	27.1	25.1	26.1
115°	20.3	20.3	24.1	31.9	38.7	40.7	37.7	29.9	22.3	20.3	21.3
117.5°	18.3	18.3	22.3	28.1	32.9	34.9	31.9	24.1	18.3	17.4	18.3
120°	17.4	17.4	19.3	24.1	29.1	29.9	27.1	20.3	15.6	15.6	16.4
122.5°	16.4	16.4	18.3	21.3	25.1	26.1	23.2	16.4	13.5	13.5	14.5
125°	16.4	16.4	16.4	19.3	21.3	22.3	19.3	14.5	12.6	12.6	13.5
127.5°	15.6	15.6	15.6	16.4	18.3	18.3	16.4	11.6	10.6	11.6	11.6
130°	14.5	14.5	14.5	15.6	16.4	15.6	13.5	9.8	9.8	10.6	10.6
132.5°	13.5	13.5	13.5	13.5	13.5	12.6	10.6	8.7	8.7	9.8	9.8
135°	12.6	12.6	12.6	11.6	11.6	10.6	8.7	6.8	7.7	8.7	8.7
137.5°	11.6	11.6	11.6	10.6	9.8	7.7	5.8	5.8	6.8	7.7	7.7
140°	10.6	10.6	9.8	8.7	7.7	5.8	3.9	4.8	5.8	5.8	6.8
142.5°	8.7	8.7	8.7	6.8	4.8	3.9	2.9	2.9	4.8	4.8	4.8
145°	7.7	7.7	6.8	5.8	3.9	1.9	1.0	1.9	2.9	3.9	3.9
147.5°	5.8	5.8	5.8	3.9	1.9	1.0	1.0	1.0	1.9	2.9	2.9
150°	4.8	4.8	3.9	2.9	1.0	0.0	0.0	1.0	1.9	1.9	1.9
152.5°	2.9	2.9	2.9	1.9	0.0	0.0	0.0	1.0	1.0	1.0	1.0
155°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6
2.5°	196.3	195.3	194.4	192.6	191.5	189.6	187.6	186.7	185.7	185.7	185.7
5°	206.9	206.0	203.1	199.2	196.3	193.4	191.5	189.6	187.6	187.6	187.6
7.5°	224.4	222.5	216.7	212.7	207.9	204.1	201.1	198.3	197.3	197.3	196.3
10°	249.5	246.6	239.9	232.0	225.3	220.4	216.7	213.7	212.7	212.7	212.7
12.5°	282.4	278.5	267.9	258.2	247.6	240.8	236.0	235.0	236.0	236.0	235.0
15°	329.8	322.1	305.6	290.2	273.7	263.1	260.1	260.1	265.0	266.9	267.9
17.5°	386.9	377.2	355.0	329.8	304.7	290.2	288.2	294.0	304.7	309.5	308.5
20°	457.5	443.9	413.0	375.2	340.5	322.1	320.1	330.7	345.3	355.0	354.0
22.5°	536.8	524.2	477.8	422.7	374.3	353.0	350.0	367.5	388.8	399.5	403.2
25°	624.8	607.4	546.4	471.0	410.0	380.1	379.1	400.4	428.4	447.8	450.7
27.5°	720.6	700.3	619.9	519.3	441.0	402.3	401.3	430.4	469.0	493.2	494.2
30°	825.9	795.0	692.4	560.0	464.3	417.8	419.8	453.5	502.9	531.0	535.8
32.5°	930.4	895.6	758.3	599.7	479.6	425.6	428.4	471.0	525.2	560.9	564.8
35°	1040.7	996.1	824.1	625.7	488.4	426.5	429.4	477.8	536.8	575.5	579.3
37.5°	1151.8	1098.7	879.1	645.0	488.4	420.7	424.6	475.9	535.8	575.5	578.3
40°	1283.4	1206.0	931.3	652.9	480.6	410.0	414.8	465.2	521.2	558.0	560.9
42.5°	1419.8	1327.0	980.7	650.8	467.1	396.5	401.3	447.8	497.1	527.0	530.0
45°	1584.1	1471.0	1031.0	645.0	450.7	382.0	384.9	426.5	468.0	489.4	493.2
47.5°	1786.3	1625.8	1082.2	634.5	432.3	368.5	370.4	407.2	437.1	450.7	453.5
50°	2010.7	1808.6	1138.4	619.9	414.8	355.8	358.8	388.8	410.0	415.8	416.9
52.5°	2276.6	2015.5	1190.6	602.6	399.5	346.3	350.0	377.2	391.7	392.7	393.7
55°	2563.9	2241.8	1237.0	581.3	383.9	339.5	347.2	372.3	382.0	381.1	382.0
