

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: P240476

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240476
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-AF24-90-D-U-T4W-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7582.5 lumens
Efficiency: N/A
Efficacy: 80.7 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): 94
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

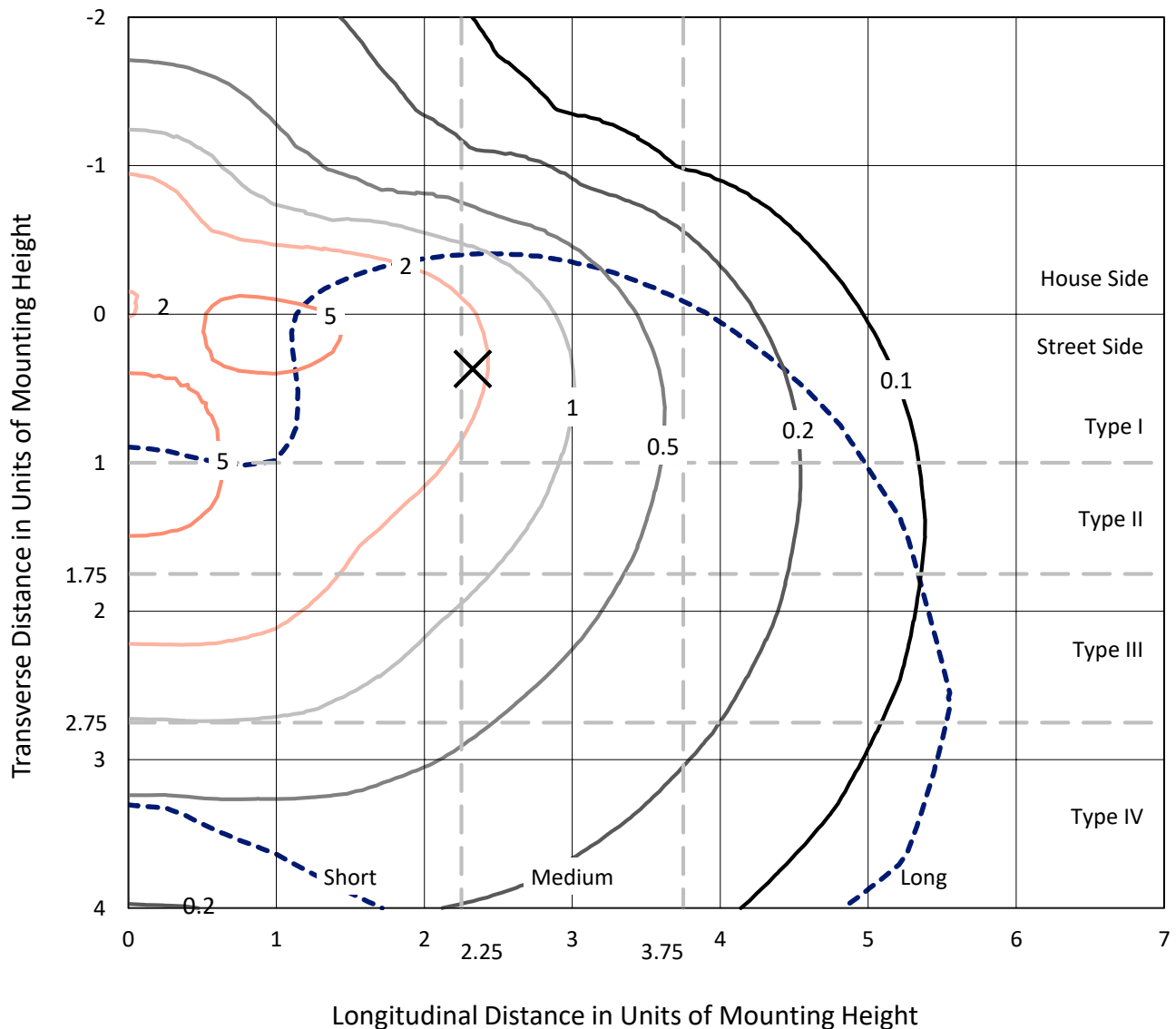


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

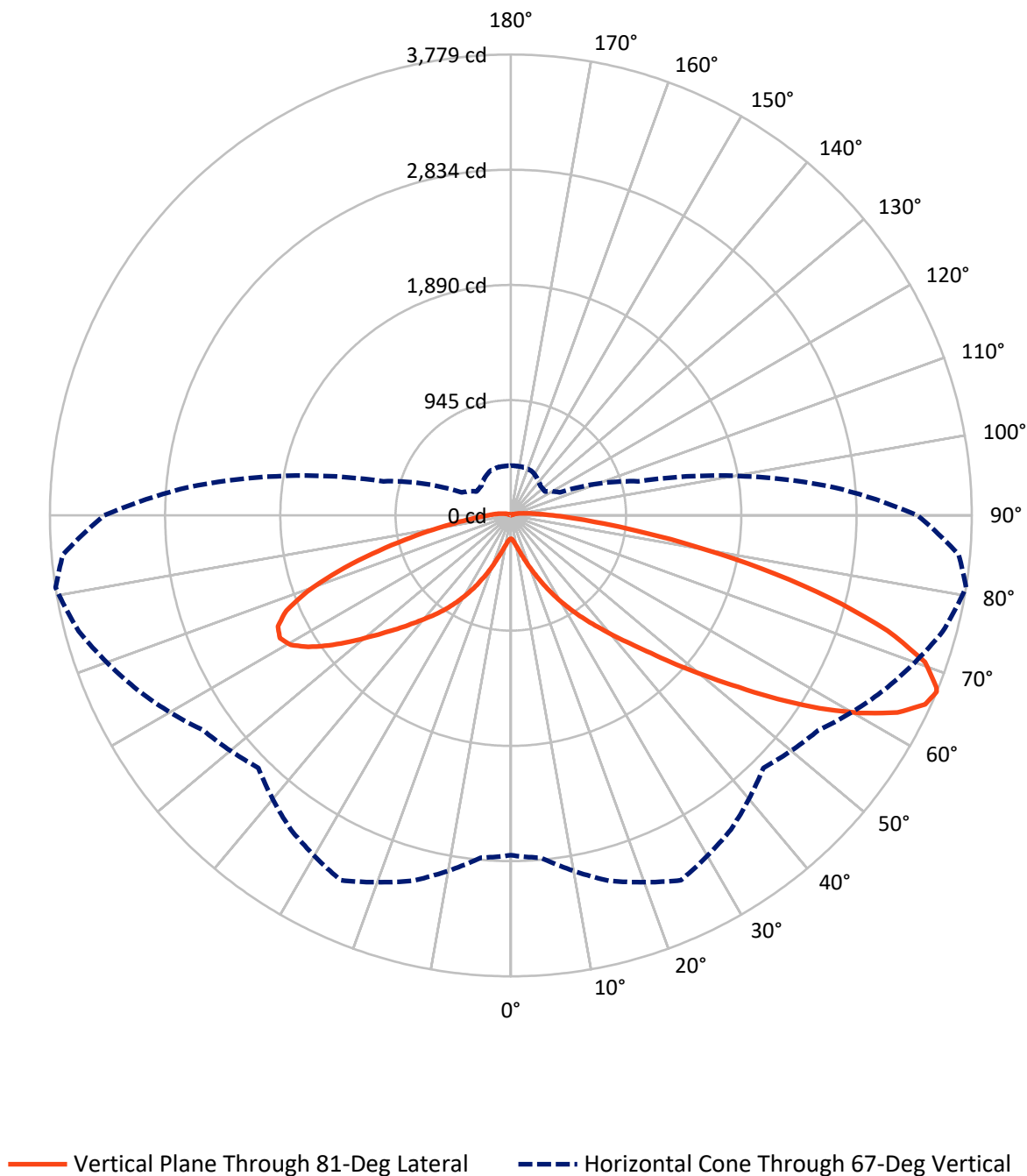


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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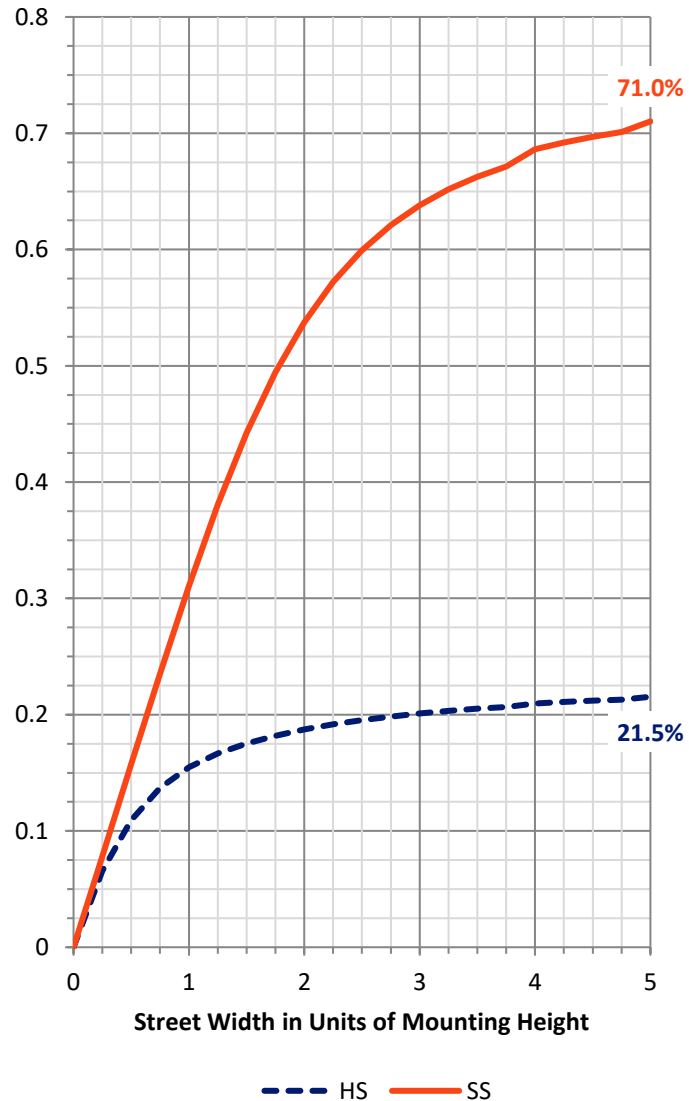
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1723.2	138.6	1861.9
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	5562.3	158.4	5720.7
	% Fixture	73.4	2.1	75.4
Total	Lumens	7285.5	297.0	7582.5
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	0.3
10°-20°	95.7	1.3
20°-30°	258.6	3.4
30°-40°	519.0	6.8
40°-50°	877.2	11.6
50°-60°	1402.6	18.5
60°-70°	1916.5	25.3
70°-80°	1579.7	20.8
80°-90°	614.9	8.1
90°-100°	177.0	2.3
100°-110°	67.8	0.9
110°-120°	29.3	0.4
120°-130°	14.0	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°	7285.5	96.1
0°-180°	7582.5	100.0

Coefficient of Utilization



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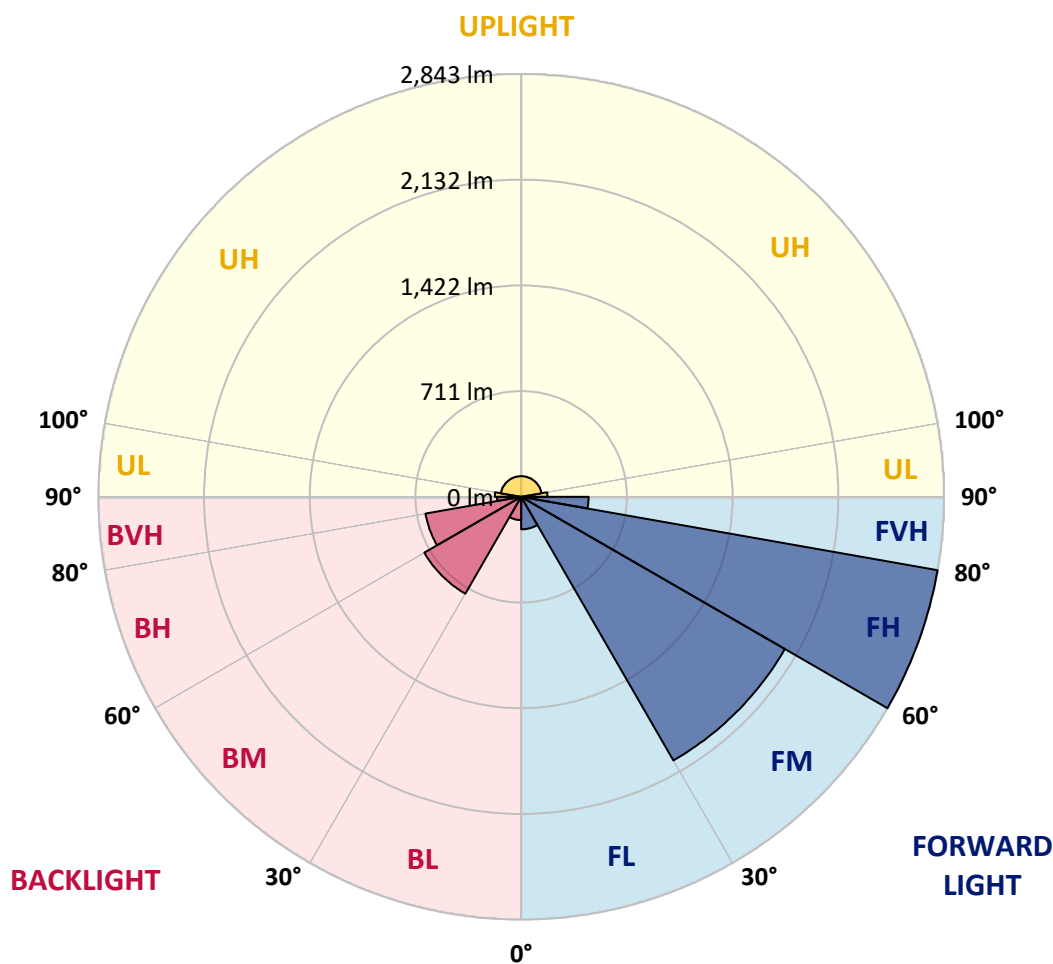
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.0	2.9			
FM	(30°-60°)	2047.1	27.0			
