

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: P241023

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241023
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 7012.3 lumens
Efficiency: N/A
Efficacy: 94.8 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

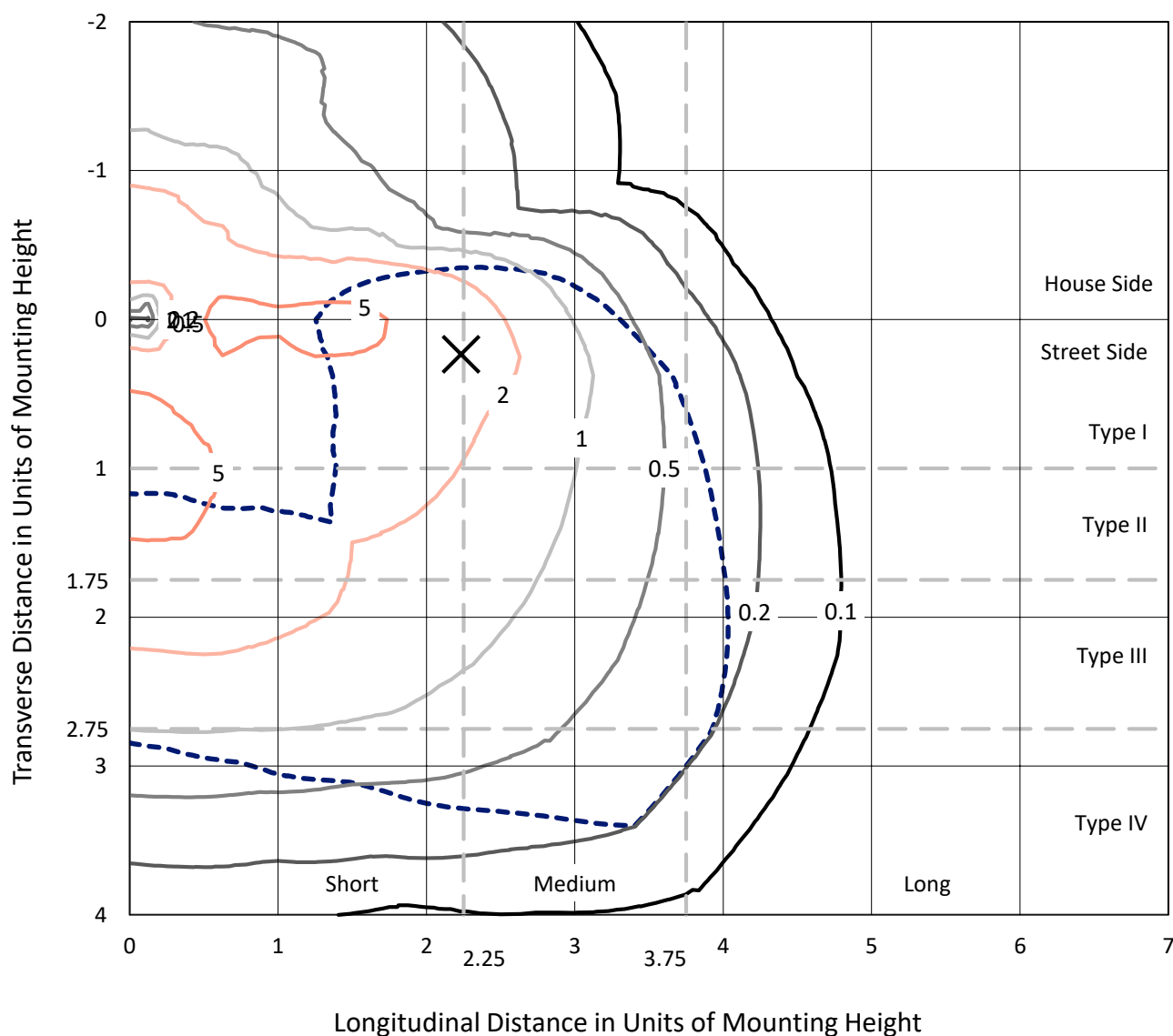


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

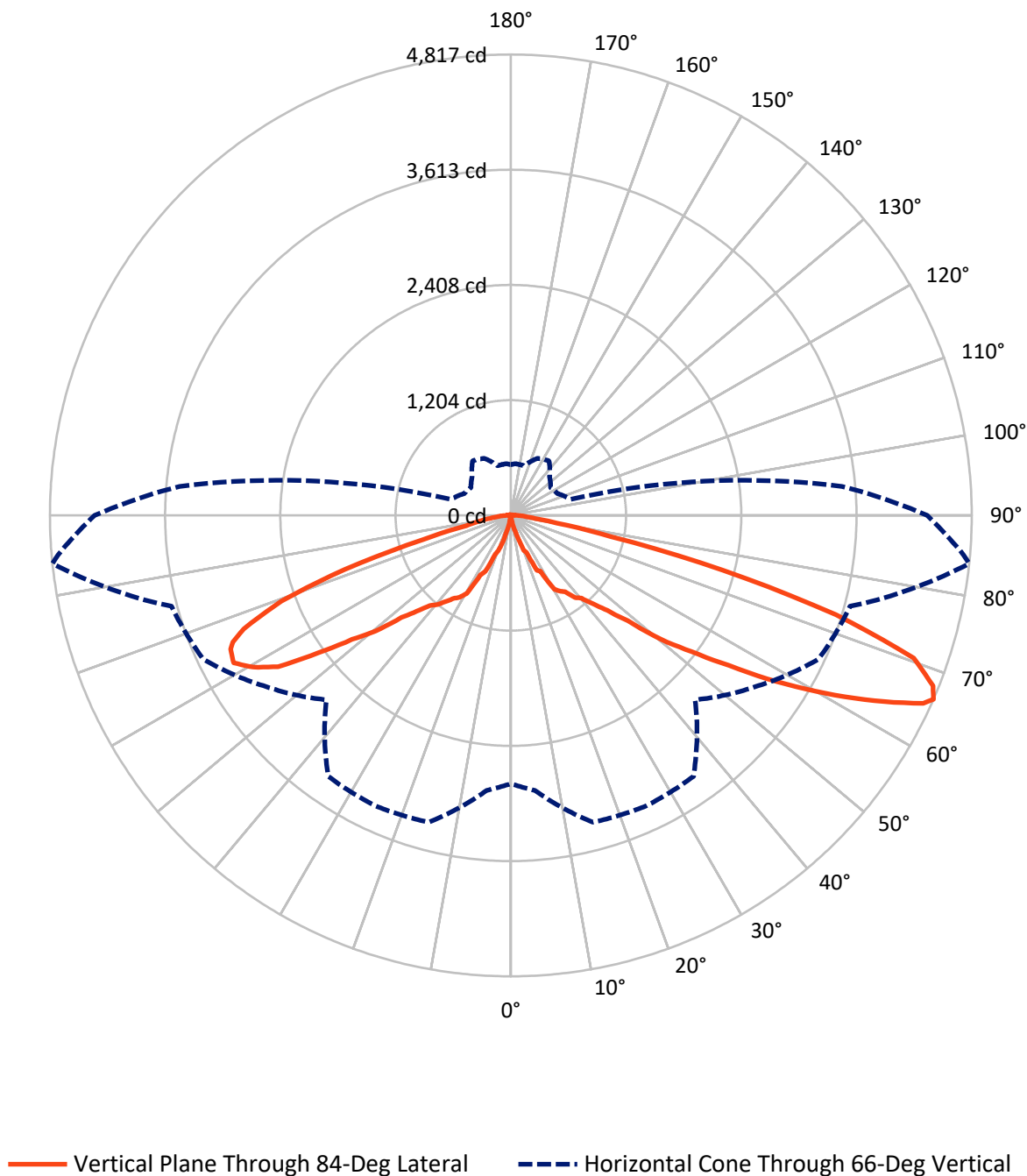


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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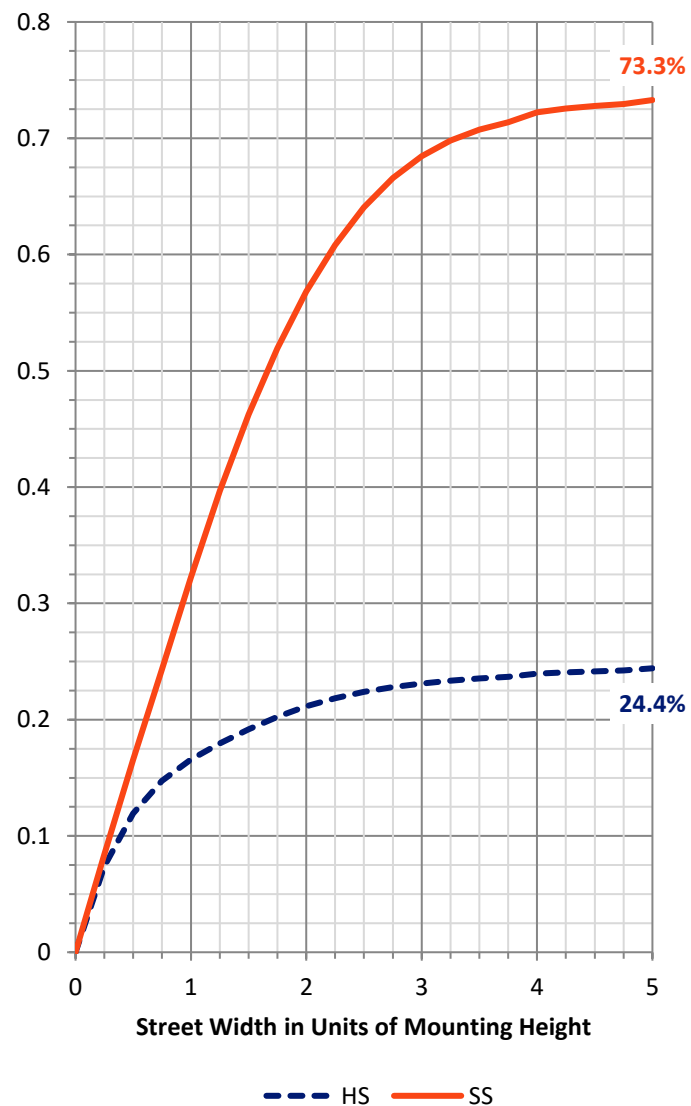
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1754.7	42.7	1797.4
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	5174.8	40.1	5214.9
	% Fixture	73.8	0.6	74.4
Total	Lumens	6929.5	82.8	7012.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	65.1	0.9
20°-30°	240.5	3.4
30°-40°	494.6	7.1
40°-50°	820.5	11.7
50°-60°	1430.8	20.4
60°-70°	2107.7	30.1
70°-80°	1538.2	21.9
80°-90°	226.9	3.2
90°-100°	42.3	0.6
100°-110°	19.3	0.3
110°-120°	9.1	0.1
120°-130°	6.3	0.1
130°-140°	3.8	0.1
140°-150°	1.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6929.5	98.8
0°-180°	7012.3	100.0

Coefficient of Utilization



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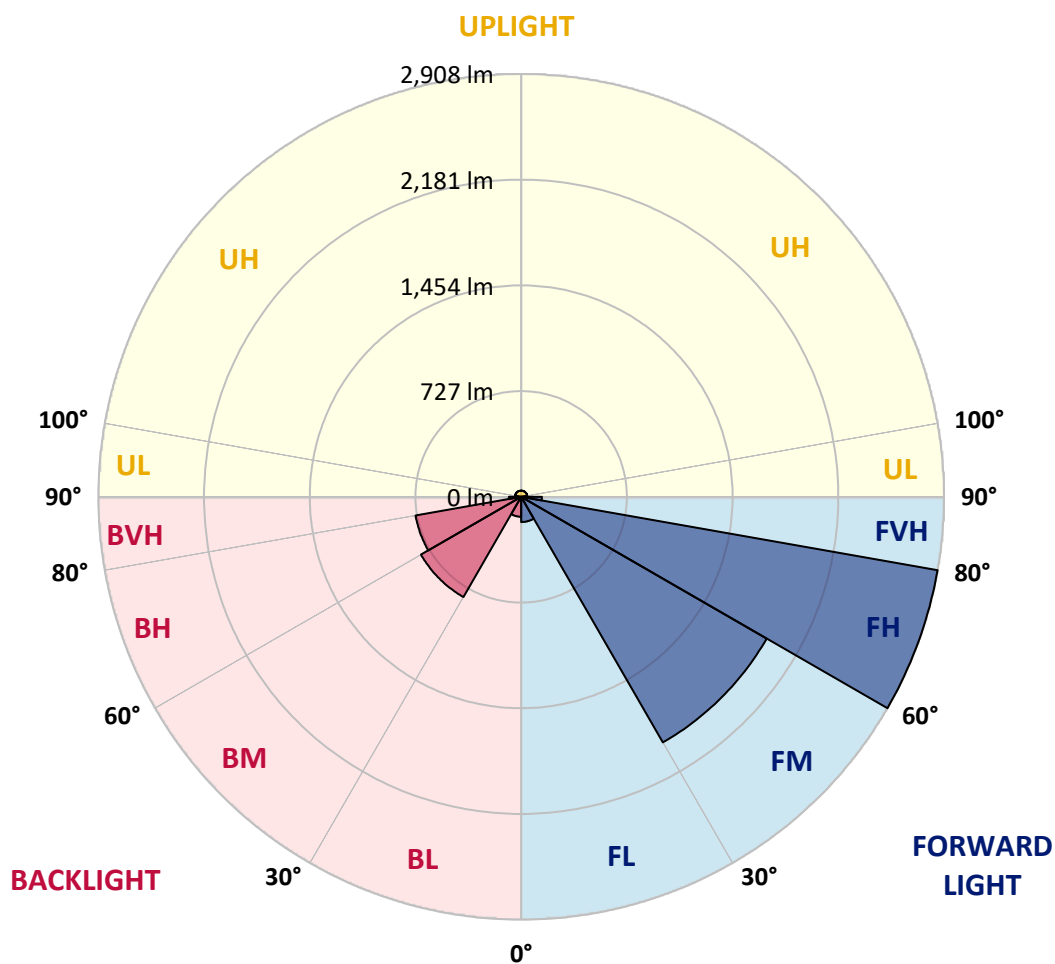
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	173.5	2.5			
FM	(30°-60°)	1950.3	27.8			
FH	(60°-80°)	2908.3	41.5			G2/5000
FVH	(80°-90°)	142.7	2.0			G2/225
