

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: P241134

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-T2U-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8308.5 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - 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



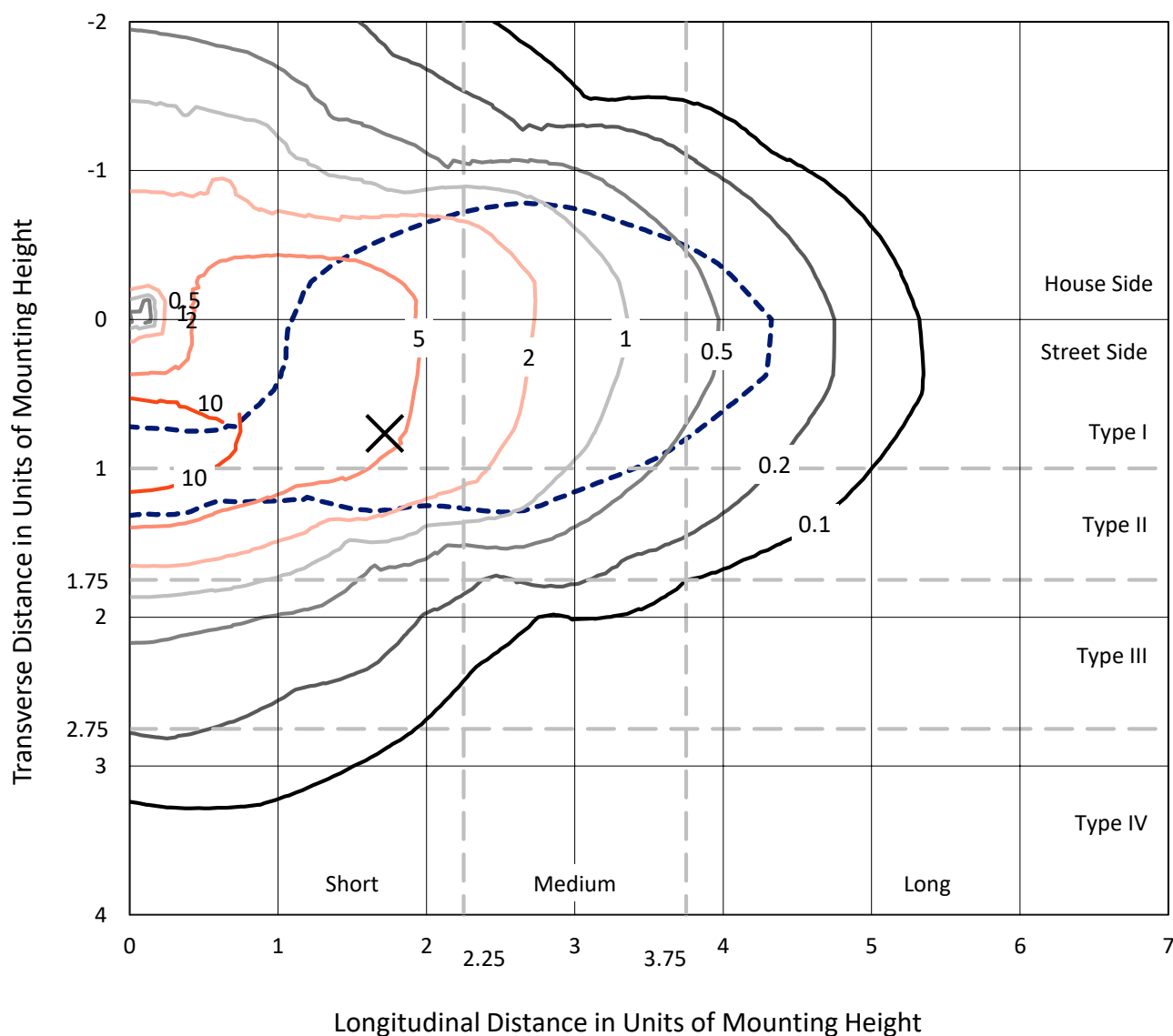
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

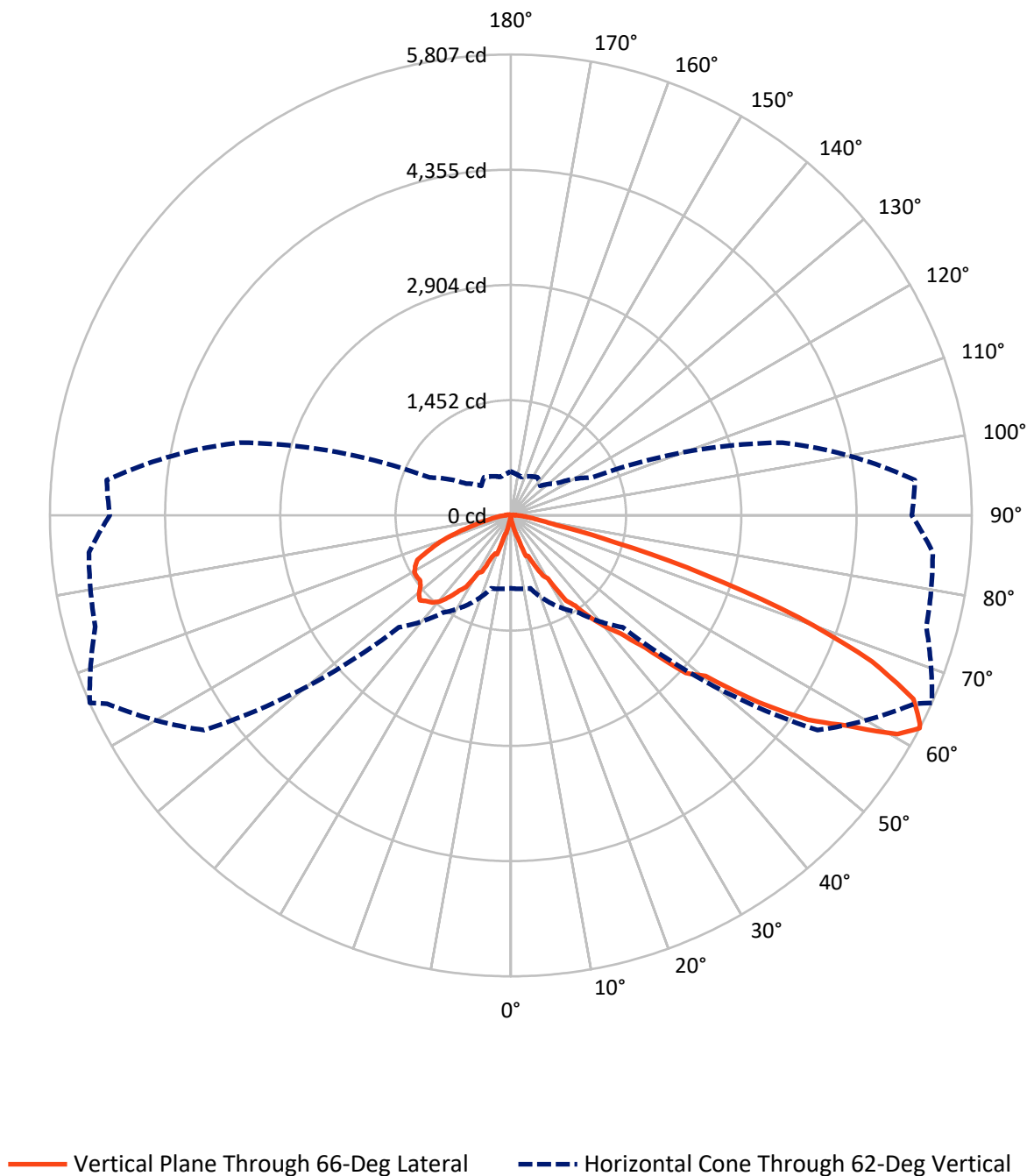


Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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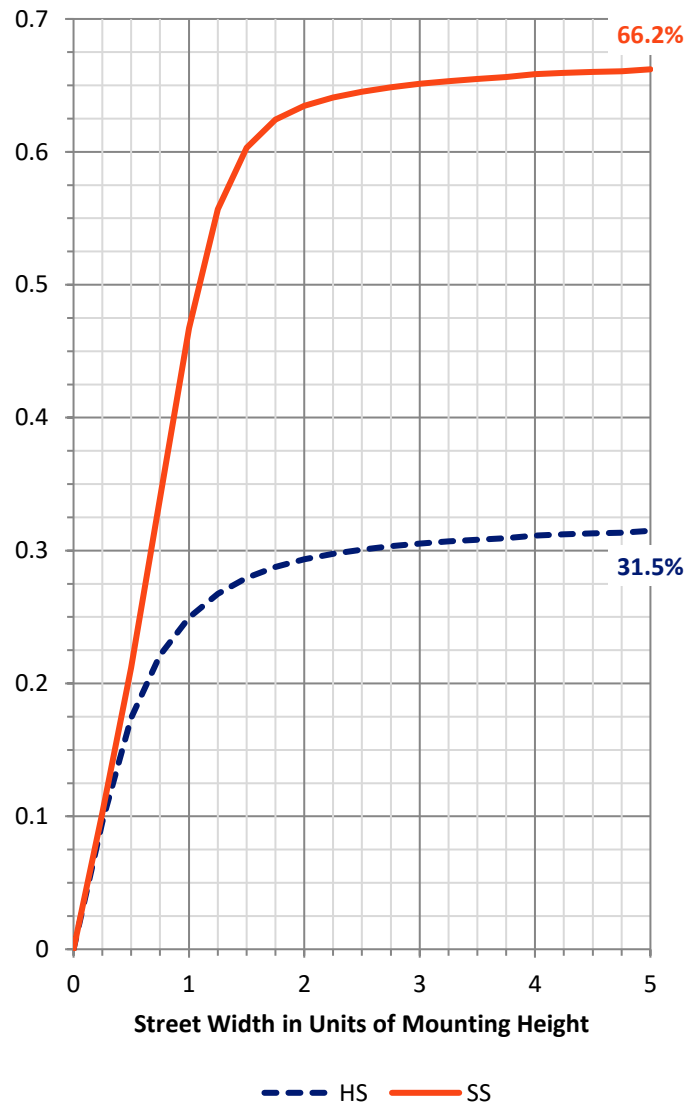
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2665.1	63.5	2728.6
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	5533.1	46.7	5579.8
	% Fixture	66.6	0.6	67.2
Total	Lumens	8198.2	110.3	8308.5
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.1
10°-20°	84.3	1.0
20°-30°	334.0	4.0
30°-40°	832.2	10.0
40°-50°	1587.0	19.1
50°-60°	2164.3	26.0
60°-70°	1988.2	23.9
70°-80°	1014.2	12.2
80°-90°	186.6	2.2
90°-100°	49.3	0.6
100°-110°	23.7	0.3
110°-120°	14.3	0.2
120°-130°	11.0	0.1
130°-140°	7.3	0.1
140°-150°	3.6	0.0
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	8198.2	98.7
0°-180°	8308.5	100.0

Coefficient of Utilization



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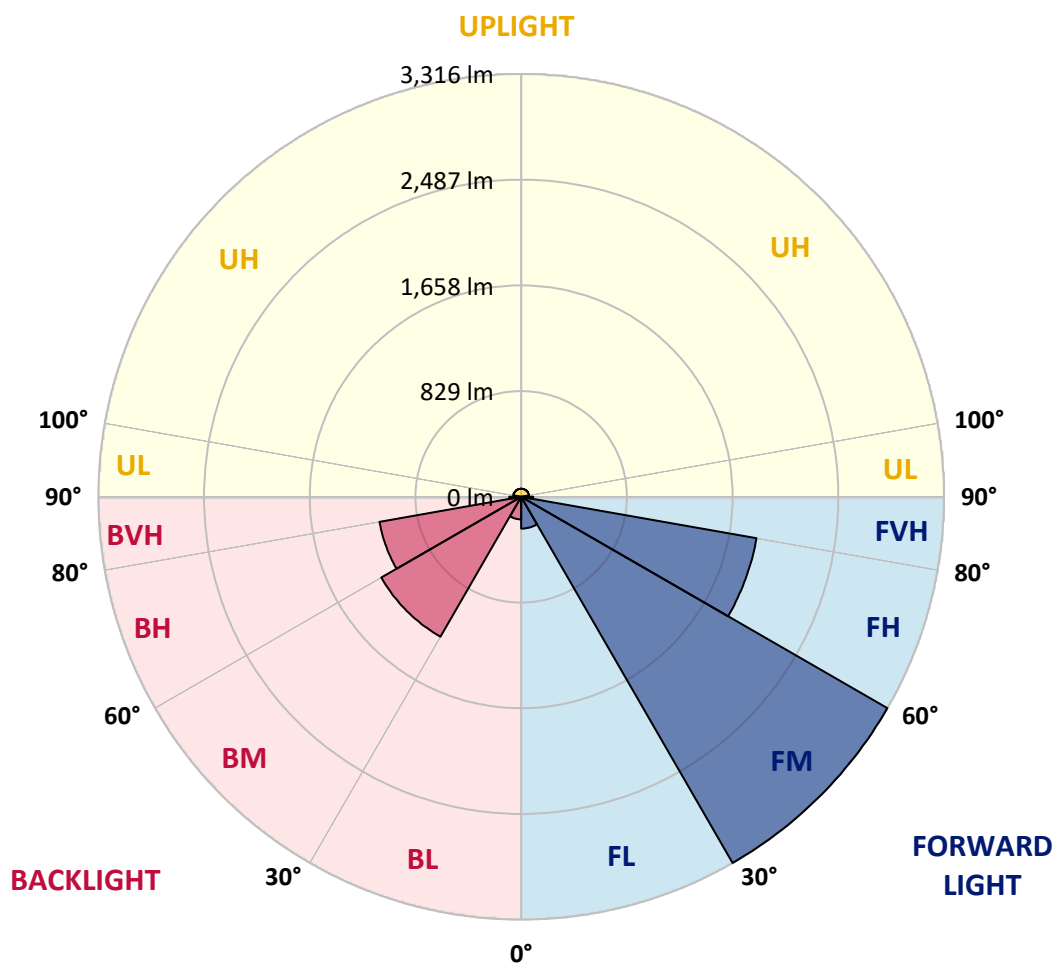
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.0	3.0			
FM	(30°-60°)	3316.4	39.9			
FH	(60°-80°)	1874.1	22.6			G2/5000
FVH	(80°-90°)	93.6	1.1			G1/100
BL	(0°-30°)	176.7	2.1	B1/500		