FH	(60°-80°)	2843.1	37.5			G2/5000
FVH	(80°-90°)	453.0	6.0			G3/500
BL	(0°-30°)	156.5	2.1	B1/500		
BM	(30°-60°)	751.8	9.9	B1/1000		
BH	(60°-80°)	653.0	8.6	B2/1000		G2/1000
BVH	(80°-90°)	161.9	2.1			G2/225
UL	(90°-100°)	177.0	2.3		U3/500	
UH	(100°-180°)	138.6	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°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	207.5	207.5	207.5	206.5	205.5	203.7	201.7	199.7	198.9	197.9	196.8
5°	228.7	229.7	228.7	227.8	224.8	222.1	218.1	215.2	211.3	209.4	208.4
7.5°	260.6	260.6	259.6	254.8	251.9	247.0	242.2	236.4	232.6	229.7	225.8
10°	301.1	299.2	297.1	292.4	285.6	277.9	272.2	265.4	258.6	256.6	252.8
12.5°	349.3	349.3	344.5	337.7	325.3	317.5	307.9	300.1	293.4	289.5	287.6
15°	414.0	411.2	402.4	391.8	376.4	360.9	350.2	344.5	337.7	337.7	331.0
17.5°	479.6	482.5	469.0	452.7	431.3	412.1	399.6	398.6	395.6	393.8	392.8
20°	565.5	562.5	546.2	518.2	487.4	464.3	455.5	456.4	464.3	463.3	459.3
22.5°	658.2	658.2	633.0	595.5	552.0	524.0	515.3	524.0	540.4	540.4	542.4
25°	768.2	764.3	732.5	675.6	623.5	586.7	582.9	596.4	625.4	630.2	628.2
27.5°	891.7	878.2	836.7	766.2	697.7	656.2	649.4	674.5	714.1	727.6	732.5
30°	1023.0	1023.9	960.3	868.5	775.8	720.9	718.1	758.5	805.8	829.0	834.7
32.5°	1174.4	1169.6	1096.3	981.4	861.8	790.4	787.4	843.5	903.2	933.2	937.1
35°	1362.7	1340.5	1258.4	1107.9	950.5	869.4	867.6	928.3	1006.6	1044.2	1053.8
37.5°	1535.4	1523.8	1430.2	1239.1	1051.9	949.6	945.7	1024.9	1117.5	1161.0	1174.4
40°	1737.1	1723.6	1613.5	1395.5	1172.6	1042.3	1040.3	1130.1	1237.3	1292.2	1303.8
