

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: P241117

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241117
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-AF24-20-D-U-T2U-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA 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: 2182.9 lumens
Efficiency: N/A
Efficacy: 103.9 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: B1 - U2 - G1

Input Watts (W): 21
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

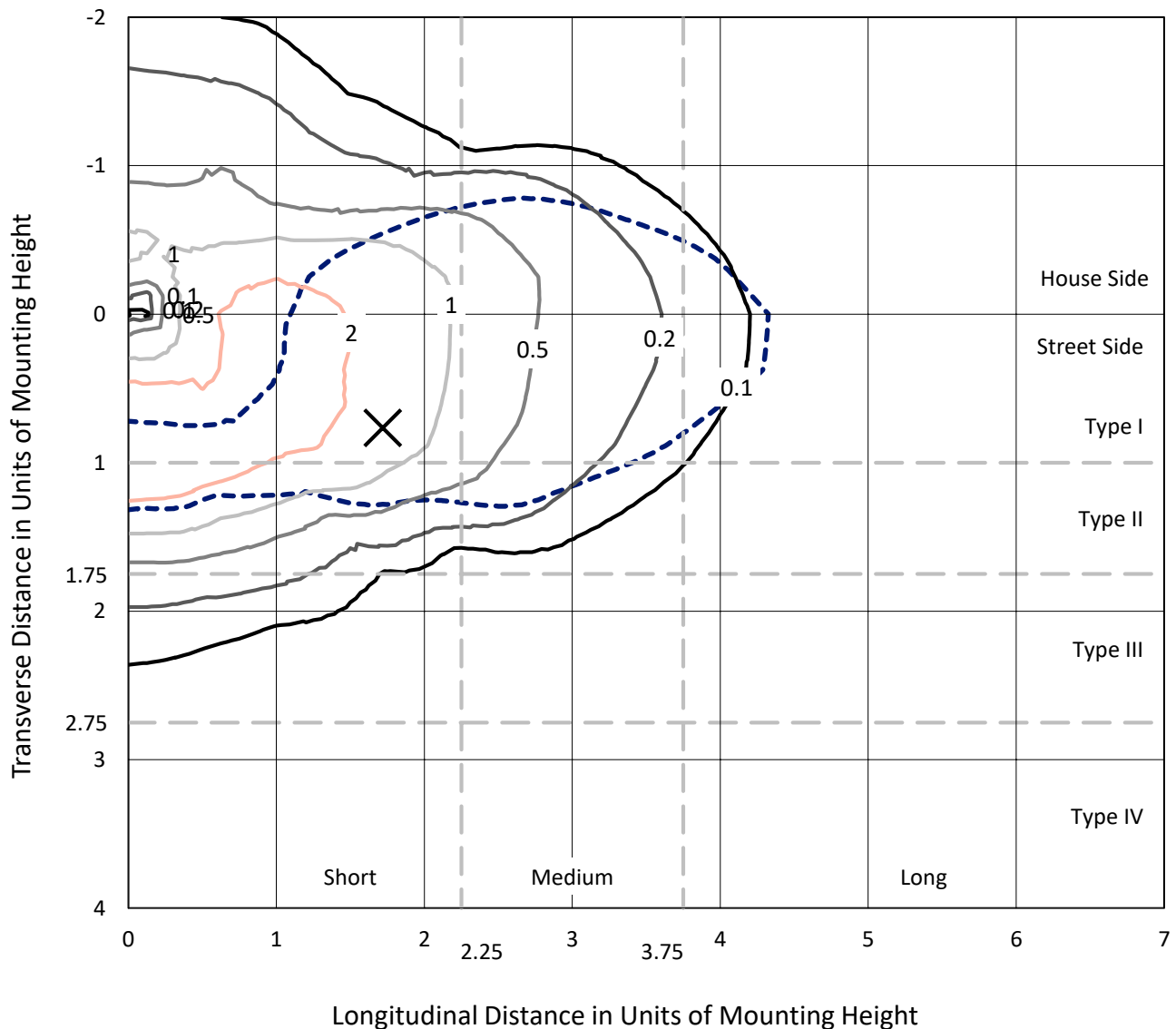


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

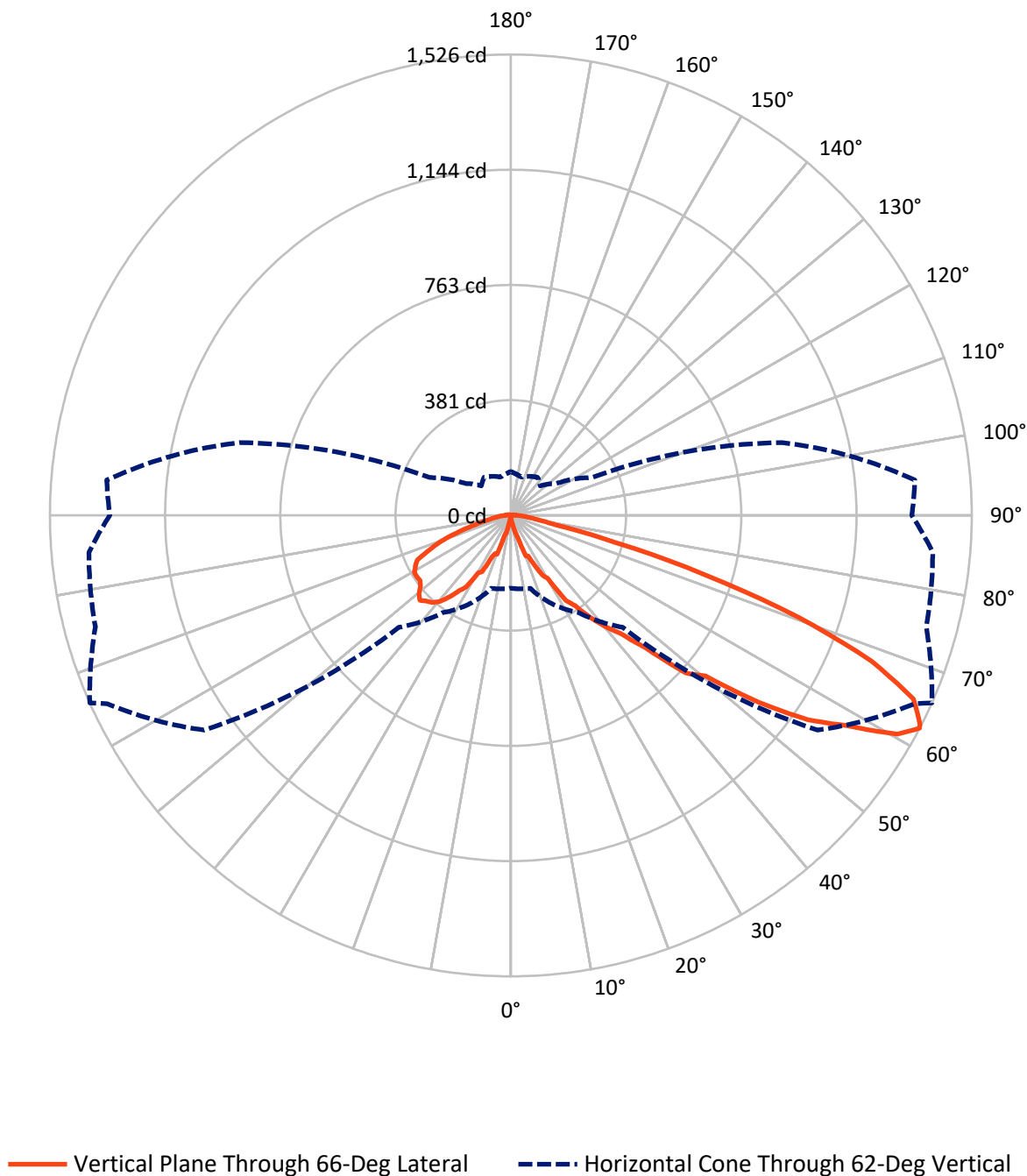


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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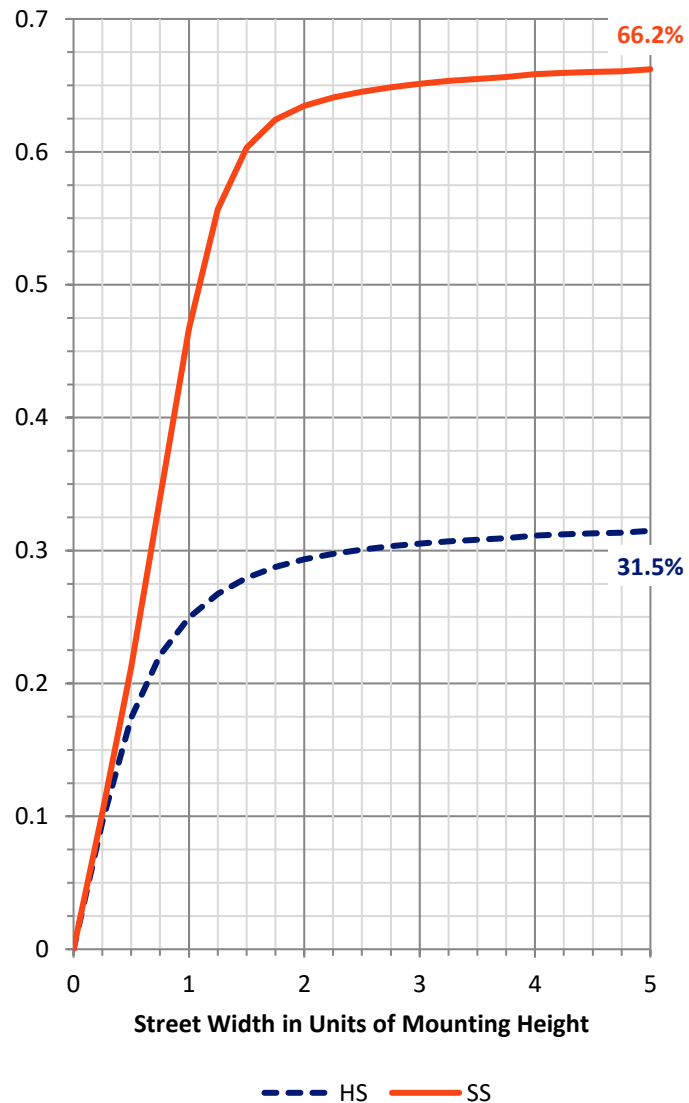
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	700.2	16.7	716.9
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	1453.8	12.2	1466.0
	% Fixture	66.6	0.6	67.2
Total	Lumens	2154.0	28.9	2182.9
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.1
10°-20°	22.2	1.0
20°-30°	87.8	4.0
30°-40°	218.7	10.0
40°-50°	417.0	19.1
50°-60°	568.7	26.1
60°-70°	522.4	23.9
70°-80°	266.5	12.2
80°-90°	49.0	2.2
90°-100°	12.9	0.6
100°-110°	6.2	0.3
110°-120°	3.8	0.2
120°-130°	2.9	0.1
130°-140°	1.9	0.1
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2154.0	98.7
0°-180°	2182.9	100.0

Coefficient of Utilization



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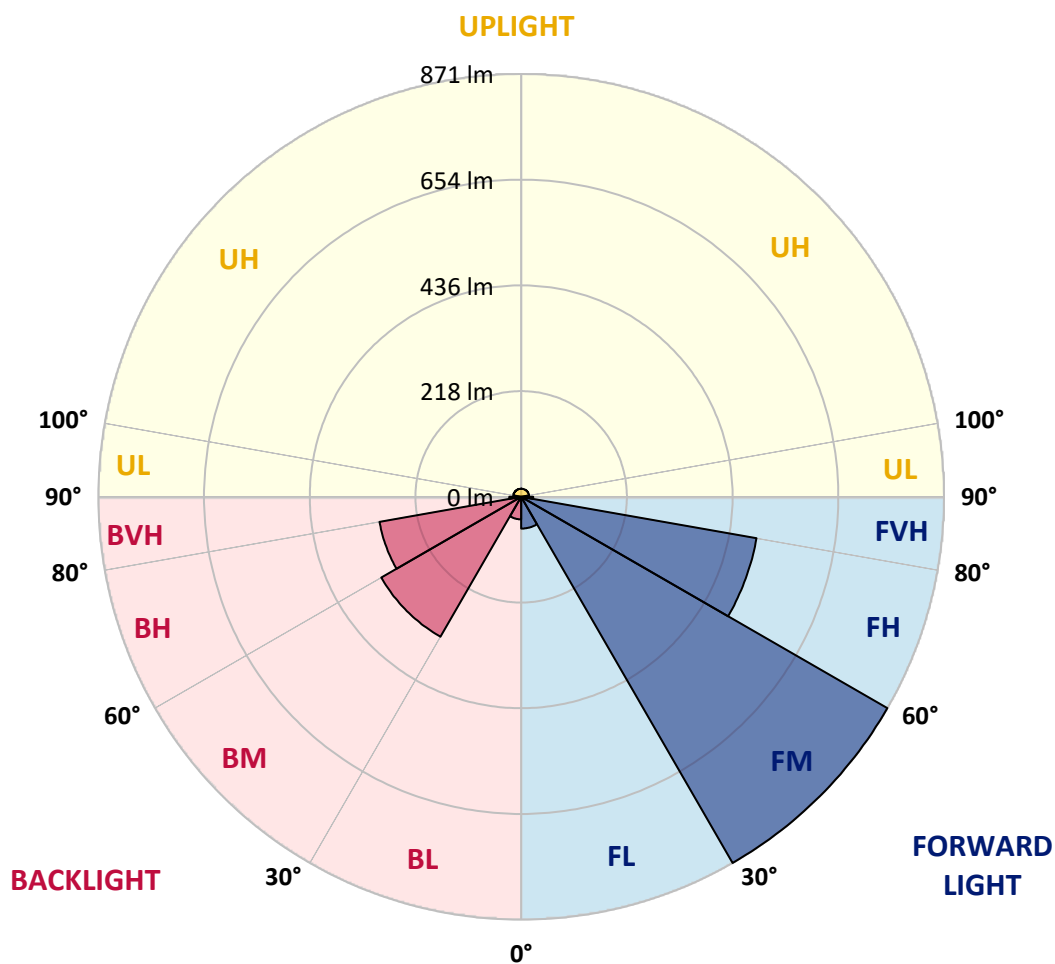