BL	(0°-30°)	137.2	2.0	B1/500		
BM	(30°-60°)	795.6	11.3	B1/1000		
BH	(60°-80°)	737.6	10.5	B2/1000		G2/1000
BVH	(80°-90°)	84.2	1.2			G1/100
UL	(90°-100°)	42.3	0.6		U2/50	
UH	(100°-180°)	42.7	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	41.4	37.1	37.1	35.4	31.9	28.4	22.4	19.0	16.4	16.4	15.5
5°	79.4	83.7	96.6	88.9	73.3	95.7	43.2	28.4	18.1	15.5	15.5
7.5°	125.9	132.9	101.8	90.5	90.5	96.6	78.5	47.5	24.1	18.1	17.3
10°	263.9	249.3	173.4	175.9	149.2	104.3	71.6	63.0	37.1	29.4	26.7
12.5°	256.1	252.8	257.9	225.2	226.9	164.8	91.5	146.7	132.9	126.8	139.7
15°	330.4	326.9	262.3	267.4	242.4	251.9	212.2	211.3	204.5	171.7	164.8
17.5°	458.9	455.4	513.2	341.6	243.3	314.9	273.4	235.5	244.1	257.9	268.3
20°	458.1	452.9	477.0	409.8	414.9	325.2	291.5	428.7	391.6	393.3	370.9
22.5°	676.3	645.3	566.7	427.9	467.5	380.4	432.2	423.5	395.1	418.4	411.4
25°	656.4	668.5	641.8	633.2	476.2	545.1	475.3	489.1	603.8	634.8	635.8
27.5°	761.7	738.4	717.7	650.4	640.1	530.5	489.1	651.3	632.3	660.7	659.9
30°	908.4	900.6	895.4	722.9	692.6	584.8	659.1	665.1	767.7	897.1	923.8
32.5°	1049.9	1012.7	929.0	836.8	695.3	691.0	654.7	826.3	880.8	941.9	951.4
35°	1274.1	1273.3	1131.8	894.6	778.1	734.1	847.9	890.2	889.4	981.6	1037.7
37.5°	1465.6	1475.1	1326.7	1080.0	804.9	741.8	885.1	960.1	963.5	1088.6	1067.0
40°	1757.1	1732.2	1599.3	1289.6	919.5	791.0	970.5	981.6	1052.4	1136.1	1167.1
42.5°	1964.2	1954.7	1911.6	1534.6	1052.4	881.6	1071.3	1023.1	1114.5	1266.3	1299.1
