

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: P266294

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-5WQ-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2793.3 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 31
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

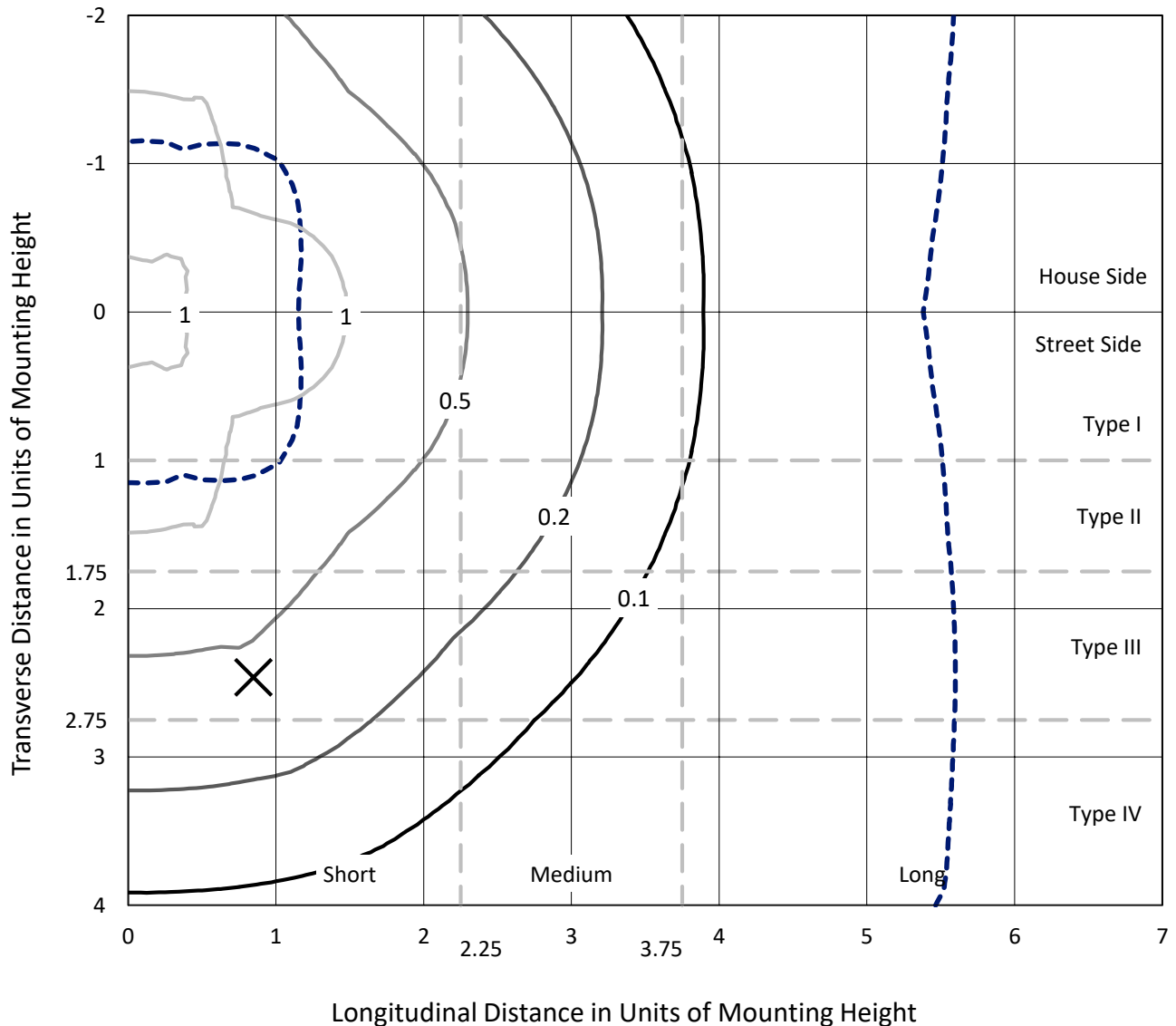


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

