

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: P266355

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T4W-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3210.4 lumens
Efficiency: N/A
Efficacy: 80.3 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: B1 - U3 - G3

Input Watts (W): 40
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



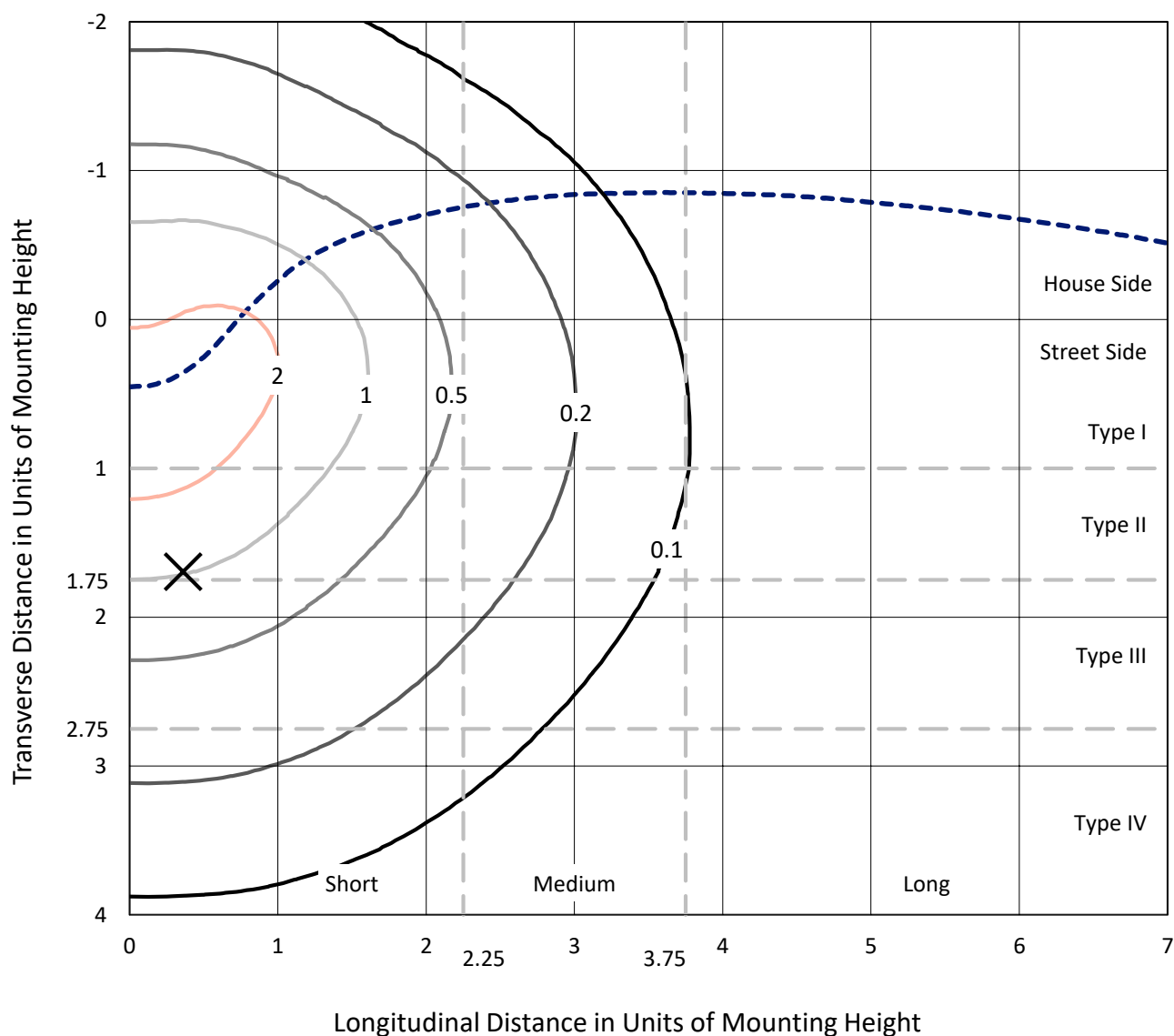
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

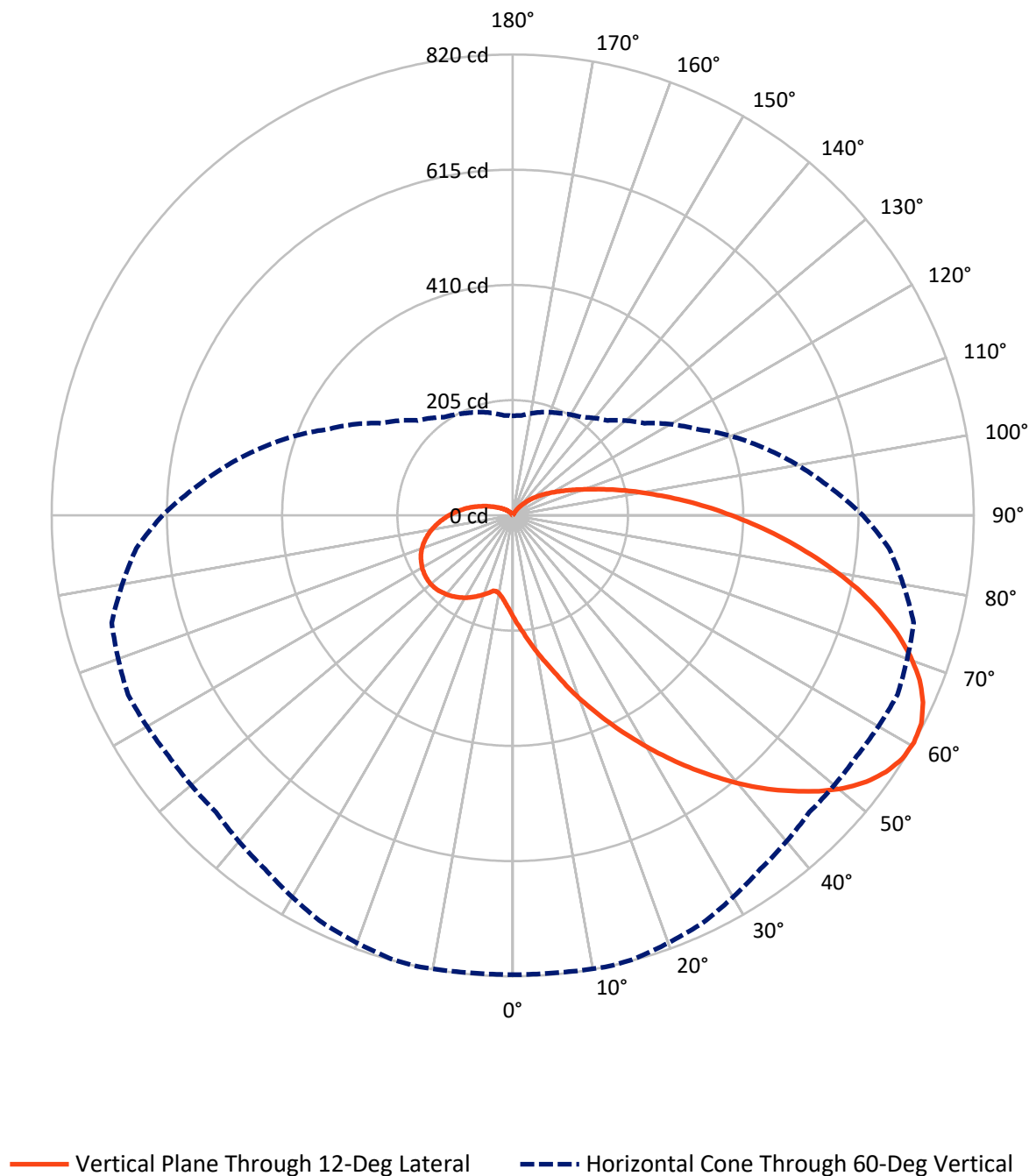


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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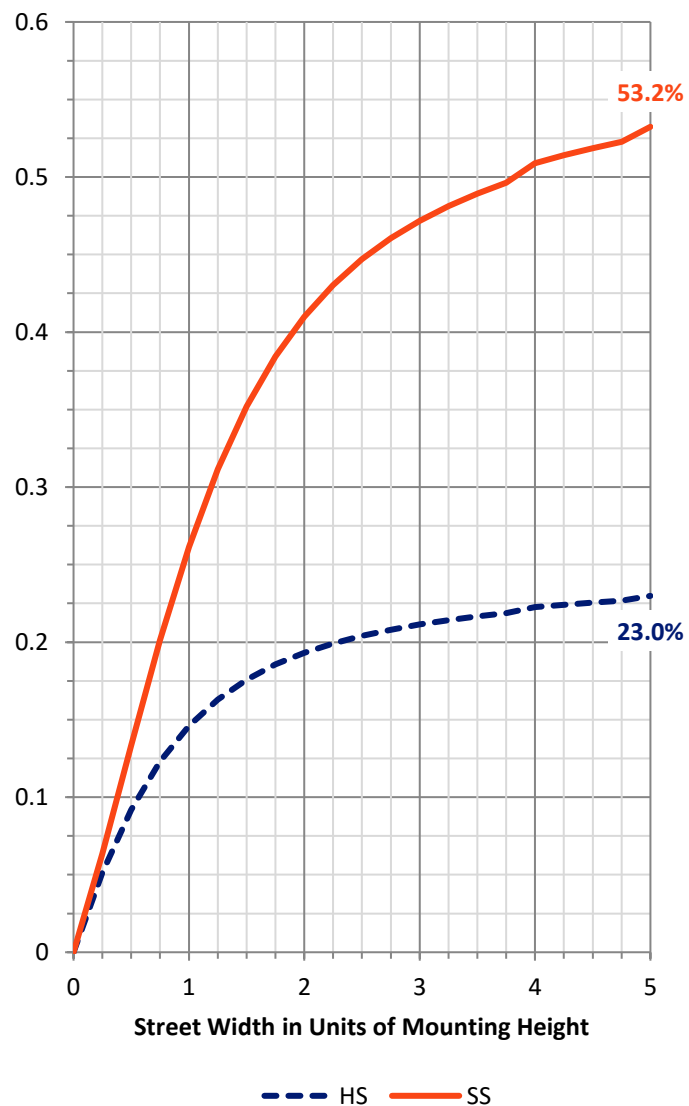
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	789.3	181.8	971.1
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	1862.7	376.7	2239.4
	% Fixture	58.0	11.7	69.8
Total	Lumens	2652.0	558.5	3210.4
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	0.6
10°-20°	63.0	2.0
20°-30°	135.0	4.2
30°-40°	236.4	7.4
40°-50°	356.0	11.1
50°-60°	464.8	14.5
60°-70°	517.6	16.1
70°-80°	483.2	15.1
80°-90°	378.0	11.8
90°-100°	255.5	8.0
100°-110°	154.4	4.8
110°-120°	85.1	2.6
120°-130°	42.3	1.3
130°-140°	16.9	0.5
140°-150°	4.1	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2652.0	82.6
0°-180°	3210.4	100.0

Coefficient of Utilization



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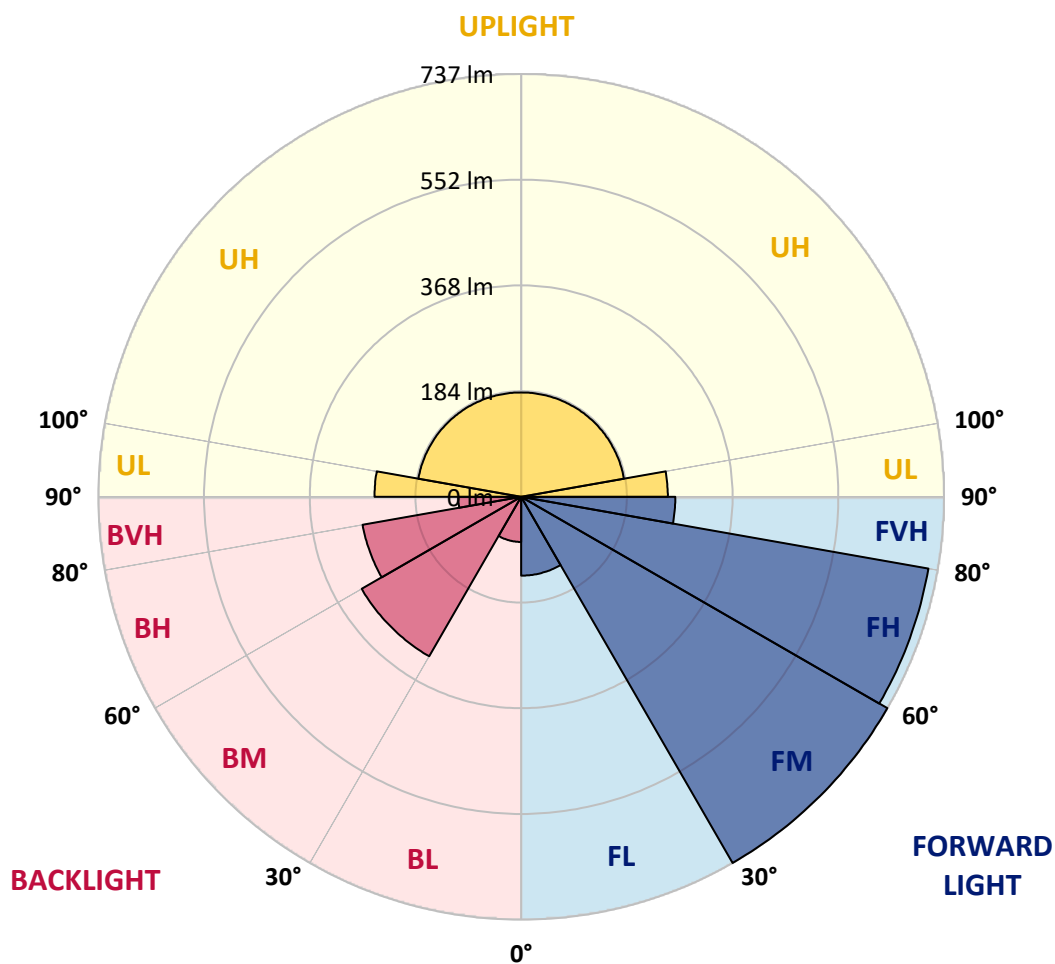
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.3	4.3			
FM	(30°-60°)	736.5	22.9			