57.5°	2863.6	2459.4	1268.9	559.0	371.4	335.7	348.2	372.3	382.0	380.1	382.0
60°	3131.6	2646.0	1273.8	530.0	361.7	335.7	354.0	379.1	387.9	387.9	389.7
62.5°	3322.1	2753.5	1241.8	501.0	353.0	337.5	361.7	387.9	396.5	396.5	398.5
65°	3399.5	2751.4	1172.2	470.1	346.3	340.5	369.4	397.4	404.3	404.3	406.2
67°	3341.4	2661.5	1082.2	446.9	342.4	343.3	375.2	403.2	409.0	408.1	409.0
67.5°	3305.6	2629.7	1062.9	440.1	341.4	343.3	376.2	404.3	410.0	409.0	409.0
70°	3009.8	2358.0	929.5	411.1	334.7	343.3	380.1	406.2	410.0	408.1	408.1
72.5°	2552.3	1973.0	779.6	382.0	326.9	340.5	378.1	403.2	405.3	402.3	402.3
75°	2030.0	1543.5	640.3	356.8	316.3	333.7	371.4	394.7	397.4	394.7	391.7
77.5°	1503.0	1143.2	517.5	329.8	303.6	323.0	359.8	382.0	384.9	382.0	379.1
80°	1048.4	812.5	416.9	302.7	287.3	307.6	343.3	362.6	366.6	364.6	359.8
82.5°	701.2	558.0	333.7	272.7	265.9	287.3	321.1	338.4	341.4	339.5	333.7
85°	478.8	388.8	275.7	240.8	242.8	263.1	292.0	305.6	308.5	305.6	299.8
87.5°	322.1	278.5	225.3	209.9	215.7	235.0	258.2	265.0	270.9	265.9	262.1
90°	233.0	209.9	181.8	178.9	188.6	205.1	220.4	221.5	229.2	227.3	219.5
92.5°	175.1	164.4	150.9	150.9	161.4	175.1	184.7	182.8	187.6	187.6	181.8
95°	138.3	132.5	125.7	128.6	138.3	147.9	150.9	147.0	151.9	152.9	150.9
97.5°	111.2	109.3	107.4	109.3	118.0	125.7	124.8	118.0	121.9	123.8	121.9
100°	89.9	88.9	89.9	93.9	100.6	105.4	102.4	95.7	98.7	98.7	98.7
102.5°	72.5	72.5	75.4	79.3	84.1	88.1	84.1	78.3	79.3	78.3	78.3
105°	57.1	58.0	62.0	66.7	70.6	72.5	68.7	62.9	62.0	59.0	60.0
107.5°	44.5	46.4	50.3	55.1	59.0	60.0	57.1	51.3	47.4	45.5	45.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	34.9	36.7	41.6	45.5	48.4	49.2	46.4	40.7	35.8	34.9	34.9
112.5°	28.1	29.9	33.9	37.7	40.7	40.7	37.7	32.9	27.1	26.1	26.1
115°	23.2	24.1	28.1	30.9	33.9	33.9	30.9	26.1	21.3	20.3	21.3
117.5°	19.3	20.3	23.2	26.1	28.1	28.1	25.1	20.3	16.4	16.4	16.4
120°	17.4	18.3	20.3	22.3	23.2	23.2	21.3	16.4	13.5	13.5	13.5
122.5°	15.6	15.6	17.4	18.3	20.3	19.3	17.4	13.5	10.6	11.6	11.6
125°	13.5	14.5	14.5	16.4	16.4	16.4	13.5	10.6	9.8	9.8	9.8
127.5°	12.6	12.6	13.5	13.5	14.5	13.5	10.6	7.7	7.7	8.7	8.7
130°	11.6	11.6	11.6	11.6	11.6	10.6	8.7	6.8	6.8	7.7	7.7
132.5°	9.8	10.6	10.6	9.8	9.8	8.7	6.8	4.8	5.8	5.8	5.8
135°	8.7	9.8	8.7	8.7	7.7	6.8	4.8	3.9	4.8	4.8	4.8
137.5°	7.7	7.7	7.7	6.8	5.8	4.8	3.9	2.9	3.9	3.9	3.9
140°	6.8	6.8	6.8	5.8	4.8	3.9	1.9	1.9	2.9	2.9	2.9
142.5°	4.8	5.8	4.8	3.9	2.9	1.9	1.0	1.0	1.9	2.9	1.9
145°	3.9	3.9	3.9	2.9	1.9	1.0	0.0	0.0	1.0	1.0	1.0
147.5°	2.9	2.9	2.9	1.9	1.0	1.0	0.0	0.0	0.0	1.0	1.0
150°	1.9	1.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	1.0	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)