

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: P241121

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241121
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-AF24-60-D-U-T2U-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 5919.6 lumens
Efficiency: N/A
Efficacy: 92.5 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: B2 - U2 - G2

Input Watts (W): 64
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

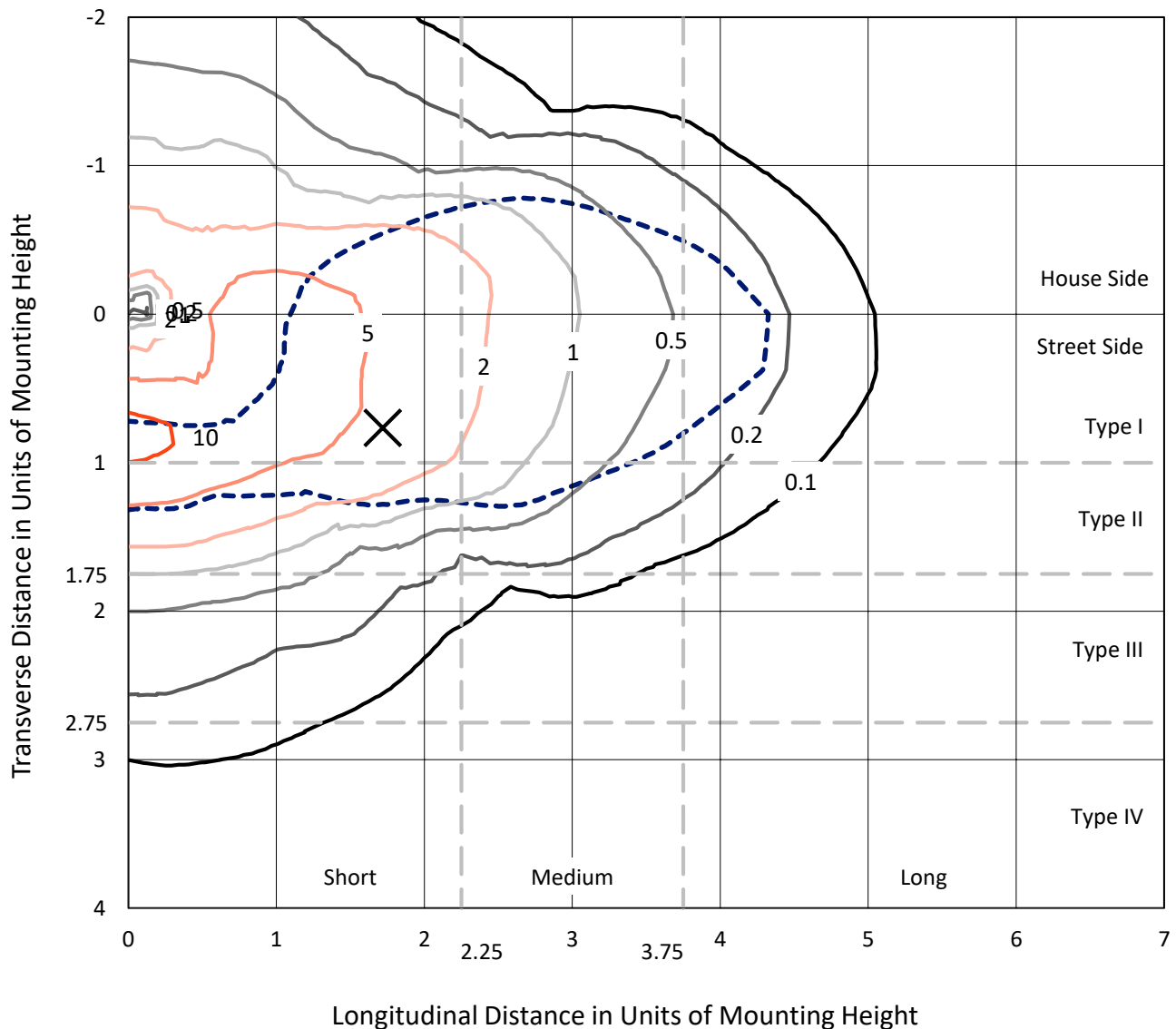


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

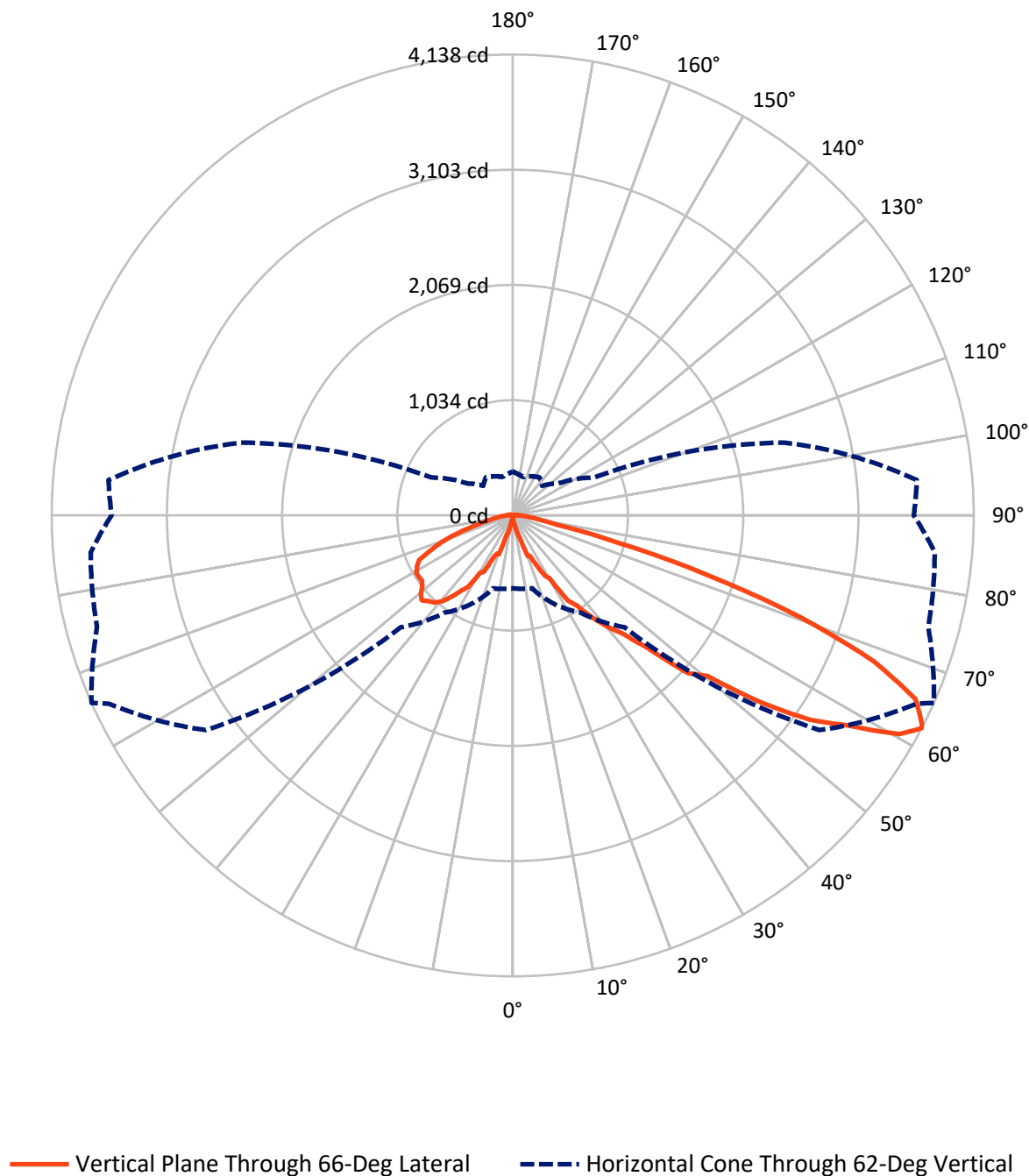


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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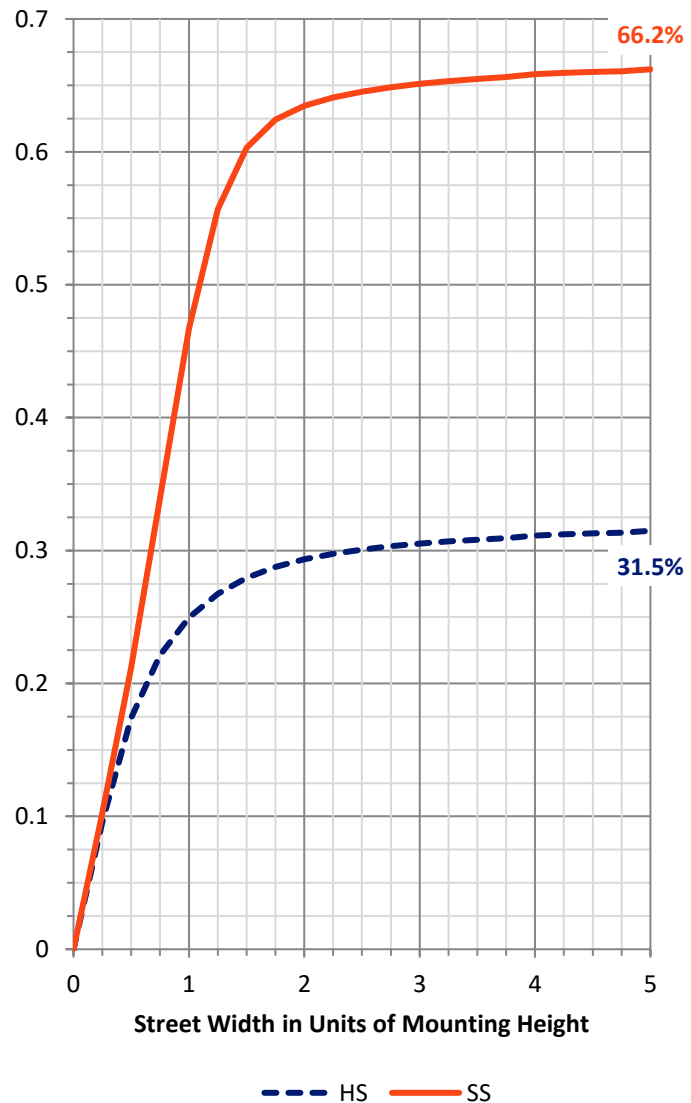
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1898.8	45.2	1944.0
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	3942.3	33.3	3975.5
	% Fixture	66.6	0.6	67.2
Total	Lumens	5841.1	78.5	5919.6
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	60.1	1.0
20°-30°	238.0	4.0
30°-40°	592.9	10.0
40°-50°	1130.7	19.1
50°-60°	1542.1	26.1
60°-70°	1416.6	23.9
70°-80°	722.6	12.2
80°-90°	132.9	2.2
90°-100°	35.1	0.6
100°-110°	16.9	0.3
110°-120°	10.2	0.2
120°-130°	7.8	0.1
130°-140°	5.2	0.1
140°-150°	2.5	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5841.1	98.7
0°-180°	5919.6	100.0