45°	2093.6	2047.0	2089.3	1714.1	1265.5	1075.7	1093.8	1158.5	1256.0	1416.4	1508.8
47.5°	2223.8	2259.2	2160.0	1849.5	1457.0	1165.4	1203.4	1407.8	1501.8	1645.8	1704.5
50°	2449.9	2411.9	2377.3	2053.1	1752.0	1308.6	1505.3	1477.7	1741.7	2035.8	2046.1
52.5°	2587.9	2587.9	2531.8	2230.7	1955.6	1519.9	1606.2	1704.5	2097.9	2364.4	2461.0
55°	2783.7	2824.2	2813.8	2440.4	2195.4	1807.1	1870.2	2077.2	2424.0	2766.4	3005.3
57.5°	2922.6	2978.6	3100.3	2664.6	2428.3	1924.5	2255.7	2486.1	2862.2	3278.8	3567.7
60°	3128.7	3129.6	3254.6	2863.0	2722.4	2147.9	2405.0	2865.6	3102.8	3771.4	3924.0
62.5°	3149.5	3184.8	3447.0	3171.9	3015.8	2380.8	2893.2	3061.4	3373.7	4266.5	4400.2
65°	2899.2	2994.2	3433.2	3316.8	3284.0	2595.6	3036.4	3448.8	3593.6	4735.8	4697.8
66°	2803.5	2883.7	3319.4	3348.7	3328.0	2724.1	3120.1	3549.6	3670.4	4816.9	4750.5
67.5°	2769.8	2828.6	3183.0	3383.2	3477.2	2957.0	3324.5	3598.8	3811.0	4758.2	4731.5
70°	2536.1	2609.4	2942.4	3610.9	3795.6	3384.0	3587.6	3717.9	3910.2	4467.5	4351.9
72.5°	1934.0	2009.1	2254.9	2979.4	3822.3	4015.5	3995.6	3868.0	3587.6	3549.6	3364.2
75°	959.2	1039.4	1212.8	1736.5	2974.3	3944.7	3972.3	3487.5	2899.2	2289.4	2147.1
77.5°	496.0	558.9	468.4	665.1	1529.4	2798.4	2811.3	2299.7	1680.4	1069.6	998.9
80°	338.2	352.0	319.2	327.8	629.7	1430.2	1333.6	1224.1	676.3	490.8	512.4
82.5°	248.5	229.4	219.9	239.0	339.8	446.8	479.7	529.7	361.4	249.3	263.1
85°	117.3	129.4	126.8	145.8	207.0	152.7	234.7	318.3	240.7	160.4	157.8