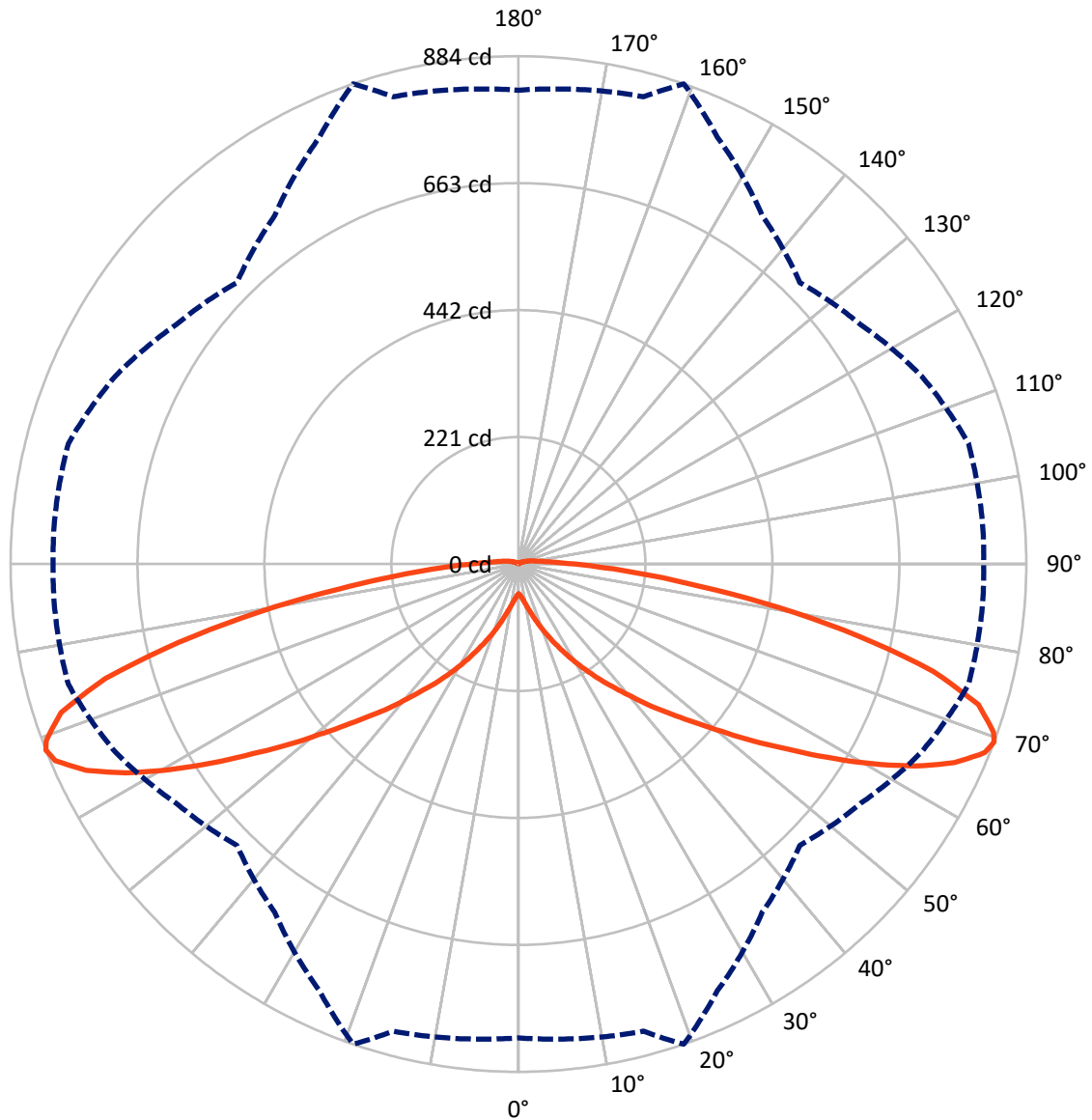


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 19-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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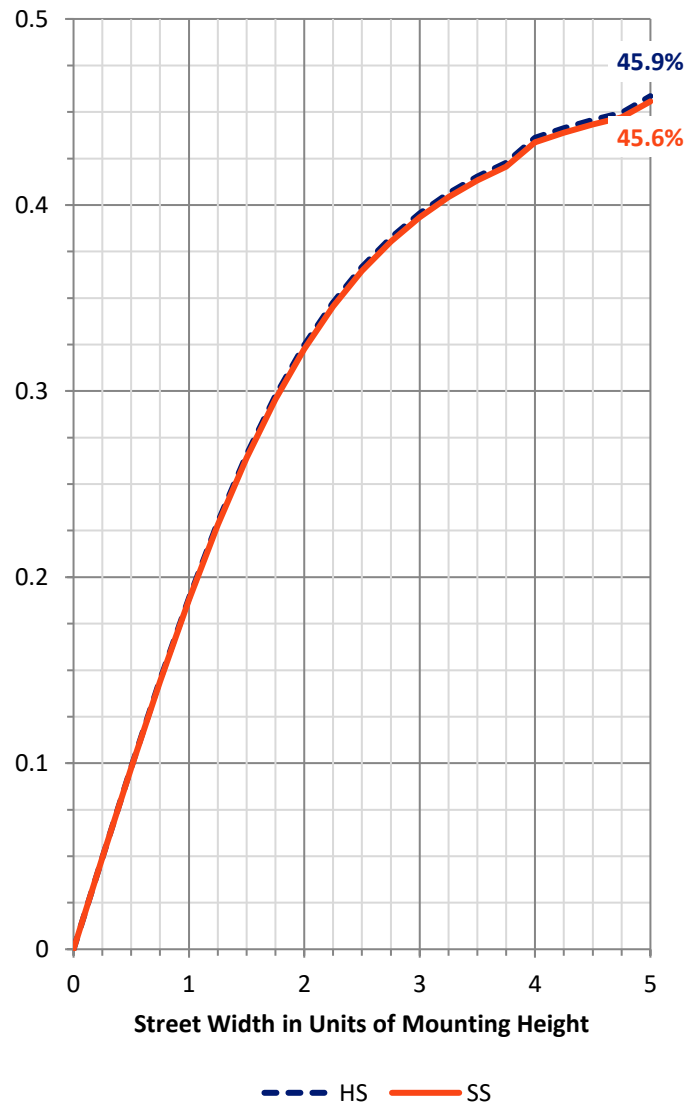
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1340.0	56.7	1396.6
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	1340.0	56.7	1396.6
	% Fixture	48.0	2.0	50.0
Total	Lumens	2680.0	113.3	2793.3
	% Fixture	95.9	4.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.2
10°-20°	24.9	0.9
20°-30°	68.0	2.4
30°-40°	143.8	5.1
40°-50°	262.6	9.4
50°-60°	458.7	16.4
60°-70°	719.1	25.7
70°-80°	709.4	25.4
80°-90°	287.7	10.3
90°-100°	69.3	2.5
100°-110°	25.3	0.9
110°-120°	10.6	0.4
120°-130°	4.9	0.2
130°-140°	2.3	0.1
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2680.0	95.9
0°-180°	2793.3	100.0