Coefficient of Utilization



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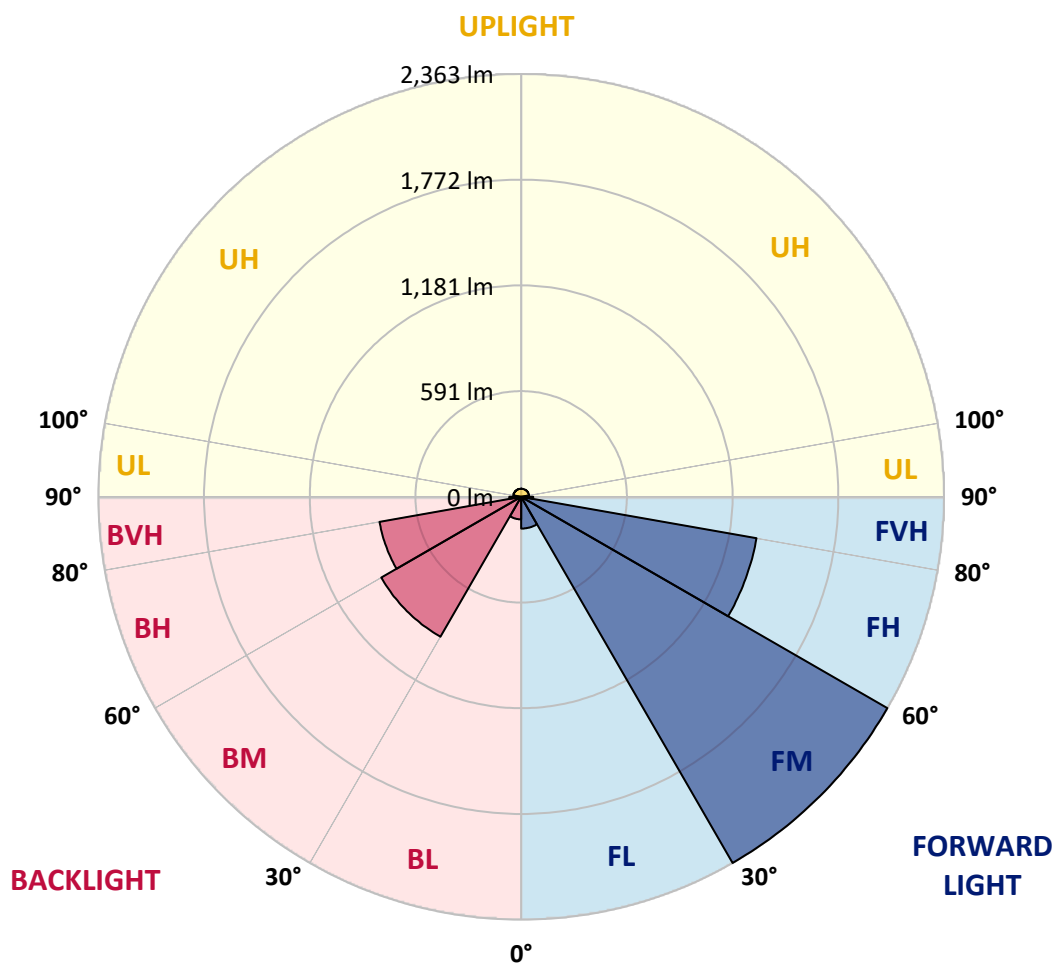
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.4	3.0			
FM	(30°-60°)	2362.9	39.9			
FH	(60°-80°)	1335.3	22.6			G1/1800
FVH	(80°-90°)	66.7	1.1			G1/100
BL	(0°-30°)	125.9	2.1	B1/500		
BM	(30°-60°)	902.8	15.3	B1/1000		
BH	(60°-80°)	803.9	13.6	B2/1000		G2/1000
BVH	(80°-90°)	66.2	1.1			G1/100
UL	(90°-100°)	35.1	0.6		U2/50	
UH	(100°-180°)	45.2	0.8		U2/50	

BUG Rating: B2-U2-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	73.6	69.9	52.5	45.9	38.7	31.3	24.0	20.4	19.6	18.2	16.7
5°	73.6	73.6	75.8	80.2	88.9	80.9	85.2	30.6	29.2	19.6	16.1
7.5°	140.6	137.0	172.0	121.8	76.5	71.4	108.6	66.3	66.3	30.6	18.2
10°	190.2	189.4	232.5	148.7	137.0	166.2	73.6	75.8	75.8	52.5	25.4
12.5°	186.7	185.0	188.0	204.8	172.0	145.8	147.9	96.9	121.0	190.9	196.0
15°	262.3	276.2	261.6	200.4	183.7	182.9	236.1	179.3	182.3	209.9	153.7
17.5°	349.8	351.3	382.6	325.0	255.7	270.4	249.9	250.7	221.6	232.5	260.1
20°	381.2	374.6	392.1	363.8	363.8	323.6	255.1	361.5	388.4	365.2	360.8
22.5°	654.5	651.5	569.9	398.7	412.6	378.2	386.2	421.3	395.7	371.7	365.2
25°	746.4	736.9	708.4	680.0	505.8	530.6	467.9	457.7	486.1	586.7	634.8
27.5°	992.6	1003.5	857.1	765.3	682.3	570.7	535.0	657.4	610.0	642.1	634.8