BM	(30°-60°)	1267.2	15.3	B2/2500		
BH	(60°-80°)	1128.3	13.6	B3/2500		G3/2500
BVH	(80°-90°)	93.0	1.1			G1/100
UL	(90°-100°)	49.3	0.6		U2/50	
UH	(100°-180°)	63.5	0.8		U3/500	

BUG Rating: B3-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2.5°	103.3	98.2	73.7	64.4	54.2	44.0	33.8	28.6	27.6	25.6	23.5
5°	103.3	103.3	106.4	112.5	124.8	113.5	119.7	43.0	40.9	27.6	22.5
7.5°	197.4	192.3	241.4	170.8	107.4	100.2	152.4	93.1	93.1	43.0	25.6
10°	267.0	266.0	326.3	208.7	192.3	233.2	103.3	106.4	106.4	73.7	35.8
12.5°	261.9	259.8	263.9	287.4	241.4	204.6	207.7	136.1	169.8	268.0	275.2
15°	368.3	387.7	367.2	281.3	257.8	256.8	331.4	251.6	255.7	294.6	215.8
17.5°	491.0	493.1	537.0	456.2	359.1	379.5	350.9	351.9	311.0	326.3	365.2
20°	535.0	525.8	550.3	510.5	510.5	454.2	358.0	507.4	545.2	512.5	506.4
22.5°	918.6	914.5	799.9	559.6	579.0	530.9	542.2	591.3	555.5	521.7	512.5
25°	1047.5	1034.2	994.3	954.4	709.9	744.7	656.7	642.4	682.3	823.5	891.0
27.5°	1393.3	1408.6	1203.0	1074.1	957.5	801.0	750.8	922.7	856.2	901.2	891.0
30°	1753.2	1745.1	1672.5	1436.2	1203.0	994.3	996.4	968.7	923.7	1061.8	1206.1
32.5°	2272.9	2299.5	1967.0	1719.6	1503.7	1210.2	1096.6	1287.9	1279.7	1239.8	1294.0
35°	2833.5	2829.4	2557.3	2149.1	1626.5	1368.7	1310.4	1423.9	1396.3	1335.0	1435.2
37.5°	3189.5	3149.6	2964.4	2613.5	1988.5	1560.0	1580.5	1663.3	1635.7	1554.9	1739.9
40°	3705.0	3661.0	3440.1	2963.4	2479.5	1890.3	2005.9	1938.4	1848.4	1834.0	1857.6
42.5°	3894.3	3896.3	3680.5	3333.7	2906.1	2362.9	2423.3	2126.6	2035.6	2188.0	2136.8