FH	(60°-80°)	720.4	22.4			G1/1800
FVH	(80°-90°)	268.4	8.4			G3/500
BL	(0°-30°)	78.7	2.4	B0/110		
BM	(30°-60°)	320.6	10.0	B1/1000		
BH	(60°-80°)	280.4	8.7	B1/500		G1/500
BVH	(80°-90°)	109.6	3.4			G2/225
UL	(90°-100°)	255.5	8.0		U3/500	
UH	(100°-180°)	181.8	5.7		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0
2.5°	196.6	195.9	195.9	195.0	195.0	193.3	192.1	189.9	187.7	185.2	183.2
5°	212.4	212.4	211.6	211.6	209.8	206.9	203.9	200.1	196.3	192.1	186.9
7.5°	231.1	230.8	230.8	229.4	227.4	223.0	218.7	213.3	207.4	200.1	193.3
10°	250.3	249.8	249.8	248.6	246.0	240.9	234.5	228.2	220.5	211.1	201.8
12.5°	273.3	271.5	270.7	270.2	266.0	261.2	253.2	245.5	235.4	224.8	213.3
15°	297.3	297.0	294.5	293.1	289.0	281.7	274.1	264.7	254.5	242.6	228.6
17.5°	324.6	324.6	322.9	321.2	316.6	306.7	297.0	288.0	277.8	263.5	247.8
20°	353.9	353.9	351.7	349.3	343.3	334.8	325.0	314.3	302.1	286.4	267.2
22.5°	385.0	384.0	381.2	379.4	372.2	362.8	355.2	342.9	328.4	310.5	288.4
25°	417.6	416.4	413.4	411.8	403.2	396.1	387.1	372.5	356.1	335.6	311.1
27.5°	452.0	448.7	446.5	444.0	435.9	428.8	416.4	402.8	383.7	362.5	335.2
30°	485.3	483.9	481.4	478.0	470.7	462.3	448.7	433.8	415.0	391.8	361.6
32.5°	523.1	521.7	517.6	514.1	504.8	495.9	481.9	466.1	446.1	421.5	388.7
35°	560.8	559.1	554.4	550.7	542.9	529.8	513.2	498.4	478.3	453.4	418.2
37.5°	599.9	596.6	591.4	588.8	579.5	563.3	546.0	529.8	511.6	486.1	447.9
40°	636.9	635.2	629.3	626.3	616.1	596.0	577.0	562.6	546.0	519.2	478.8