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	65.4	3.0			
FM	(30°-60°)	871.4	39.9			
FH	(60°-80°)	492.4	22.6			G0/660
FVH	(80°-90°)	24.6	1.1			G1/100
BL	(0°-30°)	46.4	2.1	B0/110		
BM	(30°-60°)	332.9	15.3	B1/1000		
BH	(60°-80°)	296.5	13.6	B1/500		G1/500
BVH	(80°-90°)	24.4	1.1			G1/100
UL	(90°-100°)	12.9	0.6		U2/50	
UH	(100°-180°)	16.7	0.8		U2/50	

BUG Rating: B1-U2-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	27.1	25.7	19.3	16.9	14.2	11.6	8.8	7.5	7.2	6.7	6.2
5°	27.1	27.1	28.0	29.6	32.8	29.8	31.4	11.3	10.7	7.2	5.9
7.5°	51.9	50.5	63.5	44.9	28.2	26.3	40.1	24.5	24.5	11.3	6.7
10°	70.2	69.9	85.8	54.8	50.5	61.3	27.1	28.0	28.0	19.3	9.4
12.5°	68.9	68.3	69.4	75.5	63.5	53.7	54.5	35.7	44.6	70.4	72.3
15°	96.8	101.8	96.4	73.9	67.7	67.4	87.1	66.1	67.2	77.3	56.7
17.5°	129.0	129.6	141.1	119.8	94.3	99.8	92.3	92.5	81.7	85.8	95.9
20°	140.6	138.1	144.5	134.1	134.1	119.3	94.1	133.3	143.2	134.6	133.1
22.5°	241.4	240.3	210.3	147.1	152.1	139.6	142.5	155.3	146.0	137.1	134.6
25°	275.3	271.7	261.2	250.7	186.5	195.7	172.5	168.8	179.3	216.4	234.2
27.5°	366.0	370.1	316.1	282.2	251.6	210.5	197.3	242.4	225.0	236.8	234.2
30°	460.6	458.6	439.4	377.4	316.1	261.2	261.7	254.6	242.7	278.9	316.9
32.5°	597.2	604.2	516.8	451.8	395.1	318.0	288.1	338.3	336.2	325.7	340.1
35°	744.5	743.4	672.0	564.7	427.3	359.6	344.2	374.1	366.9	350.7	377.1
37.5°	838.0	827.5	778.9	686.7	522.5	409.8	415.3	437.0	429.7	408.5	457.1
