

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: P240582

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
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-T2U-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6512.9 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - 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



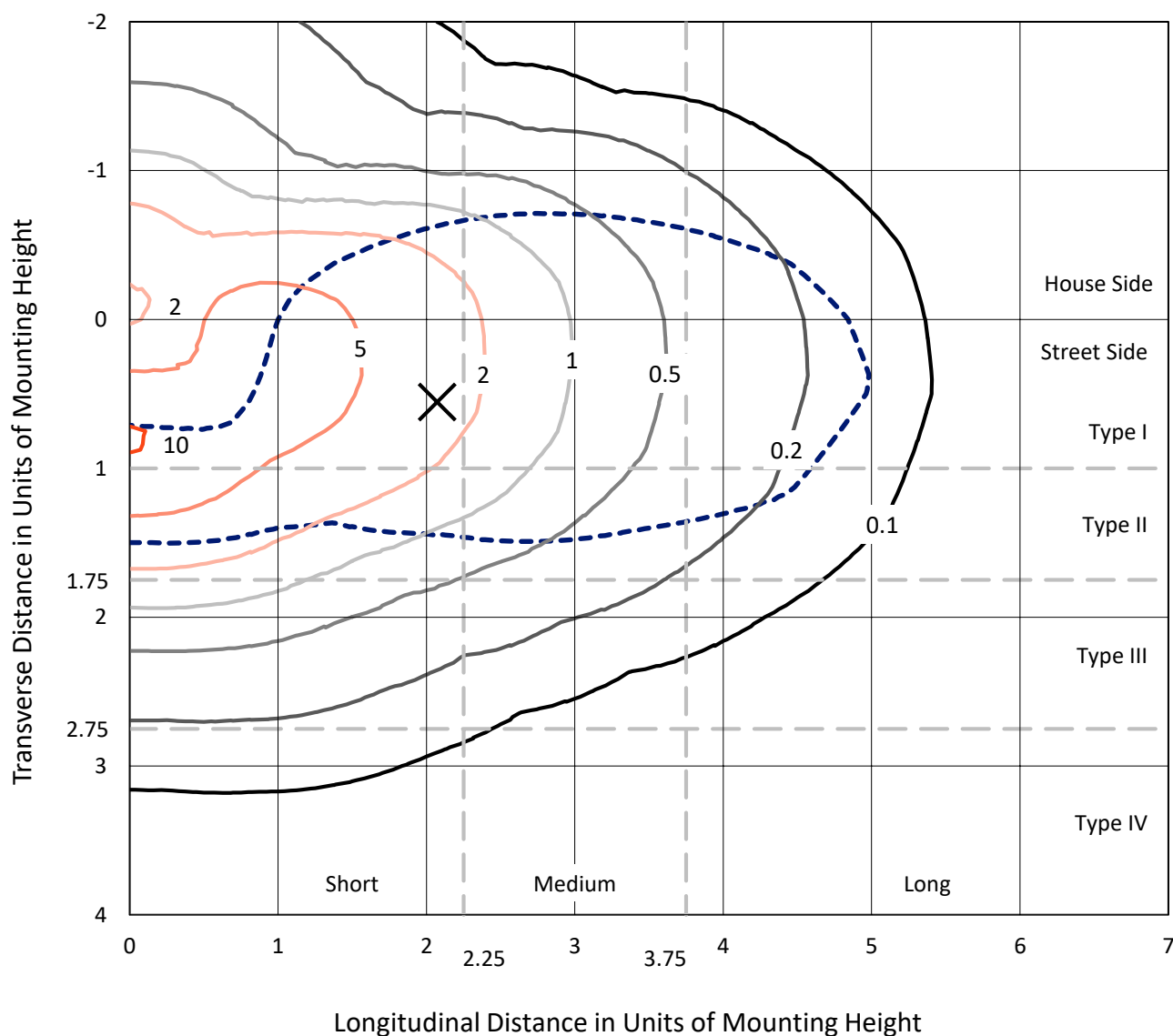
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

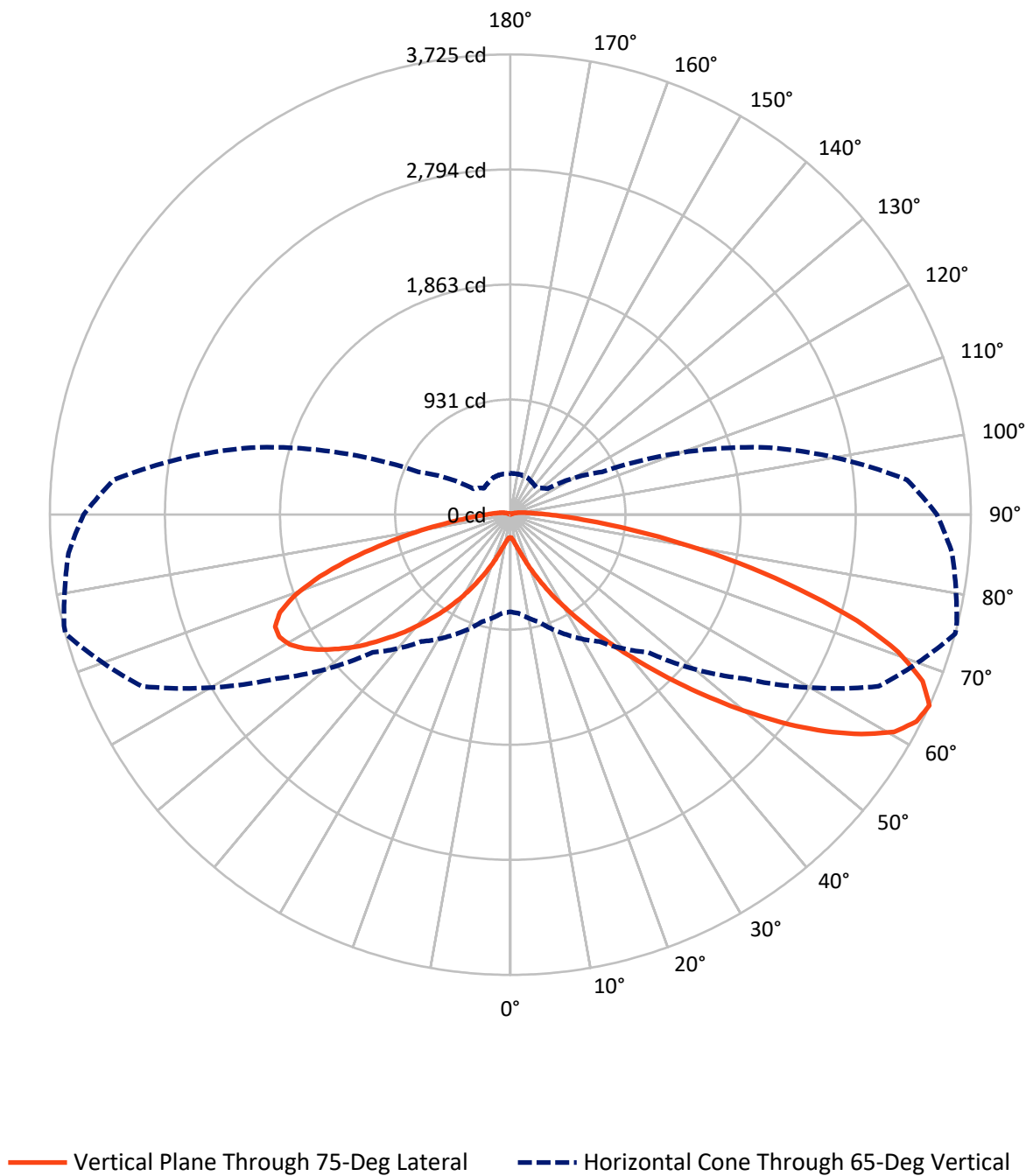


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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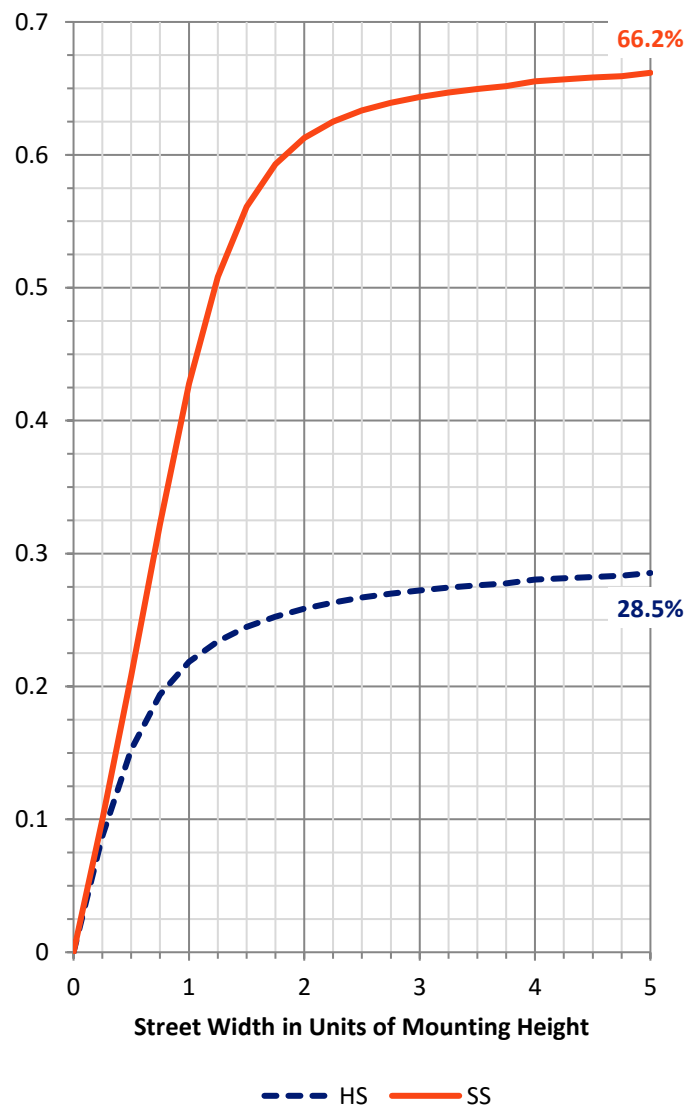
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1923.0	115.3	2038.4
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	4370.8	103.8	4474.6
	% Fixture	67.1	1.6	68.7
Total	Lumens	6293.9	219.1	6512.9
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	0.3
10°-20°	94.2	1.4
20°-30°	274.6	4.2
30°-40°	616.0	9.5
40°-50°	1096.3	16.8
50°-60°	1489.8	22.9
60°-70°	1446.8	22.2
70°-80°	911.9	14.0
80°-90°	343.9	5.3
90°-100°	117.1	1.8
100°-110°	53.0	0.8
110°-120°	25.5	0.4
120°-130°	13.4	0.2
130°-140°	7.0	0.1
140°-150°	2.6	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6293.9	96.6
0°-180°	6512.9	100.0

Coefficient of Utilization



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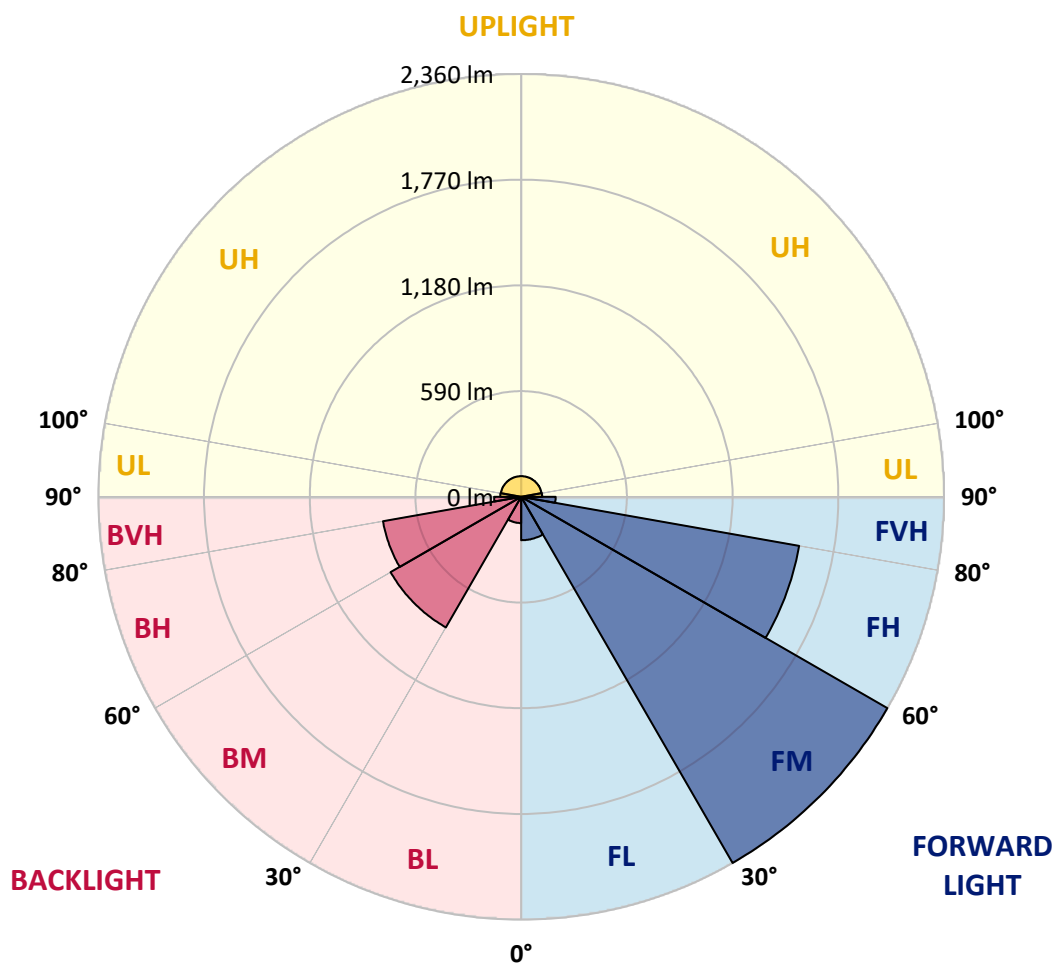
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.5	3.7			
FM	(30°-60°)	2360.3	36.2			
FH	(60°-80°)	1575.5	24.2			G1/1800