87.5°	73.3	72.4	77.6	89.7	125.1	101.0	128.5	157.8	145.0	100.0	98.3
90°	48.3	43.2	40.5	48.3	69.9	50.0	69.0	89.7	81.9	54.3	50.9
92.5°	32.7	32.7	35.4	40.5	60.4	53.5	49.2	50.9	50.9	42.2	40.5
95°	24.1	25.9	29.4	30.2	36.2	31.1	39.7	44.0	44.8	34.5	33.7
97.5°	20.7	22.4	24.1	25.1	30.2	25.1	32.7	38.8	38.0	27.6	28.4
100°	19.0	20.7	20.7	21.6	24.1	19.0	26.7	36.2	34.5	24.1	23.3
102.5°	18.1	18.1	17.3	17.3	19.0	14.6	22.4	31.9	25.9	19.8	18.1
105°	17.3	17.3	14.6	13.8	14.6	12.1	18.1	24.1	18.1	16.4	16.4
107.5°	16.4	15.5	12.9	11.3	12.1	9.5	14.6	15.5	12.9	14.6	15.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	14.6	14.6	11.3	9.5	9.5	7.8	10.3	11.3	11.3	14.6	15.5
112.5°	13.8	12.9	9.5	7.8	7.8	6.9	7.8	8.6	9.5	13.8	14.6
115°	12.9	12.1	8.6	6.9	6.0	5.2	6.0	6.9	8.6	13.8	13.8
117.5°	12.1	11.3	7.8	6.0	5.2	4.3	5.2	6.0	8.6	13.8	13.8
120°	12.1	11.3	7.8	5.2	4.3	4.3	4.3	5.2	9.5	13.8	14.6
122.5°	11.3	11.3	7.8	5.2	4.3	3.5	3.5	5.2	8.6	12.9	12.9
125°	11.3	11.3	6.9	4.3	3.5	3.5	3.5	4.3	8.6	12.1	12.9
127.5°	10.3	10.3	6.9	4.3	3.5	2.6	2.6	4.3	7.8	12.1	12.1
130°	10.3	10.3	6.9	3.5	2.6	2.6	2.6	3.5	7.8	11.3	11.3
132.5°	8.6	8.6	6.0	3.5	2.6	1.7	2.6	3.5	6.9	9.5	10.3
135°	8.6	8.6	6.0	3.5	2.6	1.7	1.7	3.5	6.0	8.6	8.6
137.5°	7.8	7.8	5.2	3.5	2.6	1.7	1.7	2.6	5.2	7.8	7.8
140°	6.9	6.9	6.0	3.5	2.6	1.7	1.7	1.7	4.3	6.0	6.0
142.5°	6.9	6.9	5.2	3.5	1.7	0.8	0.8	1.7	3.5	4.3	4.3
145°	6.0	6.0	5.2	3.5	1.7	0.8	0.8	1.7	2.6	3.5	3.5
147.5°	6.0	6.0	5.2	2.6	0.8	0.8	0.8	1.7	2.6	3.5	3.5