30°	1249.2	1243.4	1191.6	1023.2	857.1	708.4	709.8	690.2	658.2	756.5	859.4
32.5°	1619.4	1638.4	1401.6	1225.2	1071.4	862.2	781.3	917.6	911.8	883.4	921.9
35°	2018.8	2016.0	1822.0	1531.3	1158.8	975.1	933.6	1014.5	994.8	951.1	1022.5
37.5°	2272.5	2244.0	2112.1	1862.1	1416.9	1111.5	1126.0	1185.0	1165.4	1107.8	1239.8
40°	2639.8	2608.4	2451.0	2111.4	1766.6	1346.8	1429.2	1381.1	1317.0	1306.7	1323.5
42.5°	2774.6	2776.1	2622.3	2375.2	2070.6	1683.5	1726.7	1515.2	1450.3	1558.9	1522.5
45°	2816.9	2811.0	2703.9	2518.9	2268.1	2085.9	1948.8	1759.4	1693.7	1793.0	1832.3
47.5°	2724.4	2701.0	2718.5	2511.6	2476.6	2261.5	2233.2	2099.0	2113.6	2057.5	2150.0
50°	2475.9	2441.5	2487.5	2433.5	2583.0	2451.8	2782.7	2274.7	2266.6	2367.9	2483.1
52.5°	2090.2	2064.8	2213.5	2169.1	2559.6	2659.5	2892.0	2780.4	2787.8	2797.2	2734.5
55°	1712.7	1725.9	1839.6	1813.2	2222.3	2704.6	3257.1	3195.2	3237.5	3002.8	3003.4
57.5°	1222.9	1252.1	1456.9	1472.3	1852.0	2378.9	3550.1	3451.0	3559.5	3340.2	3389.0
60°	842.5	860.0	970.8	1125.3	1389.9	1975.1	3394.1	3888.3	3986.7	3683.4	3681.3
62°	653.8	661.0	677.9	875.2	1067.0	1419.8	3359.8	3998.4	4137.5	3861.3	3801.5
62.5°	606.4	614.4	625.3	794.5	983.9	1290.8	3231.6	4022.4	4121.5	3883.8	3821.9
65°	485.4	489.1	464.3	528.4	695.3	771.1	2322.0	3909.4	3972.7	3856.2	3762.9
67.5°	449.7	436.6	402.3	384.8	520.4	497.0	1263.8	3332.2	3496.2	3690.8	3593.9