45°	3953.6	3945.4	3795.0	3535.2	3183.3	2927.6	2735.3	2469.3	2377.2	2516.4	2571.6
47.5°	3823.7	3791.0	3815.5	3525.0	3475.9	3174.1	3134.2	2946.0	2966.5	2887.7	3017.6
50°	3474.9	3426.8	3491.2	3415.5	3625.2	3441.1	3905.5	3192.5	3181.3	3323.5	3485.1
52.5°	2933.7	2897.9	3106.6	3044.2	3592.5	3732.6	4059.0	3902.5	3912.7	3926.0	3838.0
55°	2403.8	2422.2	2581.8	2545.0	3118.9	3796.1	4571.5	4484.5	4543.8	4214.5	4215.5
57.5°	1716.5	1757.3	2044.8	2066.3	2599.2	3338.8	4982.7	4843.6	4996.0	4688.1	4756.6
60°	1182.5	1207.1	1362.6	1579.4	1950.7	2772.1	4763.8	5457.2	5595.3	5169.9	5166.8
62°	917.6	927.8	951.3	1228.6	1497.6	1992.6	4715.7	5611.7	5807.1	5419.4	5335.5
62.5°	851.1	862.3	877.7	1115.0	1381.0	1811.5	4535.7	5645.5	5784.6	5451.1	5364.1
65°	681.3	686.4	651.6	741.6	975.9	1082.3	3259.0	5486.9	5575.9	5412.2	5281.3
67.5°	631.2	612.7	564.7	540.1	730.4	697.7	1773.7	4676.8	4907.0	5180.0	5044.1
70°	522.7	563.6	524.8	482.8	583.1	536.0	752.9	3784.8	3849.3	4742.3	4723.9
72.5°	400.0	429.6	460.3	455.2	449.1	431.7	500.2	2365.0	2554.2	3892.2	4374.0
75°	324.3	336.6	401.0	387.7	399.0	341.7	393.8	1124.2	1360.5	2754.7	3804.3
77.5°	260.9	269.0	312.0	300.7	330.4	267.0	314.0	509.4	576.9	1583.5	2605.4
80°	172.9	177.0	227.1	225.0	241.4	236.3	237.3	357.0	361.1	740.6	1363.6
82.5°	128.9	126.8	156.5	157.5	156.5	170.8	162.6	244.5	254.7	363.1	453.2
85°	83.9	80.8	93.1	99.2	95.1	94.1	122.8	171.9	179.0	258.8	270.1
87.5°	46.0	49.1	61.4	61.4	64.4	63.4	100.2	114.6	119.7	172.9	145.3
90°	30.7	30.7	33.8	32.7	34.8	33.8	52.2	67.5	68.5	87.0	77.7