FVH	(80°-90°)	192.5	3.0			G2/225
BL	(0°-30°)	146.7	2.3	B1/500		
BM	(30°-60°)	841.8	12.9	B1/1000		
BH	(60°-80°)	783.2	12.0	B2/1000		G2/1000
BVH	(80°-90°)	151.4	2.3			G2/225
UL	(90°-100°)	117.1	1.8		U3/500	
UH	(100°-180°)	115.3	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2
2.5°	201.5	200.7	200.7	200.7	199.1	197.4	194.9	193.3	190.8	190.0	189.2
5°	222.7	222.7	221.9	221.0	219.4	215.3	211.3	208.0	203.9	203.1	199.8
7.5°	256.1	255.3	254.5	250.4	248.0	242.2	235.8	230.9	223.6	223.6	218.6
10°	300.1	298.5	296.1	292.0	283.1	275.7	268.3	259.4	252.1	251.2	243.8
12.5°	352.4	352.4	349.1	341.0	329.5	318.9	306.7	296.8	287.2	286.3	279.8
15°	424.2	425.0	414.3	402.2	385.8	369.6	354.0	345.0	333.6	336.1	327.1
17.5°	513.1	511.5	502.5	478.0	451.0	429.8	411.9	402.2	393.2	394.0	387.5
20°	624.9	623.3	607.7	575.0	531.0	499.2	478.0	471.5	466.5	464.2	457.6
22.5°	762.6	754.6	723.6	681.1	628.0	582.4	559.5	549.8	548.2	548.9	542.5
25°	916.8	913.5	874.4	806.7	738.1	679.5	644.4	642.8	645.1	641.2	641.2
27.5°	1104.4	1095.5	1049.8	956.0	858.1	788.0	747.2	743.1	754.6	751.2	746.4
30°	1323.9	1310.0	1248.0	1128.1	1002.5	908.7	861.4	861.4	873.6	873.6	872.0
32.5°	1553.0	1550.6	1454.4	1314.1	1165.6	1041.6	1000.9	994.3	1006.5	1013.1	1004.9
35°	1810.9	1792.1	1681.1	1522.1	1330.3	1194.2	1143.6	1152.5	1162.3	1163.2	1150.1
37.5°	2073.4	2054.7	1927.5	1730.8	1507.3	1360.6	1308.4	1314.8	1330.3	1330.3	1313.3
40°	2298.6	2278.2	2153.4	1948.6	1703.2	1545.7	1490.3	1509.0	1519.6	1523.7	1496.0