42.5°	1935.0	1926.2	1807.5	1569.2	1299.9	1146.4	1142.7	1246.8	1373.3	1435.0	1449.6
45°	2147.3	2125.1	2010.3	1746.7	1441.7	1267.1	1269.0	1381.9	1538.3	1610.7	1625.1
47.5°	2328.7	2315.2	2218.6	1938.8	1598.1	1398.4	1401.2	1551.8	1741.9	1825.8	1832.6
50°	2526.5	2518.8	2423.3	2142.5	1786.3	1561.5	1566.2	1736.1	1965.8	2062.3	2096.1
52.5°	2690.6	2691.5	2619.2	2351.8	1971.6	1737.1	1751.5	1956.2	2209.0	2338.3	2358.6
55°	2850.8	2845.9	2803.5	2581.5	2191.6	1934.0	1950.4	2199.4	2499.6	2655.9	2682.9
57.5°	2966.6	2979.2	2984.0	2801.5	2404.9	2131.7	2185.8	2452.3	2816.0	2984.0	3008.1
60°	3046.7	3052.4	3120.0	3022.5	2635.6	2365.4	2435.8	2733.0	3113.3	3289.9	3305.3
62.5°	3038.9	3064.0	3195.3	3188.5	2859.5	2587.3	2677.1	2996.6	3371.8	3559.1	3562.0
65°	2935.7	2977.2	3197.3	3293.7	3044.7	2797.7	2913.5	3233.8	3584.2	3732.9	3694.3
67°	2786.1	2817.9	3100.7	3300.5	3145.1	2927.9	3074.7	3380.6	3668.2	3779.2	3685.6
67.5°	2723.4	2780.3	3065.0	3293.7	3155.7	2956.0	3100.7	3419.2	3685.6	3764.6	3664.3
70°	2421.3	2465.8	2785.1	3155.7	3159.6	3040.9	3208.8	3465.4	3619.9	3602.5	3421.1
72.5°	2012.1	2032.4	2382.7	2851.7	3014.8	3007.2	3176.9	3345.8	3343.9	3229.0	3009.0
75°	1524.8	1578.8	1894.4	2394.3	2712.8	2818.9	2973.4	3029.3	2896.1	2703.1	2436.8
77.5°	1075.9	1104.1	1382.9	1882.9	2293.0	2490.8	2599.9	2573.8	2328.7	2100.9	1859.7
80°	696.7	723.9	915.8	1349.2	1797.9	2009.3	2108.6	2031.4	1784.4	1517.1	1314.4
82.5°	421.7	444.9	579.9	905.2	1321.2	1557.6	1607.7	1533.5	1258.4	1036.5	877.3