40°	973.5	961.9	903.9	778.6	651.5	496.7	527.0	509.3	485.6	482.0	488.1
42.5°	1023.2	1023.8	967.1	875.9	763.6	620.8	636.8	558.8	534.9	574.9	561.5
45°	1038.8	1036.7	997.1	928.8	836.4	769.1	718.7	648.8	624.6	661.1	675.7
47.5°	1004.6	996.0	1002.5	926.2	913.3	833.9	823.5	774.1	779.4	758.7	792.9
50°	913.0	900.4	917.3	897.4	952.5	904.1	1026.2	838.8	835.9	873.2	915.7
52.5°	770.9	761.4	816.2	799.9	943.9	980.7	1066.5	1025.4	1028.0	1031.5	1008.5
55°	631.6	636.4	678.4	668.6	819.5	997.4	1201.1	1178.3	1193.8	1107.4	1107.6
57.5°	451.0	461.7	537.2	542.9	683.0	877.3	1309.2	1272.7	1312.6	1231.8	1249.8
60°	310.8	317.2	358.1	414.9	512.5	728.3	1251.7	1433.9	1470.2	1358.3	1357.5
62°	241.1	243.7	249.9	322.8	393.5	523.6	1239.0	1474.5	1525.8	1423.9	1401.9
62.5°	223.7	226.6	230.6	293.0	362.8	476.1	1191.7	1483.3	1519.9	1432.3	1409.5
65°	178.9	180.4	171.2	194.8	256.4	284.4	856.3	1441.6	1465.0	1422.0	1387.7
67.5°	165.8	160.9	148.4	141.9	191.9	183.3	466.0	1228.8	1289.3	1361.1	1325.4
70°	137.3	148.0	137.8	126.8	153.2	140.8	197.8	994.5	1011.4	1246.0	1241.1
72.5°	105.1	112.9	121.0	119.6	118.0	113.4	131.4	621.3	671.1	1022.6	1149.3
75°	85.2	88.4	105.3	101.8	104.8	89.8	103.5	295.3	357.5	723.9	999.5
77.5°	68.5	70.7	82.0	79.0	86.9	70.2	82.5	133.9	151.6	416.1	684.5
80°	45.5	46.6	59.6	59.1	63.5	62.1	62.4	93.9	94.8	194.6	358.3
82.5°	33.9	33.4	41.1	41.4	41.1	44.9	42.7	64.3	66.9	95.4	119.1
85°	22.1	21.2	24.5	26.1	25.0	24.7	32.2	45.2	47.0	68.0	70.9
87.5°	12.1	12.9	16.2	16.2	16.9	16.7	26.3	30.1	31.4	45.5	38.1