42.5°	2476.4	2461.7	2349.9	2141.2	1891.6	1731.6	1695.8	1726.9	1737.4	1745.5	1705.5
45°	2575.9	2563.7	2486.2	2297.7	2049.8	1917.6	1924.2	1961.7	1982.1	1973.1	1929.8
47.5°	2591.4	2581.6	2538.4	2394.9	2195.0	2096.2	2158.3	2214.5	2245.6	2246.4	2172.9
50°	2495.2	2499.2	2500.1	2417.7	2276.5	2241.5	2376.9	2503.3	2526.9	2513.9	2427.4
52.5°	2308.3	2305.9	2353.2	2353.2	2291.2	2331.3	2560.4	2786.3	2819.0	2815.7	2695.9
55°	2031.0	2033.6	2121.6	2190.8	2213.7	2349.9	2710.5	3042.5	3096.3	3091.4	2959.3
57.5°	1686.0	1709.7	1818.2	1951.2	2054.7	2270.1	2779.9	3262.7	3350.8	3351.6	3191.8
60°	1350.8	1375.2	1501.7	1672.1	1822.2	2116.0	2733.3	3376.8	3570.3	3561.3	3391.6
62.5°	1031.9	1057.1	1178.7	1372.9	1547.3	1869.5	2575.1	3400.5	3686.9	3681.2	3535.2
65°	785.5	801.9	899.6	1070.2	1253.8	1575.1	2314.8	3288.0	3725.2	3721.2	3588.2
67.5°	587.3	594.6	687.6	825.5	984.5	1274.1	1955.2	3017.2	3598.0	3602.1	3527.8
70°	451.9	456.8	524.5	644.4	762.6	995.9	1584.0	2626.5	3330.4	3341.0	3338.5
72.5°	358.9	366.2	420.1	507.4	592.9	754.6	1225.2	2124.9	2934.0	2956.0	3022.1
75°	296.1	304.3	345.0	409.5	471.5	574.2	890.7	1630.5	2412.0	2458.5	2605.3
77.5°	244.7	252.8	287.2	337.7	376.1	438.7	652.5	1205.5	1894.8	1914.4	2108.4
80°	200.7	208.0	239.0	278.2	305.9	342.6	475.5	846.6	1381.8	1406.2	1595.5
82.5°	159.8	166.4	194.9	226.7	249.5	274.9	352.4	579.9	962.5	980.5	1105.2
85°	123.1	129.7	154.2	181.9	201.5	221.9	270.0	403.7	637.1	658.3	749.6
87.5°	92.3	97.9	118.3	141.9	162.4	179.4	208.0	278.9	425.0	442.9	486.1