85°	247.0	265.4	360.0	583.9	900.4	1124.3	1142.7	1057.7	845.3	692.9	584.9
87.5°	150.6	160.2	227.8	373.4	597.3	758.5	796.2	717.1	569.4	463.3	393.8
90°	97.5	104.3	145.8	245.2	391.8	500.9	524.0	478.7	386.0	315.5	271.2
92.5°	66.5	73.3	101.3	164.1	257.7	331.9	346.5	314.5	259.6	222.1	197.9
95°	51.2	54.1	77.2	115.9	175.7	222.1	235.5	214.2	181.5	163.2	148.6
97.5°	41.5	43.3	61.7	89.7	127.4	159.2	165.0	149.5	134.2	122.6	115.9
100°	35.7	36.7	52.1	73.3	99.4	120.6	123.6	112.0	101.3	95.5	89.7
102.5°	31.8	32.8	45.4	62.8	81.1	95.5	95.5	86.9	77.2	73.3	70.5
105°	28.0	29.0	40.5	54.1	69.5	78.1	78.1	68.5	59.9	55.9	54.9
107.5°	25.1	26.0	34.8	47.3	58.9	65.7	64.7	54.9	45.4	41.5	41.5



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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	41.5	50.1	55.9	53.1	44.4	34.8	31.8	32.8
112.5°	21.2	21.2	27.0	35.7	44.4	48.3	44.4	36.7	27.0	25.1	26.0
115°	20.2	20.2	24.1	31.8	38.6	40.5	37.5	29.9	22.2	20.2	21.2
117.5°	18.3	18.3	22.2	28.0	32.8	34.8	31.8	24.1	18.3	17.4	18.3
120°	17.4	17.4	19.3	24.1	29.0	29.9	27.0	20.2	15.4	15.4	16.4
122.5°	16.4	16.4	18.3	21.2	25.1	26.0	23.2	16.4	13.5	13.5	14.4
125°	16.4	16.4	16.4	19.3	21.2	22.2	19.3	14.4	12.6	12.6	13.5
127.5°	15.4	15.4	15.4	16.4	18.3	18.3	16.4	11.6	10.6	11.6	11.6
130°	14.4	14.4	14.4	15.4	16.4	15.4	13.5	9.7	9.7	10.6	10.6
132.5°	13.5	13.5	13.5	13.5	13.5	12.6	10.6	8.6	8.6	9.7	9.7
135°	12.6	12.6	12.6	11.6	11.6	10.6	8.6	6.8	7.7	8.6	8.6
137.5°	11.6	11.6	11.6	10.6	9.7	7.7	5.8	5.8	6.8	7.7	7.7