42.5°	674.6	671.8	665.7	662.8	650.9	627.9	608.1	594.4	580.3	554.1	510.2
45°	708.3	707.0	699.8	698.1	683.6	658.9	636.0	624.1	611.8	586.8	539.2
47.5°	741.0	738.0	733.3	731.2	714.2	686.1	663.7	653.4	643.2	620.3	570.2
50°	767.7	767.3	763.1	760.5	741.0	710.4	687.5	679.4	673.9	651.8	598.2
52.5°	790.7	790.2	787.8	785.2	764.4	732.5	708.8	702.7	701.0	680.6	622.9
55°	806.9	806.4	805.6	803.1	782.7	749.9	726.5	721.9	724.0	704.9	645.0
57.5°	816.2	815.8	817.1	814.9	794.1	761.9	738.9	737.6	742.7	725.2	661.5
60°	817.1	817.1	820.1	818.7	800.0	768.2	746.5	746.9	755.0	738.4	672.1
62.5°	809.5	809.5	815.8	814.6	798.4	767.7	747.7	751.3	761.4	745.7	676.0
65°	792.8	794.9	802.1	802.1	789.4	761.9	743.5	748.6	761.0	745.2	673.4
67.5°	766.4	770.7	780.9	781.7	772.8	748.6	732.5	739.8	753.3	736.7	662.8
70°	733.7	739.8	750.4	753.3	749.5	729.6	715.9	724.5	737.6	721.0	645.4
72.5°	695.5	701.0	714.6	718.0	719.4	703.6	693.0	703.2	713.9	695.9	621.2
75°	653.1	657.6	673.0	676.5	682.0	673.0	666.3	674.3	686.1	664.0	590.1
77.5°	601.7	609.7	626.7	630.5	641.1	636.9	631.8	641.6	650.6	627.1	554.1
80°	551.9	562.1	576.2	583.8	596.6	596.0	597.0	603.3	610.9	585.4	515.0
82.5°	501.3	508.6	525.1	532.3	551.9	556.6	556.6	565.0	567.5	539.2	472.9
85°	450.4	458.9	475.5	482.7	503.9	514.1	517.1	521.3	521.7	492.0	429.6
87.5°	405.3	410.4	426.2	435.0	458.0	470.0	473.8	478.8	475.5	446.1	385.0
90°	360.3	365.0	380.3	387.4	412.5	426.5	435.0	437.1	430.4	399.3	344.1
92.5°	318.2	322.9	337.4	345.8	370.6	385.4	393.5	395.2	387.4	356.1	304.6