90°	8.0	8.0	8.8	8.6	9.2	8.8	13.6	17.7	18.0	22.8	20.4
92.5°	7.2	7.7	8.8	8.8	9.8	8.3	12.3	15.1	15.3	18.6	15.7
95°	6.4	6.7	7.5	7.7	8.3	5.9	9.4	12.3	12.7	15.3	12.7
97.5°	5.4	5.9	6.4	6.7	7.5	5.4	7.7	10.0	10.2	11.8	9.8
100°	5.4	5.7	5.7	5.7	6.4	4.6	6.7	8.6	8.8	9.8	8.0
102.5°	5.1	5.4	5.1	4.8	5.4	4.1	5.9	7.2	7.2	7.0	6.7
105°	5.1	5.1	4.3	3.8	4.6	3.8	5.1	5.4	5.4	5.4	6.2
107.5°	4.8	4.8	4.1	3.5	3.8	3.3	4.3	4.6	4.6	4.8	5.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	4.6	4.3	3.5	2.9	2.9	2.9	3.5	3.8	3.8	4.3	6.2
112.5°	4.1	4.1	2.9	2.7	2.7	2.7	3.3	3.5	3.5	4.1	5.9
115°	3.8	3.8	2.9	2.4	2.4	2.4	2.9	3.3	3.3	3.8	5.9
117.5°	4.1	3.8	2.7	2.4	2.1	2.1	2.4	2.9	2.9	3.8	5.9
120°	3.5	3.5	2.7	2.1	1.8	2.1	2.4	2.7	2.9	4.1	5.9
122.5°	3.8	3.5	2.7	1.8	1.8	1.8	2.1	2.7	2.7	3.8	5.4
125°	3.5	3.3	2.4	1.8	1.6	1.8	2.1	2.4	2.7	3.8	5.4
127.5°	3.5	3.3	2.4	1.8	1.6	1.6	2.1	2.4	2.4	3.5	5.1
130°	3.3	3.3	2.1	1.6	1.6	1.6	1.8	2.1	2.1	3.3	4.6
132.5°	2.9	2.7	2.1	1.6	1.3	1.6	1.8	1.8	1.8	2.9	4.3
135°	2.7	2.7	2.1	1.6	1.3	1.3	1.6	1.8	1.8	2.7	3.8
137.5°	2.4	2.4	2.1	1.6	1.3	1.3	1.3	1.6	1.6	2.4	3.3
140°	2.4	2.4	2.1	1.6	1.3	1.3	1.3	1.3	1.3	1.8	2.7
142.5°	2.4	2.4	2.1	1.6	1.3	1.1	1.1	1.1	1.1	1.6	2.1
145°	2.1	2.1	1.8	1.6	1.1	0.8	0.8	1.1	1.1	1.3	1.6
147.5°	2.1	2.1	1.8	1.3	0.8	0.5	0.5	0.8	0.8	1.1	1.3
150°	1.6	1.6	1.6	1.1	0.5	0.0	0.5	0.5	0.5	1.1	1.1
152.5°	1.1	1.1	0.8	0.5	0.2	0.2	0.2	0.5	0.5	0.5	0.8
155°	0.5	0.5	0.5	0.2	0.2	0.0	0.0	0.2	0.2	0.5	0.5