140°	10.6	10.6	9.7	8.6	7.7	5.8	3.9	4.8	5.8	5.8	6.8
142.5°	8.6	8.6	8.6	6.8	4.8	3.9	2.8	2.8	4.8	4.8	4.8
145°	7.7	7.7	6.8	5.8	3.9	1.9	1.0	1.9	2.8	3.9	3.9
147.5°	5.8	5.8	5.8	3.9	1.9	1.0	1.0	1.0	1.9	2.8	2.8
150°	4.8	4.8	3.9	2.8	1.0	0.0	0.0	1.0	1.9	1.9	1.9
152.5°	2.8	2.8	2.8	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°	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
2.5°	195.9	194.9	193.9	192.1	191.1	189.1	187.3	186.3	185.3	185.3	185.3
5°	206.5	205.5	202.6	198.9	195.9	193.1	191.1	189.1	187.3	187.3	187.3
7.5°	223.9	222.1	216.3	212.3	207.5	203.7	200.7	197.9	196.8	196.8	195.9
10°	249.0	246.1	239.4	231.6	224.8	220.0	216.3	213.3	212.3	212.3	212.3
12.5°	281.8	277.9	267.3	257.7	247.0	240.3	235.5	234.5	235.5	235.5	234.5
15°	329.1	321.3	305.0	289.5	273.1	262.4	259.6	259.6	264.4	266.4	267.3
17.5°	386.0	376.4	354.2	329.1	304.0	289.5	287.6	293.4	304.0	308.7	307.9
20°	456.4	442.9	412.1	374.4	339.7	321.3	319.5	330.1	344.5	354.2	353.2
22.5°	535.6	523.1	476.7	421.7	373.4	352.3	349.3	366.7	388.0	398.6	402.4
25°	623.5	606.1	545.2	470.1	409.1	379.2	378.2	399.6	427.5	446.9	449.7
27.5°	718.9	698.7	618.6	518.2	440.1	401.4	400.6	429.5	468.0	492.2	493.2
30°	824.2	793.2	690.9	558.8	463.3	417.0	418.8	452.7	501.8	529.8	534.6
32.5°	928.3	893.6	756.6	598.3	478.7	424.6	427.5	470.1	524.0	559.7	563.6
35°	1038.4	994.0	822.1	624.4	487.4	425.6	428.6	476.7	535.6	574.1	578.1
37.5°	1149.4	1096.3	877.3	643.6	487.4	419.8	423.7	474.8	534.6	574.1	577.1
40°	1280.6	1203.4	929.4	651.4	479.6	409.1	414.0	464.3	520.2	556.7	559.7