92.5°	27.6	29.7	33.8	33.8	36.8	31.7	47.1	57.3	58.3	70.6	59.3
95°	24.6	25.6	28.6	29.7	31.7	22.5	35.8	47.1	48.1	58.3	48.1
97.5°	20.5	22.5	24.6	25.6	28.6	20.5	29.7	37.8	38.9	45.0	36.8
100°	20.5	21.5	21.5	21.5	24.6	17.4	25.6	32.7	33.8	36.8	30.7
102.5°	19.4	20.5	19.4	18.4	20.5	15.3	22.5	27.6	27.6	26.6	25.6
105°	19.4	19.4	16.4	14.3	17.4	14.3	19.4	20.5	20.5	20.5	23.5
107.5°	18.4	18.4	15.3	13.3	14.3	12.3	16.4	17.4	17.4	18.4	22.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	17.4	16.4	13.3	11.3	11.3	11.3	13.3	14.3	14.3	16.4	23.5
112.5°	15.3	15.3	11.3	10.2	10.2	10.2	12.3	13.3	13.3	15.3	22.5
115°	14.3	14.3	11.3	9.2	9.2	9.2	11.3	12.3	12.3	14.3	22.5
117.5°	15.3	14.3	10.2	9.2	8.2	8.2	9.2	11.3	11.3	14.3	22.5
120°	13.3	13.3	10.2	8.2	7.2	8.2	9.2	10.2	11.3	15.3	22.5
122.5°	14.3	13.3	10.2	7.2	7.2	7.2	8.2	10.2	10.2	14.3	20.5
125°	13.3	12.3	9.2	7.2	6.1	7.2	8.2	9.2	10.2	14.3	20.5
127.5°	13.3	12.3	9.2	7.2	6.1	6.1	8.2	9.2	9.2	13.3	19.4
130°	12.3	12.3	8.2	6.1	6.1	6.1	7.2	8.2	8.2	12.3	17.4
132.5°	11.3	10.2	8.2	6.1	5.1	6.1	7.2	7.2	7.2	11.3	16.4
135°	10.2	10.2	8.2	6.1	5.1	5.1	6.1	7.2	7.2	10.2	14.3
137.5°	9.2	9.2	8.2	6.1	5.1	5.1	5.1	6.1	6.1	9.2	12.3
140°	9.2	9.2	8.2	6.1	5.1	5.1	5.1	5.1	5.1	7.2	10.2
142.5°	9.2	9.2	8.2	6.1	5.1	4.1	4.1	4.1	4.1	6.1	8.2
145°	8.2	8.2	7.2	6.1	4.1	3.1	3.1	4.1	4.1	5.1	6.1
147.5°	8.2	8.2	7.2	5.1	3.1	2.0	2.0	3.1	3.1	4.1	5.1
150°	6.1	6.1	6.1	4.1	2.0	0.0	2.0	2.0	2.0	4.1	4.1
152.5°	4.1	4.1	3.1	2.0	1.0	1.0	1.0	2.0	2.0	2.0	3.1
155°	2.0	2.0	2.0	1.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0