150°	5.2	5.2	3.5	1.7	0.0	0.0	0.8	0.8	1.7	2.6	2.6
152.5°	3.5	3.5	2.6	0.8	0.0	0.0	0.0	0.8	1.7	1.7	1.7
155°	1.7	1.7	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°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
2.5°	15.5	15.5	15.5	15.5	15.5	15.5	14.6	14.6	14.6	14.6	14.6
5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	15.5	16.4	16.4	16.4
7.5°	16.4	16.4	15.5	14.6	15.5	17.3	25.9	59.5	87.2	107.0	106.1
10°	26.7	26.7	25.1	21.6	26.7	58.6	115.6	116.4	96.6	88.9	92.3
12.5°	141.5	125.9	107.0	88.0	86.2	104.3	98.3	137.2	153.5	164.8	163.1
15°	162.1	171.7	157.0	175.9	180.2	107.0	167.4	224.2	241.5	248.5	256.1
17.5°	267.4	295.8	211.3	200.1	201.0	213.9	226.0	237.2	242.4	239.8	240.7
20°	402.8	383.9	412.4	352.0	269.1	286.4	262.3	258.8	341.6	414.9	405.4
22.5°	411.4	444.3	406.3	371.7	411.4	291.5	361.4	383.9	395.1	404.6	416.6
25°	665.9	650.4	569.4	427.0	406.3	389.0	392.5	401.1	422.7	455.4	475.3
27.5°	707.4	703.9	629.7	575.4	433.0	486.5	402.8	484.8	523.6	558.1	565.0
30°	951.4	961.0	724.6	552.9	502.1	416.6	467.5	499.5	529.7	578.0	578.8
32.5°	1011.0	1030.8	801.4	611.6	526.2	431.3	470.1	494.3	609.0	653.9	655.6
35°	1026.5	1077.4	826.3	590.0	508.1	429.5	433.9	516.7	573.7	665.1	697.9
37.5°	1189.6	1152.5	878.1	597.8	475.3	413.2	468.4	496.0	585.7	644.4	655.6
40°	1258.5	1237.9	911.8	613.4	469.2	459.8	433.9	462.4	504.6	546.9	546.9
42.5°	1387.1	1306.0	930.8	602.1	456.3	493.4	396.0	427.9	467.5	442.5	452.9
45°	1557.9	1449.2	995.4	542.6	432.2	419.2	380.4	429.5	404.6	404.6	399.4