42.5°	1416.6	1324.0	978.5	649.4	466.1	395.6	400.6	446.9	496.0	526.0	528.9
45°	1580.8	1467.9	1028.7	643.6	449.7	381.2	384.0	425.6	467.1	488.3	492.2
47.5°	1782.4	1622.3	1079.9	633.0	431.3	367.6	369.7	406.3	436.2	449.7	452.7
50°	2006.3	1804.6	1135.9	618.6	414.0	355.1	358.1	388.0	409.1	414.9	415.9
52.5°	2271.7	2011.1	1187.9	601.3	398.6	345.5	349.3	376.4	390.8	391.8	392.8
55°	2558.3	2237.0	1234.3	579.9	383.2	338.7	346.5	371.6	381.2	380.2	381.2
57.5°	2857.5	2454.2	1266.1	557.8	370.6	334.9	347.5	371.6	381.2	379.2	381.2
60°	3124.9	2640.4	1271.0	528.9	360.9	334.9	353.2	378.2	387.0	387.0	389.0
62.5°	3314.9	2747.6	1239.1	499.9	352.3	336.8	360.9	387.0	395.6	395.6	397.6
65°	3392.2	2745.5	1169.6	469.0	345.5	339.7	368.6	396.6	403.3	403.3	405.4
67°	3334.3	2655.9	1079.9	445.9	341.7	342.6	374.4	402.4	408.2	407.2	408.2
67.5°	3298.5	2624.0	1060.6	439.1	340.7	342.6	375.5	403.3	409.1	408.2	408.2
70°	3003.2	2352.8	927.4	410.2	333.9	342.6	379.2	405.4	409.1	407.2	407.2
72.5°	2546.8	1968.8	777.8	381.2	326.1	339.7	377.4	402.4	404.4	401.4	401.4
75°	2025.6	1540.2	638.8	356.0	315.5	332.9	370.6	393.8	396.6	393.8	390.8
77.5°	1499.7	1140.6	516.2	329.1	302.9	322.4	359.0	381.2	384.0	381.2	378.2
80°	1046.1	810.6	415.9	302.1	286.6	306.9	342.6	361.8	365.8	363.9	359.0
82.5°	699.7	556.7	332.9	272.2	265.4	286.6	320.3	337.7	340.7	338.7	332.9
85°	477.7	388.0	275.0	240.3	242.2	262.4	291.4	305.0	307.9	305.0	299.2
87.5°	321.3	277.9	224.8	209.4	215.2	234.5	257.7	264.4	270.2	265.4	261.5