157.5°	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
162.5°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0
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°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2.5°	23.5	22.5	22.5	22.5	23.5	23.5	23.5	22.5	21.5	21.5	21.5
5°	21.5	20.5	20.5	20.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
7.5°	23.5	21.5	21.5	20.5	20.5	21.5	23.5	34.8	60.4	84.9	99.2
10°	32.7	32.7	28.6	26.6	26.6	38.9	144.2	156.5	156.5	148.3	143.2
12.5°	296.7	234.3	206.6	72.6	59.3	120.7	138.1	129.9	180.0	209.7	222.0
15°	214.8	235.3	253.7	228.1	307.9	128.9	208.7	253.7	341.7	345.8	348.8
17.5°	361.1	389.7	281.3	245.5	287.4	381.6	312.0	323.3	323.3	323.3	324.3
20°	508.4	517.6	540.1	516.6	288.5	402.0	400.0	325.3	366.2	456.2	481.8
22.5°	540.1	558.5	531.9	515.6	609.7	375.4	413.3	517.6	523.8	499.2	511.5
25°	916.6	890.0	781.5	550.3	608.7	524.8	534.0	484.9	498.2	483.9	493.1
27.5°	909.4	895.1	808.1	793.8	639.3	620.9	496.1	559.6	594.3	616.8	612.7
30°	1270.5	1186.6	936.0	819.4	754.9	594.3	545.2	529.9	525.8	552.4	554.4
32.5°	1276.6	1264.4	1078.2	1059.8	776.4	601.5	514.5	483.9	552.4	589.2	583.1
35°	1481.2	1417.8	1232.7	1143.7	892.0	565.7	459.3	483.9	495.1	521.7	520.7
37.5°	1664.3	1644.9	1493.5	1263.3	859.3	515.6	518.6	515.6	502.3	506.4	506.4
40°	1907.7	1800.3	1665.4	1374.8	804.0	552.4	559.6	486.9	473.6	466.5	466.5
42.5°	2197.2	2015.1	1890.3	1429.1	764.1	650.6	529.9	475.7	462.4	441.9	438.8
45°	2538.9	2312.8	2125.6	1446.5	641.4	674.1	550.3	541.1	497.2	478.7	471.6