70°	372.5	401.5	373.8	344.0	415.4	381.9	536.5	2696.6	2742.5	3378.9	3365.7
72.5°	284.9	306.2	328.0	324.3	319.9	307.6	356.4	1685.0	1819.8	2773.2	3116.4
75°	231.1	239.9	285.7	276.2	284.3	243.4	280.6	801.0	969.3	1962.8	2710.5
77.5°	185.8	191.6	222.4	214.2	235.5	190.2	223.8	363.0	411.1	1128.2	1856.4
80°	123.1	126.0	161.8	160.4	172.0	168.4	169.2	254.3	257.3	527.6	971.6
82.5°	91.8	90.3	111.6	112.2	111.6	121.8	116.0	174.2	181.5	258.7	322.9
85°	59.8	57.6	66.3	70.7	67.7	67.0	87.4	122.5	127.5	184.4	192.4
87.5°	32.8	35.0	43.7	43.7	45.9	45.3	71.4	81.6	85.2	123.1	103.5
90°	21.9	21.9	24.0	23.3	24.8	24.0	37.1	48.1	48.8	62.0	55.4
92.5°	19.6	21.1	24.0	24.0	26.2	22.6	33.6	40.9	41.5	50.3	42.3
95°	17.5	18.2	20.4	21.1	22.6	16.1	25.4	33.6	34.3	41.5	34.3
97.5°	14.5	16.1	17.5	18.2	20.4	14.5	21.1	27.0	27.7	32.1	26.2
100°	14.5	15.3	15.3	15.3	17.5	12.3	18.2	23.3	24.0	26.2	21.9
102.5°	13.8	14.5	13.8	13.1	14.5	10.9	16.1	19.6	19.6	18.9	18.2
105°	13.8	13.8	11.7	10.2	12.3	10.2	13.8	14.5	14.5	14.5	16.7
107.5°	13.1	13.1	10.9	9.5	10.2	8.7	11.7	12.3	12.3	13.1	16.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	12.3	11.7	9.5	7.9	7.9	7.9	9.5	10.2	10.2	11.7	16.7
112.5°	10.9	10.9	7.9	7.3	7.3	7.3	8.7	9.5	9.5	10.9	16.1
115°	10.2	10.2	7.9	6.5	6.5	6.5	7.9	8.7	8.7	10.2	16.1
117.5°	10.9	10.2	7.3	6.5	5.8	5.8	6.5	7.9	7.9	10.2	16.1