47.5°	1778.7	1630.4	973.8	521.9	486.5	396.8	502.1	403.7	372.7	386.5	387.3
50°	2128.0	1952.1	1040.3	508.1	461.5	389.0	429.5	389.9	389.9	399.4	396.0
52.5°	2566.3	2219.5	1068.8	507.2	436.5	452.9	426.2	466.7	403.7	437.3	433.0
55°	3040.7	2622.3	1098.1	500.3	432.2	408.9	521.0	446.8	419.2	480.5	482.2
57.5°	3642.0	3089.0	1218.8	486.5	433.9	409.8	491.7	500.3	510.7	551.2	557.2
60°	4016.3	3347.8	1111.9	512.4	429.5	467.5	571.9	558.9	527.0	677.2	699.6
62.5°	4301.9	3543.6	916.1	534.0	508.1	471.0	590.9	652.1	622.8	683.2	700.4
65°	4353.7	3526.4	700.4	534.0	501.1	548.6	709.1	650.4	554.6	560.7	553.8
66°	4350.2	3473.7	645.3	538.3	508.1	571.9	696.1	658.2	536.5	542.6	529.7
67.5°	4207.8	3307.3	560.7	532.2	556.4	587.5	684.0	614.2	515.9	517.6	504.6
70°	3660.1	2789.7	477.0	546.9	577.0	589.1	747.9	571.9	473.6	461.5	458.9
72.5°	2692.2	1978.8	446.8	544.3	585.7	571.0	630.5	470.1	408.9	384.7	382.2
75°	1513.9	1011.0	445.1	521.9	518.4	490.0	477.0	362.3	338.2	309.6	304.5
77.5°	697.9	487.3	377.0	420.1	391.6	387.3	355.4	301.9	288.2	269.1	261.4
80°	403.7	344.2	268.3	278.7	281.2	273.4	287.2	271.7	257.1	243.3	230.4
82.5°	235.5	218.2	195.8	183.7	183.7	196.7	236.4	226.0	214.8	202.7	174.2
85°	147.5	141.5	133.7	128.5	128.5	118.2	169.9	188.9	178.6	152.7	136.3
87.5°	96.6	101.0	89.7	90.5	88.0	78.5	114.8	126.8	108.7	87.2	72.4
90°	44.0	48.3	52.6	51.8	56.1	43.2	63.0	64.7	57.8	39.7	28.4
92.5°	33.7	39.7	44.0	44.0	48.3	29.4	45.7	50.9	47.5	37.1	26.7