157.5°	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2
160°	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2
162.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2
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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	6.2	5.9	5.9	5.9	6.2	6.2	6.2	5.9	5.7	5.7	5.7
5°	5.7	5.4	5.4	5.4	5.7	5.7	5.7	5.7	5.7	5.7	5.7
7.5°	6.2	5.7	5.7	5.4	5.4	5.7	6.2	9.2	15.9	22.3	26.1
10°	8.6	8.6	7.5	7.0	7.0	10.2	37.9	41.1	41.1	39.0	37.5
12.5°	77.9	61.5	54.3	19.1	15.7	31.6	36.3	34.1	47.3	55.0	58.4
15°	56.5	61.8	66.6	60.0	80.9	33.9	54.8	66.6	89.8	90.8	91.7
17.5°	94.8	102.3	73.9	64.5	75.5	100.3	82.0	84.9	84.9	84.9	85.2
20°	133.7	136.0	141.9	135.7	75.8	105.7	105.1	85.4	96.2	119.8	126.6
22.5°	141.9	146.7	139.8	135.5	160.2	98.7	108.6	136.0	137.5	131.1	134.4
25°	240.8	233.9	205.3	144.5	159.9	137.8	140.3	127.4	130.9	127.2	129.6
27.5°	239.0	235.1	212.3	208.5	167.9	163.2	130.3	147.1	156.1	162.0	160.9
30°	333.8	311.7	246.0	215.2	198.3	156.1	143.2	139.2	138.1	145.1	145.7
32.5°	335.4	332.1	283.3	278.4	204.0	158.0	135.2	127.2	145.1	154.8	153.2
35°	389.2	372.5	323.9	300.5	234.4	148.6	120.7	127.2	130.1	137.1	136.8
37.5°	437.2	432.2	392.3	331.9	225.7	135.5	136.2	135.5	131.9	133.1	133.1
40°	501.3	473.0	437.6	361.2	211.2	145.1	147.1	128.0	124.4	122.6	122.6
42.5°	577.3	529.5	496.7	375.5	200.8	171.0	139.2	125.0	121.5	116.2	115.3
45°	667.1	607.7	558.6	380.0	168.5	177.1	144.5	142.1	130.7	125.7	123.9
47.5°	745.8	697.9	629.8	387.6	195.3	169.1	190.3	161.4	126.0	133.1	131.9