120°	9.5	9.5	7.3	5.8	5.1	5.8	6.5	7.3	7.9	10.9	16.1
122.5°	10.2	9.5	7.3	5.1	5.1	5.1	5.8	7.3	7.3	10.2	14.5
125°	9.5	8.7	6.5	5.1	4.4	5.1	5.8	6.5	7.3	10.2	14.5
127.5°	9.5	8.7	6.5	5.1	4.4	4.4	5.8	6.5	6.5	9.5	13.8
130°	8.7	8.7	5.8	4.4	4.4	4.4	5.1	5.8	5.8	8.7	12.3
132.5°	7.9	7.3	5.8	4.4	3.6	4.4	5.1	5.1	5.1	7.9	11.7
135°	7.3	7.3	5.8	4.4	3.6	3.6	4.4	5.1	5.1	7.3	10.2
137.5°	6.5	6.5	5.8	4.4	3.6	3.6	3.6	4.4	4.4	6.5	8.7
140°	6.5	6.5	5.8	4.4	3.6	3.6	3.6	3.6	3.6	5.1	7.3
142.5°	6.5	6.5	5.8	4.4	3.6	2.9	2.9	2.9	2.9	4.4	5.8
145°	5.8	5.8	5.1	4.4	2.9	2.1	2.1	2.9	2.9	3.6	4.4
147.5°	5.8	5.8	5.1	3.6	2.1	1.4	1.4	2.1	2.1	2.9	3.6
150°	4.4	4.4	4.4	2.9	1.4	0.0	1.4	1.4	1.4	2.9	2.9
152.5°	2.9	2.9	2.1	1.4	0.8	0.8	0.8	1.4	1.4	1.4	2.1
155°	1.4	1.4	1.4	0.8	0.8	0.0	0.0	0.8	0.8	1.4	1.4
157.5°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
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°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	16.7	16.1	16.1	16.1	16.7	16.7	16.7	16.1	15.3	15.3	15.3
5°	15.3	14.5	14.5	14.5	15.3	15.3	15.3	15.3	15.3	15.3	15.3
7.5°	16.7	15.3	15.3	14.5	14.5	15.3	16.7	24.8	43.0	60.5	70.7
10°	23.3	23.3	20.4	18.9	18.9	27.7	102.8	111.6	111.6	105.7	102.0
12.5°	211.3	166.9	147.2	51.8	42.3	86.0	98.5	92.6	128.3	149.3	158.2
15°	153.1	167.6	180.8	162.6	219.4	91.8	148.7	180.8	243.4	246.4	248.6