95°	28.4	35.4	42.2	41.4	41.4	23.3	42.2	47.5	44.8	31.9	23.3
97.5°	23.3	28.4	34.5	34.5	38.0	19.8	38.8	45.7	43.2	31.9	22.4
100°	21.6	25.9	30.2	31.1	34.5	15.5	35.4	43.2	38.8	26.7	21.6
102.5°	19.8	21.6	25.1	25.1	25.9	13.8	28.4	35.4	31.1	20.7	20.7
105°	18.1	18.1	18.1	16.4	16.4	11.3	17.3	24.1	19.0	16.4	18.1
107.5°	17.3	16.4	13.8	12.9	12.1	9.5	12.1	14.6	11.3	14.6	16.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	16.4	16.4	12.9	11.3	10.3	8.6	10.3	9.5	9.5	14.6	15.5
112.5°	16.4	15.5	11.3	9.5	8.6	7.8	8.6	6.9	8.6	14.6	15.5
115°	15.5	15.5	10.3	8.6	8.6	6.9	6.9	6.0	7.8	13.8	15.5
117.5°	15.5	15.5	10.3	7.8	6.9	6.0	6.0	6.0	7.8	13.8	15.5
120°	15.5	14.6	10.3	7.8	6.0	5.2	5.2	5.2	7.8	13.8	14.6
122.5°	14.6	13.8	9.5	6.9	6.0	5.2	4.3	5.2	7.8	12.9	13.8
125°	13.8	13.8	9.5	6.0	5.2	4.3	3.5	4.3	7.8	12.9	13.8
127.5°	13.8	12.9	8.6	5.2	4.3	4.3	3.5	4.3	7.8	12.1	12.9
130°	12.1	12.1	7.8	5.2	3.5	3.5	2.6	3.5	7.8	12.1	12.1
132.5°	11.3	10.3	6.9	4.3	3.5	2.6	2.6	2.6	6.9	10.3	11.3
135°	9.5	8.6	6.0	3.5	2.6	2.6	1.7	2.6	6.0	9.5	9.5
137.5°	7.8	7.8	6.0	3.5	2.6	1.7	1.7	2.6	6.0	8.6	9.5
140°	6.9	6.0	4.3	2.6	1.7	1.7	1.7	2.6	5.2	6.9	7.8
142.5°	5.2	5.2	3.5	2.6	1.7	1.7	0.8	1.7	4.3	6.0	6.0
145°	4.3	4.3	3.5	1.7	1.7	0.8	0.8	0.8	3.5	4.3	5.2
147.5°	3.5	3.5	2.6	1.7	0.8	0.8	0.0	0.8	2.6	3.5	3.5
150°	2.6	2.6	2.6	1.7	0.8	0.0	0.0	0.0	0.8	1.7	1.7
152.5°	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	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)