90°	67.7	71.8	89.7	107.6	126.4	145.2	163.2	203.9	283.1	290.4	320.5
92.5°	50.6	53.0	67.7	83.1	101.2	117.5	128.9	150.1	199.1	199.8	221.0
95°	37.4	40.0	52.2	65.2	80.8	96.2	106.1	116.7	146.0	148.5	161.4
97.5°	30.1	31.0	41.6	53.0	66.1	79.1	87.3	93.0	111.8	114.1	123.1
100°	25.2	26.1	35.1	44.9	56.3	67.7	73.4	75.8	88.1	90.5	97.0
102.5°	22.1	22.1	30.1	39.2	48.9	57.2	61.1	62.9	71.0	71.0	75.8
105°	19.5	19.5	26.1	34.3	42.4	49.7	52.2	52.2	55.5	56.3	58.8
107.5°	17.9	17.9	23.7	31.0	37.4	43.2	44.9	43.2	44.0	44.0	45.7
110°	16.3	16.3	20.4	27.8	33.5	37.4	38.4	36.7	34.3	34.3	35.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	14.6	15.6	18.8	24.5	29.4	33.5	33.5	31.0	26.9	26.9	28.5
115°	13.8	13.8	17.2	22.1	26.1	29.4	29.4	26.1	22.1	21.2	22.8
117.5°	13.0	13.0	14.6	19.5	23.7	26.1	26.1	22.1	17.9	17.9	19.5
120°	12.2	12.2	13.8	17.9	21.2	23.7	22.8	19.5	15.6	15.6	17.2
122.5°	12.2	12.2	13.0	16.3	18.8	20.4	19.5	16.3	13.0	13.0	14.6
125°	11.5	11.5	12.2	14.6	17.2	18.8	17.2	13.8	12.2	12.2	13.0
127.5°	11.5	11.5	11.5	13.0	15.6	16.3	15.6	12.2	10.6	10.6	12.2
130°	10.6	10.6	11.5	12.2	13.8	14.6	13.0	10.6	9.9	9.9	11.5
132.5°	10.6	10.6	10.6	10.6	11.5	12.2	10.6	8.2	9.0	9.0	9.9
135°	9.9	9.9	9.9	9.9	10.6	10.6	9.0	7.3	8.2	8.2	9.0
137.5°	9.0	9.0	9.0	9.0	9.0	8.2	7.3	6.5	7.3	7.3	8.2
140°	8.2	8.2	8.2	7.3	6.5	6.5	5.7	4.9	5.7	5.7	6.5
142.5°	7.3	7.3	7.3	6.5	5.7	4.9	4.1	4.1	4.9	4.9	5.7
145°	6.5	6.5	5.7	4.9	4.1	3.3	2.4	3.3	4.1	4.1	4.9
147.5°	4.9	4.9	4.9	4.1	2.4	1.6	1.6	2.4	3.3	3.3	3.3