17.5°	257.3	277.6	200.4	175.0	204.8	271.8	222.4	230.3	230.3	230.3	231.1
20°	362.2	368.8	384.8	368.1	205.5	286.5	284.9	231.7	260.9	325.0	343.3
22.5°	384.8	397.9	379.0	367.3	434.5	267.4	294.5	368.8	373.1	355.6	364.4
25°	653.1	634.0	556.7	392.1	433.6	373.8	380.4	345.5	355.0	344.7	351.3
27.5°	647.9	637.7	575.8	565.5	455.5	442.4	353.5	398.7	423.5	439.4	436.6
30°	905.2	845.4	666.9	583.8	537.9	423.5	388.4	377.5	374.6	393.6	395.0
32.5°	909.6	900.9	768.2	755.1	553.2	428.6	366.6	344.7	393.6	419.8	415.4
35°	1055.3	1010.1	878.2	814.8	635.6	403.0	327.2	344.7	352.8	371.7	370.9
37.5°	1185.8	1172.0	1064.0	900.1	612.2	367.3	369.6	367.3	357.9	360.8	360.8
40°	1359.3	1282.7	1186.5	979.5	572.8	393.6	398.7	346.9	337.4	332.3	332.3
42.5°	1565.4	1435.7	1346.8	1018.2	544.4	463.5	377.5	338.9	329.4	314.8	312.7
45°	1808.9	1647.8	1514.5	1030.6	456.9	480.3	392.1	385.5	354.2	341.1	336.0
47.5°	2022.5	1892.7	1707.6	1051.0	529.9	458.5	516.0	438.0	341.8	360.8	357.9
50°	2343.2	2176.2	1843.2	999.1	566.3	445.3	536.5	383.4	352.1	377.5	376.1
52.5°	2626.7	2467.8	1985.4	921.3	535.7	615.9	476.0	439.4	408.2	395.0	393.6
55°	2923.3	2764.4	2081.5	881.8	529.2	492.6	494.8	476.0	368.8	397.1	396.5
57.5°	3264.3	3176.9	2290.7	865.2	542.3	435.1	494.8	397.9	420.5	397.1	401.5
60°	3446.6	3446.6	2412.5	848.4	500.7	446.8	424.9	437.2	365.2	369.6	381.2