50°	864.1	802.5	679.7	368.5	208.8	164.2	197.8	141.4	129.8	139.2	138.6
52.5°	968.7	910.0	732.1	339.7	197.5	227.2	175.5	162.0	150.6	145.7	145.1
55°	1078.1	1019.4	767.6	325.1	195.1	181.7	182.5	175.5	136.0	146.5	146.2
57.5°	1203.8	1171.6	844.8	319.0	200.0	160.5	182.5	146.7	155.0	146.5	148.0
60°	1271.0	1271.0	889.6	312.8	184.6	164.8	156.7	161.2	134.6	136.2	140.6
62°	1327.5	1342.5	930.8	296.4	184.1	138.1	154.0	142.5	131.6	139.8	145.1
62.5°	1346.5	1358.1	943.1	293.3	188.7	130.9	142.7	142.1	136.6	137.5	142.5
65°	1365.0	1418.5	972.6	272.8	173.6	123.7	122.1	134.9	118.2	113.2	113.4
67.5°	1347.3	1421.0	962.7	219.6	140.8	106.2	107.7	112.6	106.7	104.8	105.9
70°	1282.6	1312.4	861.4	181.2	121.5	97.2	103.5	99.4	97.8	97.6	97.2
72.5°	1193.8	1137.2	676.6	136.2	104.6	84.3	88.7	91.7	92.3	90.8	89.3
75°	1007.1	893.0	441.3	102.1	83.6	71.4	80.9	83.4	85.4	81.7	80.5
77.5°	691.3	563.1	228.5	81.2	72.3	60.0	70.9	74.8	76.9	71.2	72.0
80°	320.9	257.0	105.7	66.4	60.0	49.7	60.2	65.0	68.0	60.4	57.8
82.5°	108.2	98.9	63.7	51.4	49.1	37.9	48.6	54.3	55.0	50.3	42.7
85°	64.5	64.8	44.6	39.6	36.3	23.6	35.0	42.7	42.7	35.5	29.1
87.5°	37.0	41.6	34.1	30.1	27.1	16.2	26.1	29.3	28.7	22.6	16.2
90°	18.6	21.8	20.1	19.8	20.4	10.2	20.4	22.1	22.1	15.7	10.0
92.5°	13.6	16.7	18.0	16.9	17.2	7.7	16.4	16.7	16.4	12.1	7.7
95°	11.6	14.5	18.0	16.9	16.4	6.4	15.1	15.3	15.7	11.8	8.6
97.5°	9.2	11.0	13.9	13.6	14.7	5.4	13.6	13.6	13.2	9.8	7.2
100°	8.3	9.8	11.8	11.8	12.9	4.8	12.1	11.0	10.5	7.7	6.7