150°	4.1	4.1	4.1	3.3	1.6	0.8	0.8	1.6	1.6	1.6	2.4
152.5°	2.4	2.4	2.4	2.4	0.8	0.0	0.0	0.8	1.6	1.6	1.6
155°	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8
160°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0
162.5°	0.0	0.0	0.0	0.8	0.8	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°	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2
2.5°	188.5	187.6	186.0	184.3	182.7	181.1	179.4	178.6	177.0	177.0	177.0
5°	198.2	195.8	192.6	189.2	186.0	183.5	181.1	178.6	177.0	176.2	175.4
7.5°	216.2	212.9	207.1	202.2	196.5	191.6	187.6	184.3	182.7	181.9	181.9
10°	240.6	236.5	229.2	219.4	212.9	205.5	199.1	194.9	191.6	190.8	190.0
12.5°	273.2	269.3	257.0	246.4	234.2	222.7	215.3	210.5	208.0	207.1	207.1
15°	319.7	314.8	295.3	277.3	257.8	243.8	234.2	230.0	230.9	233.3	230.9
17.5°	377.7	370.3	347.5	318.2	288.8	267.5	258.6	259.4	262.7	265.1	264.3
20°	449.5	438.7	407.0	365.5	325.5	296.8	287.9	288.8	292.9	300.1	299.4
22.5°	533.4	517.2	476.4	420.1	363.9	331.2	314.8	317.3	326.2	333.6	333.6
25°	625.6	611.0	553.1	478.0	407.9	359.7	339.4	342.6	355.6	363.9	366.2
27.5°	734.9	712.1	640.3	542.5	449.5	385.0	359.7	361.3	377.7	388.3	389.9
30°	851.5	824.7	734.9	606.8	486.1	404.6	371.9	375.2	393.2	405.4	407.9
32.5°	982.9	951.1	833.6	674.5	520.4	415.9	378.5	381.8	400.6	414.3	415.9
35°	1128.8	1082.4	939.6	736.5	543.2	420.1	378.5	382.5	400.6	414.3	416.9
37.5°	1277.4	1225.2	1043.2	796.1	557.1	416.9	372.8	377.7	394.0	407.0	409.5
40°	1450.3	1383.4	1156.6	845.0	562.0	407.9	363.0	368.6	382.5	393.2	394.8