62°	3599.6	3640.5	2523.9	803.9	499.2	374.6	417.6	386.2	357.2	379.0	393.6
62.5°	3651.5	3682.7	2557.4	795.2	511.7	355.0	387.0	385.5	370.3	373.1	386.2
65°	3701.7	3846.7	2637.6	739.8	470.8	335.2	330.8	365.9	320.6	306.8	307.6
67.5°	3653.6	3853.2	2610.6	595.5	381.9	287.9	292.3	305.4	289.3	284.3	287.2
70°	3477.9	3558.8	2335.9	491.2	329.4	263.9	280.6	269.7	265.3	264.5	263.9
72.5°	3237.5	3083.7	1834.5	369.6	283.5	228.9	240.5	248.6	249.9	246.4	242.0
75°	2730.9	2421.8	1196.7	277.0	226.7	193.8	219.4	225.9	231.7	221.6	218.0
77.5°	1874.6	1526.9	619.5	220.1	196.0	162.6	192.4	202.5	208.4	193.2	195.3
80°	870.2	696.7	286.5	180.1	162.6	134.8	163.3	176.4	184.4	164.0	156.7
82.5°	293.7	268.2	172.7	139.2	133.4	102.8	131.8	147.2	149.3	136.2	116.0
85°	175.0	175.7	121.0	107.2	98.5	64.1	94.7	116.0	116.0	96.2	78.6
87.5°	100.6	113.0	92.6	81.6	73.6	43.7	70.7	79.4	78.0	61.1	43.7
90°	50.3	59.0	54.6	54.0	55.4	27.7	55.4	59.8	59.8	42.3	27.0
92.5°	37.1	45.3	48.8	45.9	46.7	21.1	44.5	45.3	44.5	32.8	21.1
95°	31.3	39.4	48.8	45.9	44.5	17.5	40.9	41.5	42.3	32.1	23.3
97.5°	24.8	29.8	37.9	37.1	40.1	14.5	37.1	37.1	35.7	26.2	19.6
100°	22.6	26.2	32.1	32.1	35.0	13.1	32.8	29.8	28.4	21.1	18.2
102.5°	18.9	21.1	24.8	24.0	26.2	12.3	24.0	23.3	21.9	18.2	17.5
105°	18.2	18.9	18.9	17.5	18.2	11.7	16.7	16.1	15.3	15.3	16.1