95°	281.3	281.3	297.0	303.4	330.9	347.6	355.2	355.2	344.6	313.6	266.8
97.5°	246.4	247.3	259.6	267.6	293.1	310.5	318.7	319.1	304.3	274.9	234.9
100°	215.0	216.2	227.7	234.9	259.6	277.8	285.1	283.9	268.6	238.4	203.0
102.5°	189.1	189.1	198.9	204.9	228.2	246.4	253.2	250.6	234.9	206.2	177.1
105°	165.6	166.5	173.0	178.9	201.0	218.0	224.8	221.0	204.9	176.7	154.7
107.5°	147.1	146.6	150.8	155.0	175.9	192.1	197.9	193.3	176.3	151.3	134.2
110°	128.3	128.7	132.1	135.1	154.1	169.5	173.8	170.0	150.8	128.7	116.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	113.5	113.5	116.1	118.5	132.1	147.1	152.2	146.6	128.3	109.2	101.6
115°	100.7	101.1	102.0	103.2	114.8	128.3	132.6	125.8	107.9	93.5	88.4
117.5°	89.7	89.7	90.1	91.4	98.5	110.9	113.8	106.7	91.4	79.9	77.8
120°	80.3	79.9	79.5	79.9	85.0	94.0	96.8	89.7	76.0	69.3	67.6
122.5°	71.3	71.3	70.5	71.0	72.3	79.1	81.1	74.4	64.1	59.8	59.5
125°	62.9	62.9	62.1	61.7	61.2	64.6	65.4	60.4	53.1	51.8	51.5
127.5°	54.7	55.2	54.0	53.4	51.8	52.2	52.7	48.0	43.7	44.1	44.6
130°	48.0	48.0	46.7	46.0	43.4	41.2	40.3	37.4	35.8	37.4	38.6
132.5°	41.6	40.9	40.0	39.0	35.3	32.2	30.6	28.0	28.8	31.4	32.7
135°	34.9	34.5	33.1	32.7	28.8	24.3	21.2	20.4	22.9	26.0	26.8
137.5°	28.4	28.4	27.2	26.3	22.1	17.3	14.5	14.5	17.3	20.4	22.1
140°	22.5	22.5	21.2	20.4	16.6	11.9	9.0	9.3	12.8	15.7	17.0
142.5°	17.0	17.0	15.7	15.4	11.9	7.6	5.1	6.0	9.0	11.5	12.8
145°	12.3	11.9	11.0	10.6	7.6	4.8	2.5	3.5	5.5	7.6	9.0
147.5°	8.1	8.1	7.2	6.7	4.8	2.5	0.9	1.6	3.5	4.8	6.0