90°	232.6	209.4	181.5	178.5	188.2	204.7	220.0	221.0	228.7	226.8	219.1
92.5°	174.7	164.1	150.6	150.6	161.1	174.7	184.3	182.4	187.3	187.3	181.5
95°	138.0	132.2	125.4	128.4	138.0	147.6	150.6	146.7	151.6	152.5	150.6
97.5°	111.0	109.0	107.1	109.0	117.8	125.4	124.4	117.8	121.6	123.6	121.6
100°	89.7	88.8	89.7	93.6	100.4	105.2	102.2	95.5	98.5	98.5	98.5
102.5°	72.3	72.3	75.3	79.1	83.9	87.9	83.9	78.1	79.1	78.1	78.1
105°	57.0	57.9	61.7	66.5	70.5	72.3	68.5	62.8	61.7	58.9	59.9
107.5°	44.4	46.3	50.1	54.9	58.9	59.9	57.0	51.2	47.3	45.4	45.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	34.8	36.7	41.5	45.4	48.3	49.1	46.3	40.5	35.7	34.8	34.8
112.5°	28.0	29.9	33.8	37.5	40.5	40.5	37.5	32.8	27.0	26.0	26.0
115°	23.2	24.1	28.0	30.9	33.8	33.8	30.9	26.0	21.2	20.2	21.2
117.5°	19.3	20.2	23.2	26.0	28.0	28.0	25.1	20.2	16.4	16.4	16.4
120°	17.4	18.3	20.2	22.2	23.2	23.2	21.2	16.4	13.5	13.5	13.5
122.5°	15.4	15.4	17.4	18.3	20.2	19.3	17.4	13.5	10.6	11.6	11.6
125°	13.5	14.4	14.4	16.4	16.4	16.4	13.5	10.6	9.7	9.7	9.7
127.5°	12.6	12.6	13.5	13.5	14.4	13.5	10.6	7.7	7.7	8.6	8.6
130°	11.6	11.6	11.6	11.6	11.6	10.6	8.6	6.8	6.8	7.7	7.7
132.5°	9.7	10.6	10.6	9.7	9.7	8.6	6.8	4.8	5.8	5.8	5.8
135°	8.6	9.7	8.6	8.6	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	2.8	3.9	3.9	3.9
140°	6.8	6.8	6.8	5.8	4.8	3.9	1.9	1.9	2.8	2.8	2.8
142.5°	4.8	5.8	4.8	3.9	2.8	1.9	1.0	1.0	1.9	2.8	1.9
145°	3.9	3.9	3.9	2.8	1.9	1.0	0.0	0.0	1.0	1.0	1.0
147.5°	2.8	2.8	2.8	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)