42.5°	1647.6	1553.0	1275.7	886.6	554.7	396.4	353.2	359.7	371.2	378.5	379.2
45°	1852.4	1738.2	1391.5	919.3	544.1	382.5	343.4	350.7	360.5	362.2	363.9
47.5°	2073.4	1946.2	1517.9	938.9	525.3	367.8	336.1	343.4	349.9	349.1	349.9
50°	2318.2	2161.5	1646.9	947.0	504.1	355.6	330.4	338.4	343.4	339.4	339.4
52.5°	2557.1	2397.2	1764.3	950.2	480.4	344.1	326.2	336.1	338.4	334.5	334.5
55°	2811.7	2615.1	1881.8	941.3	456.8	335.2	324.6	335.2	336.8	331.2	331.2
57.5°	3046.5	2847.6	1987.9	927.4	434.8	327.1	322.2	334.5	336.1	331.2	331.9
60°	3262.7	3044.9	2070.3	904.5	411.2	318.9	320.5	334.5	336.1	332.8	334.5
62.5°	3394.9	3175.4	2113.4	868.7	388.3	311.6	318.2	332.8	336.1	333.6	335.2
65°	3451.9	3221.9	2107.7	817.3	366.2	302.6	313.2	329.5	333.6	333.6	335.2
67.5°	3408.8	3179.6	2024.5	751.2	345.8	293.7	306.7	323.0	328.8	330.4	332.8
70°	3248.1	3004.2	1857.3	668.0	323.9	283.8	298.5	314.0	320.5	323.9	325.5
72.5°	2927.5	2709.7	1620.0	584.9	301.0	271.6	286.3	301.0	308.3	312.4	312.4
75°	2520.5	2302.6	1333.6	496.8	279.8	257.8	271.6	283.8	292.0	296.1	294.5
77.5°	2027.8	1824.6	1035.9	407.0	257.0	241.5	254.5	265.1	271.6	274.9	270.9
80°	1502.6	1372.9	778.2	336.1	234.2	222.7	233.3	242.2	249.5	248.8	245.5
82.5°	1065.3	942.9	544.8	278.9	211.3	202.2	210.5	216.2	221.0	219.4	213.7
85°	709.6	629.7	385.0	227.6	187.6	180.3	185.2	188.5	190.8	186.9	182.7
87.5°	461.6	411.2	277.3	187.6	162.4	157.5	159.8	160.7	161.4	157.5	152.5
90°	301.8	280.6	206.4	154.9	139.6	136.2	136.2	133.0	133.8	128.9	124.0