107.5°	17.5	17.5	16.1	14.5	14.5	10.9	12.3	11.7	12.3	16.1	16.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	17.5	17.5	14.5	13.1	11.7	10.2	10.9	9.5	10.9	16.1	17.5
112.5°	17.5	17.5	13.1	10.9	10.9	9.5	9.5	8.7	10.2	16.1	17.5
115°	16.7	16.7	12.3	10.2	9.5	8.7	8.7	7.9	10.2	16.1	17.5
117.5°	16.7	16.7	12.3	10.2	8.7	7.9	7.9	7.3	10.2	16.7	17.5
120°	16.7	16.7	12.3	9.5	8.7	7.9	7.3	7.3	10.2	16.1	17.5
122.5°	16.1	15.3	11.7	8.7	7.9	7.3	7.3	7.3	10.2	16.7	17.5
125°	15.3	14.5	11.7	8.7	7.3	7.3	6.5	6.5	10.2	16.1	16.7
127.5°	14.5	14.5	10.9	7.9	7.3	6.5	6.5	6.5	10.2	16.7	16.7
130°	13.8	13.1	10.2	7.3	6.5	5.8	5.8	6.5	10.9	15.3	16.1
132.5°	12.3	11.7	9.5	6.5	5.8	5.8	5.8	5.8	10.2	15.3	15.3
135°	10.2	10.2	7.9	5.8	5.1	5.1	5.1	5.8	9.5	13.1	13.8
137.5°	9.5	8.7	7.3	5.8	4.4	5.1	5.1	5.8	9.5	12.3	13.1
140°	7.9	7.3	5.8	4.4	4.4	4.4	4.4	5.1	7.9	10.9	11.7
142.5°	5.8	5.8	5.1	3.6	3.6	3.6	3.6	5.1	7.3	9.5	9.5
145°	5.1	5.1	4.4	3.6	2.9	2.1	2.1	3.6	5.8	7.9	7.9
147.5°	3.6	3.6	3.6	2.9	2.1	2.1	2.1	2.9	4.4	5.8	5.8
150°	2.9	2.9	2.9	2.1	2.1	1.4	1.4	2.1	3.6	4.4	4.4
152.5°	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4	2.1	2.9	2.9
155°	1.4	1.4	1.4	1.4	1.4	1.4	0.8	0.8	0.8	1.4	1.4
157.5°	0.8	0.8	0.8	1.4	1.4	1.4	0.8	0.8	0.0	0.0	0.0
160°	0.8	0.8	0.8	1.4	1.4	1.4	0.8	0.8	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	1.4	1.4	0.8	0.8	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)