47.5°	2838.6	2656.5	2396.7	1475.1	743.7	643.4	724.2	614.8	479.8	506.4	502.3
50°	3288.7	3054.4	2586.9	1402.5	794.8	625.0	752.9	538.1	494.1	529.9	527.8
52.5°	3686.6	3463.6	2786.4	1293.0	751.9	864.4	668.0	616.8	572.9	554.4	552.4
55°	4103.0	3880.0	2921.4	1237.8	742.7	691.5	694.6	668.0	517.6	557.5	556.5
57.5°	4581.7	4458.9	3215.0	1214.2	761.1	610.7	694.6	558.5	590.2	557.5	563.6
60°	4837.4	4837.4	3385.9	1190.7	702.8	627.1	596.4	613.8	512.5	518.6	535.0
62°	5052.3	5109.5	3542.4	1128.3	700.7	525.8	586.2	542.2	501.2	531.9	552.4
62.5°	5124.9	5168.9	3589.4	1116.0	718.1	498.2	543.2	541.1	519.7	523.8	542.2
65°	5195.4	5398.9	3702.0	1038.3	660.8	470.6	464.4	513.5	450.1	430.7	431.7
67.5°	5128.0	5408.1	3664.1	835.8	536.0	404.1	410.2	428.6	406.1	399.0	403.0
70°	4881.4	4995.0	3278.5	689.5	462.4	370.3	393.8	378.5	372.4	371.3	370.3
72.5°	4543.8	4328.0	2574.7	518.6	397.9	321.2	337.6	348.8	350.9	345.8	339.6
75°	3832.9	3399.2	1679.7	388.7	318.1	272.1	307.9	317.1	325.3	311.0	305.9
77.5°	2630.9	2143.0	869.5	308.9	275.2	228.1	270.1	284.4	292.6	271.1	274.2
80°	1221.4	977.9	402.0	252.7	228.1	189.2	229.1	247.6	258.8	230.2	219.9
82.5°	412.2	376.4	242.4	195.4	187.2	144.2	185.2	206.6	209.7	191.3	162.6
85°	245.5	246.5	169.8	150.4	138.1	90.0	133.0	162.6	162.6	135.0	110.5
87.5°	141.2	158.6	129.9	114.6	103.3	61.4	99.2	111.5	109.5	85.9	61.4
90°	70.6	82.9	76.7	75.7	77.7	38.9	77.7	83.9	83.9	59.3	37.8
92.5°	52.2	63.4	68.5	64.4	65.5	29.7	62.4	63.4	62.4	46.0	29.7
95°	44.0	55.2	68.5	64.4	62.4	24.6	57.3	58.3	59.3	45.0	32.7
97.5°	34.8	41.9	53.2	52.2	56.3	20.5	52.2	52.2	50.1	36.8	27.6