92.5°	212.9	199.8	160.7	127.3	119.1	116.7	115.9	111.8	110.9	106.1	102.8
95°	159.1	153.4	129.7	107.6	101.2	100.3	98.7	94.6	91.3	86.5	84.7
97.5°	124.0	121.5	106.8	92.3	87.3	85.7	84.7	80.0	77.5	72.5	71.0
100°	98.7	98.7	89.7	79.1	75.1	74.2	73.4	68.5	66.1	61.1	60.3
102.5°	79.1	80.0	75.1	68.5	65.2	63.6	62.0	58.8	54.6	51.4	51.4
105°	62.0	63.6	62.0	57.9	56.3	54.6	53.0	49.7	45.7	42.4	42.4
107.5°	48.9	50.6	50.6	49.7	47.3	46.6	45.7	41.6	38.4	35.1	35.1
110°	37.4	40.0	41.6	41.6	41.6	40.0	38.4	35.8	31.8	29.4	29.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	30.1	31.8	34.3	35.1	35.1	35.1	33.5	29.4	26.1	24.5	25.2
115°	24.5	26.1	28.5	30.1	30.1	30.1	27.8	25.2	22.1	21.2	21.2
117.5°	20.4	22.1	23.7	26.1	26.1	26.1	24.5	21.2	17.9	17.9	17.9
120°	17.9	18.8	21.2	22.1	22.8	22.8	21.2	17.9	15.6	15.6	16.3
122.5°	15.6	16.3	17.9	19.5	20.4	19.5	17.9	14.6	13.0	13.8	13.8
125°	13.8	14.6	15.6	17.2	17.9	17.2	15.6	12.2	11.5	12.2	12.2
127.5°	13.0	13.0	13.8	14.6	15.6	14.6	13.0	10.6	9.9	11.5	11.5
130°	11.5	12.2	12.2	13.0	13.0	13.0	11.5	9.0	9.0	9.9	9.9
132.5°	10.6	10.6	10.6	11.5	11.5	10.6	9.0	7.3	8.2	9.0	9.0
135°	9.0	9.9	9.9	9.9	9.9	9.0	7.3	6.5	7.3	8.2	8.2
137.5°	8.2	8.2	8.2	8.2	8.2	7.3	6.5	5.7	6.5	6.5	6.5
140°	6.5	7.3	7.3	6.5	6.5	5.7	4.9	4.1	4.9	5.7	5.7
142.5°	5.7	5.7	5.7	5.7	4.9	4.1	3.3	3.3	4.1	4.1	4.1
145°	4.9	4.9	4.9	4.1	3.3	3.3	2.4	2.4	3.3	3.3	4.1
147.5°	3.3	3.3	3.3	3.3	2.4	2.4	1.6	1.6	2.4	2.4	2.4
150°	2.4	2.4	2.4	2.4	1.6	1.6	1.6	0.8	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)