150°	4.8	4.8	4.2	3.9	2.5	0.9	0.0	0.9	1.6	2.5	3.5
152.5°	2.5	2.5	2.2	2.2	0.9	0.4	0.0	0.0	0.4	1.3	1.3
155°	0.9	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0
2.5°	181.8	180.6	178.0	175.9	173.8	171.2	170.0	168.7	167.9	166.9	166.9
5°	184.4	181.8	177.1	172.6	168.3	164.4	161.1	158.6	157.3	156.3	155.9
7.5°	189.9	186.0	178.5	171.2	164.8	158.9	154.1	150.3	148.3	147.1	146.6
10°	197.2	191.6	181.8	172.0	163.6	155.9	149.6	144.8	141.9	140.7	139.7
12.5°	206.9	200.1	187.3	175.1	164.0	154.7	146.6	141.6	138.5	136.8	136.8
15°	221.8	212.9	197.2	180.6	166.9	155.4	146.6	141.0	139.0	138.1	137.7
17.5°	238.8	228.6	209.5	190.4	173.0	158.6	150.3	147.1	144.1	142.8	142.8
20°	257.5	245.1	223.0	201.4	181.8	166.9	158.0	152.5	149.1	147.9	147.4
22.5°	276.1	263.5	237.5	212.9	191.2	178.0	165.3	158.6	154.1	152.5	152.2
25°	297.3	283.3	252.9	225.1	204.4	189.5	174.6	164.8	159.3	157.3	156.8
27.5°	320.3	303.7	269.9	238.4	217.1	199.8	183.2	170.0	164.4	161.9	161.4
30°	344.1	325.8	286.7	252.0	229.4	208.6	191.2	176.3	169.2	166.1	165.6
32.5°	369.3	347.6	305.1	268.1	240.9	216.8	197.9	182.3	173.4	170.0	170.0
35°	397.3	372.2	322.9	283.0	251.5	224.8	203.9	187.7	177.1	173.8	173.8
37.5°	424.0	396.8	342.1	299.1	261.2	231.1	208.6	192.9	181.0	176.7	176.7
40°	452.4	421.5	360.3	312.3	269.9	236.3	212.9	196.6	184.0	180.1	179.3
42.5°	480.1	446.1	379.9	325.8	276.9	240.4	216.2	200.1	186.5	181.8	181.4
45°	509.0	470.7	398.6	337.0	283.0	243.4	218.0	202.3	189.5	183.6	182.6