102.5°	7.0	7.7	9.2	8.8	9.8	4.6	8.8	8.6	8.0	6.7	6.4
105°	6.7	7.0	7.0	6.4	6.7	4.3	6.2	5.9	5.7	5.7	5.9
107.5°	6.4	6.4	5.9	5.4	5.4	4.1	4.6	4.3	4.6	5.9	6.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	6.4	6.4	5.4	4.8	4.3	3.8	4.1	3.5	4.1	5.9	6.4
112.5°	6.4	6.4	4.8	4.1	4.1	3.5	3.5	3.3	3.8	5.9	6.4
115°	6.2	6.2	4.6	3.8	3.5	3.3	3.3	2.9	3.8	5.9	6.4
117.5°	6.2	6.2	4.6	3.8	3.3	2.9	2.9	2.7	3.8	6.2	6.4
120°	6.2	6.2	4.6	3.5	3.3	2.9	2.7	2.7	3.8	5.9	6.4
122.5°	5.9	5.7	4.3	3.3	2.9	2.7	2.7	2.7	3.8	6.2	6.4
125°	5.7	5.4	4.3	3.3	2.7	2.7	2.4	2.4	3.8	5.9	6.2
127.5°	5.4	5.4	4.1	2.9	2.7	2.4	2.4	2.4	3.8	6.2	6.2
130°	5.1	4.8	3.8	2.7	2.4	2.1	2.1	2.4	4.1	5.7	5.9
132.5°	4.6	4.3	3.5	2.4	2.1	2.1	2.1	2.1	3.8	5.7	5.7
135°	3.8	3.8	2.9	2.1	1.8	1.8	1.8	2.1	3.5	4.8	5.1
137.5°	3.5	3.3	2.7	2.1	1.6	1.8	1.8	2.1	3.5	4.6	4.8
140°	2.9	2.7	2.1	1.6	1.6	1.6	1.6	1.8	2.9	4.1	4.3
142.5°	2.1	2.1	1.8	1.3	1.3	1.3	1.3	1.8	2.7	3.5	3.5
145°	1.8	1.8	1.6	1.3	1.1	0.8	0.8	1.3	2.1	2.9	2.9
147.5°	1.3	1.3	1.3	1.1	0.8	0.8	0.8	1.1	1.6	2.1	2.1
150°	1.1	1.1	1.1	0.8	0.8	0.5	0.5	0.8	1.3	1.6	1.6
152.5°	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.8	1.1	1.1
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.5
157.5°	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.0	0.0	0.0
160°	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.0	0.0	0.0
162.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.2	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)