100°	31.7	36.8	45.0	45.0	49.1	18.4	46.0	41.9	39.9	29.7	25.6
102.5°	26.6	29.7	34.8	33.8	36.8	17.4	33.8	32.7	30.7	25.6	24.6
105°	25.6	26.6	26.6	24.6	25.6	16.4	23.5	22.5	21.5	21.5	22.5
107.5°	24.6	24.6	22.5	20.5	20.5	15.3	17.4	16.4	17.4	22.5	23.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	24.6	24.6	20.5	18.4	16.4	14.3	15.3	13.3	15.3	22.5	24.6
112.5°	24.6	24.6	18.4	15.3	15.3	13.3	13.3	12.3	14.3	22.5	24.6
115°	23.5	23.5	17.4	14.3	13.3	12.3	12.3	11.3	14.3	22.5	24.6
117.5°	23.5	23.5	17.4	14.3	12.3	11.3	11.3	10.2	14.3	23.5	24.6
120°	23.5	23.5	17.4	13.3	12.3	11.3	10.2	10.2	14.3	22.5	24.6
122.5°	22.5	21.5	16.4	12.3	11.3	10.2	10.2	10.2	14.3	23.5	24.6
125°	21.5	20.5	16.4	12.3	10.2	10.2	9.2	9.2	14.3	22.5	23.5
127.5°	20.5	20.5	15.3	11.3	10.2	9.2	9.2	9.2	14.3	23.5	23.5
130°	19.4	18.4	14.3	10.2	9.2	8.2	8.2	9.2	15.3	21.5	22.5
132.5°	17.4	16.4	13.3	9.2	8.2	8.2	8.2	8.2	14.3	21.5	21.5
135°	14.3	14.3	11.3	8.2	7.2	7.2	7.2	8.2	13.3	18.4	19.4
137.5°	13.3	12.3	10.2	8.2	6.1	7.2	7.2	8.2	13.3	17.4	18.4
140°	11.3	10.2	8.2	6.1	6.1	6.1	6.1	7.2	11.3	15.3	16.4
142.5°	8.2	8.2	7.2	5.1	5.1	5.1	5.1	7.2	10.2	13.3	13.3
145°	7.2	7.2	6.1	5.1	4.1	3.1	3.1	5.1	8.2	11.3	11.3
147.5°	5.1	5.1	5.1	4.1	3.1	3.1	3.1	4.1	6.1	8.2	8.2
150°	4.1	4.1	4.1	3.1	3.1	2.0	2.0	3.1	5.1	6.1	6.1
152.5°	3.1	3.1	3.1	3.1	2.0	2.0	2.0	2.0	3.1	4.1	4.1
155°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0
157.5°	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0	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)