47.5°	534.0	494.2	416.9	346.7	287.6	245.1	219.2	203.9	191.2	184.4	183.6
50°	559.1	515.0	432.2	354.8	290.2	246.0	219.6	204.4	192.4	184.4	183.6
52.5°	581.7	534.5	445.3	360.3	291.5	245.5	219.2	204.4	192.9	183.6	182.6
55°	600.3	550.2	454.6	363.8	291.5	244.2	218.0	203.6	192.4	182.6	181.4
57.5°	614.4	560.8	461.0	364.5	289.3	241.7	215.9	202.3	191.2	181.0	179.3
60°	622.9	566.8	463.2	362.5	285.9	238.8	213.3	200.5	189.9	178.5	177.1
62.5°	625.4	567.5	461.0	358.2	281.3	234.5	209.5	197.5	187.3	175.4	174.2
65°	621.2	563.0	455.0	351.3	274.9	229.4	205.6	194.2	184.4	172.0	170.8
67.5°	609.7	552.7	444.4	342.1	267.6	223.5	201.4	190.4	181.0	168.3	165.6
70°	592.7	537.5	430.8	330.5	259.3	217.1	196.3	185.7	176.3	164.0	161.4
72.5°	568.1	516.6	413.0	316.6	249.4	210.4	189.9	180.1	171.2	158.9	155.4
75°	538.4	489.8	391.8	302.1	239.2	202.3	183.6	174.2	165.3	152.9	149.9
77.5°	505.1	461.9	368.8	285.5	227.4	194.2	176.7	167.9	158.6	146.6	142.3
80°	469.0	429.1	343.7	268.6	216.2	185.2	169.2	160.5	151.3	139.7	135.1
82.5°	430.0	395.2	318.7	251.5	203.9	176.3	161.4	152.9	143.2	132.1	127.5
85°	391.8	360.3	292.3	233.3	192.1	166.9	152.9	144.4	135.6	124.1	119.8
87.5°	352.2	325.0	266.3	215.5	180.1	158.0	144.8	136.0	126.7	116.1	112.6
90°	317.8	291.9	242.2	198.4	167.9	148.3	136.5	127.0	118.0	107.9	104.9
92.5°	281.3	260.0	218.4	182.3	156.3	139.0	127.9	118.9	109.2	99.4	97.2
95°	249.8	232.4	196.6	166.1	144.1	130.1	119.4	110.0	100.3	90.9	89.7
97.5°	219.6	205.3	175.4	151.3	133.4	120.6	110.5	101.6	91.4	82.9	81.9
100°	192.9	180.1	156.3	137.7	121.9	111.7	102.3	93.1	82.9	74.7	74.7
102.5°	168.3	158.6	139.3	123.6	111.7	102.0	93.5	84.1	73.9	67.2	67.6
105°	148.3	139.0	123.2	111.3	101.6	92.6	84.5	75.2	65.4	59.8	60.4
107.5°	129.1	121.9	109.2	99.1	91.4	84.1	75.6	66.7	57.0	53.4	54.0
110°	112.6	107.1	96.8	88.4	82.5	75.6	68.0	58.6	49.6	47.6	47.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	98.2	93.5	85.8	79.1	73.1	67.6	59.5	50.9	42.5	41.6	41.6
115°	85.8	82.5	75.2	69.7	65.4	59.8	52.7	43.7	37.0	36.6	37.0
117.5°	75.2	72.3	66.3	61.7	57.9	52.7	46.0	37.4	31.4	31.9	32.2
120°	65.8	63.7	58.6	54.7	50.9	46.4	39.0	31.4	27.6	28.0	28.0
122.5°	58.2	56.1	51.8	48.0	44.6	40.0	33.5	26.3	23.7	24.7	24.7
125°	50.6	49.2	45.0	41.6	38.3	33.5	27.6	21.6	20.4	21.2	21.2
127.5°	43.7	42.8	39.5	35.8	32.2	28.0	22.5	17.8	17.3	18.2	18.2
130°	37.8	37.0	34.0	30.6	26.8	22.9	17.3	14.5	14.9	15.7	16.1
132.5°	32.2	31.9	28.8	25.1	21.6	17.8	13.7	11.9	12.8	13.7	13.7
135°	26.8	26.3	24.3	20.8	17.0	13.7	10.2	9.3	10.6	11.5	11.5
137.5°	22.1	21.2	19.6	16.1	12.8	9.8	7.2	7.6	8.5	9.3	9.3
140°	17.3	17.0	15.4	12.3	9.0	6.4	5.1	6.0	7.2	7.6	7.6
142.5°	12.8	12.8	11.0	8.5	5.5	3.9	3.5	4.2	5.5	6.0	6.0
145°	9.0	9.0	7.6	5.5	3.5	1.6	1.6	3.0	3.9	4.2	4.8
147.5°	6.0	5.5	4.8	3.5	1.6	0.4	0.9	2.2	2.5	3.0	3.0
150°	3.5	3.5	2.5	1.6	0.9	0.0	0.4	0.9	1.3	1.6	2.2
152.5°	1.3	1.3	0.9	0.4	0.4	0.0	0.0	0.0	0.4	0.9	0.9
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.0	0.4	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)