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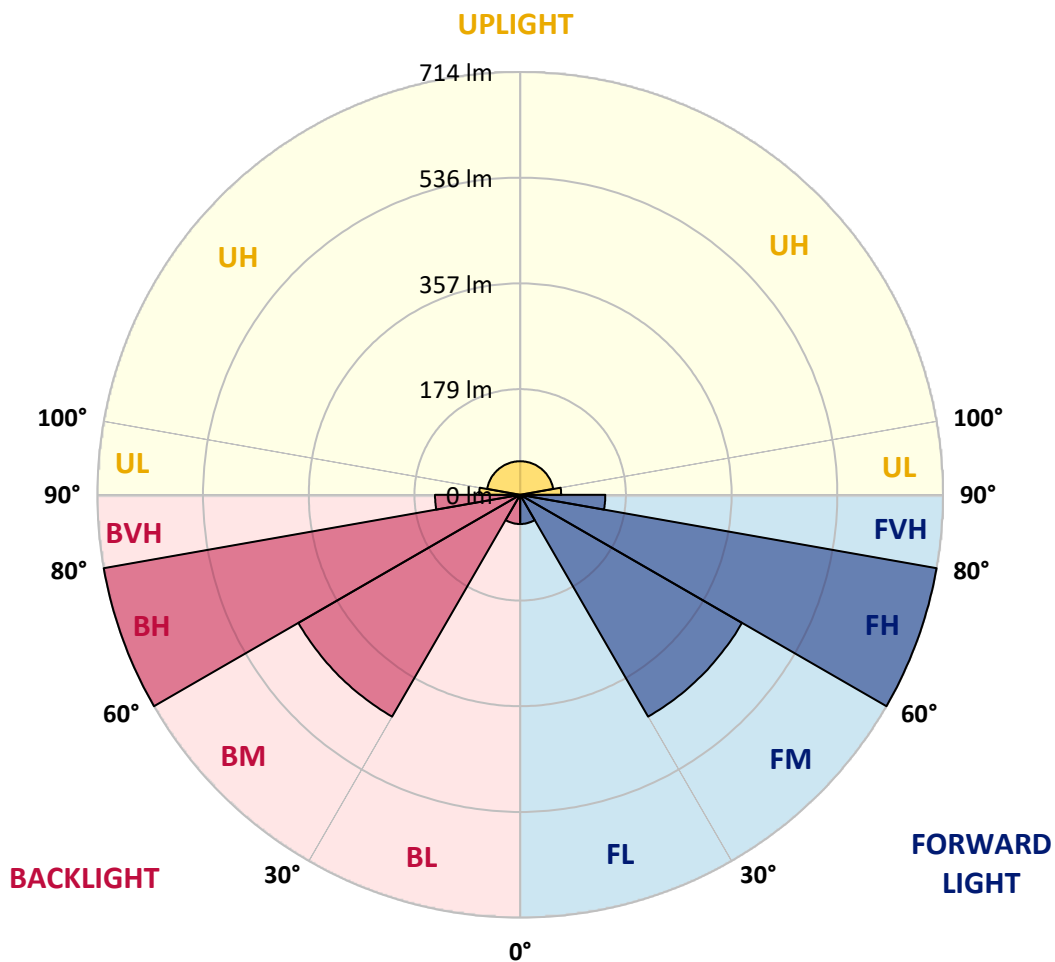
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	49.3	1.8			
FM	(30°-60°)	432.6	15.5			
FH	(60°-80°)	714.2	25.6			G1/1800
FVH	(80°-90°)	143.8	5.1			G2/225
BL	(0°-30°)	49.3	1.8	B0/110		
BM	(30°-60°)	432.6	15.5	B1/1000		
BH	(60°-80°)	714.2	25.6	B2/1000		G1/1800
BVH	(80°-90°)	143.8	5.1			G2/225
UL	(90°-100°)	69.3	2.5		U3/500	
UH	(100°-180°)	56.7	2.0		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
2.5°	52.7	52.7	52.7	54.1	52.7	52.7	52.7	52.7	52.7	52.7	52.5
5°	55.4	55.4	55.4	58.5	55.4	55.1	55.1	55.4	55.1	55.1	55.1
7.5°	60.5	60.1	60.1	64.1	60.1	59.7	59.5	59.5	59.5	59.2	59.2
10°	67.3	67.0	66.6	72.0	66.3	65.8	65.5	65.2	65.2	65.2	65.5
12.5°	76.0	76.0	75.4	81.4	74.3	73.3	72.7	72.4	72.7	73.0	73.3
15°	87.1	87.6	86.4	93.0	84.1	82.5	81.4	81.4	82.1	83.2	84.1
17.5°	102.0	101.7	99.7	107.4	96.9	93.7	91.3	91.5	94.0	96.7	98.4
20°	118.2	117.3	115.0	122.7	110.9	105.8	103.0	103.8	107.7	112.2	114.5
22.5°	136.3	135.1	131.8	139.5	125.8	119.3	116.6	117.6	122.7	129.0	133.8
25°	155.8	155.4	150.7	157.8	141.7	133.8	130.2	132.5	139.5	149.4	155.0
27.5°	177.4	176.7	170.7	178.5	159.4	150.0	145.6	148.0	157.5	170.3	179.4
30°	201.1	200.4	192.0	200.4	178.5	166.2	161.2	164.8	176.3	193.7	203.7
32.5°	226.5	225.7	215.2	223.4	199.3	183.9	177.1	182.1	197.0	216.0	229.4
35°	253.1	251.4	240.6	248.4	221.7	202.1	193.9	201.8	218.3	240.6	255.7
37.5°	281.9	279.8	267.2	274.1	245.0	222.7	213.5	220.7	241.6	265.3	283.9
40°	311.6	309.8	294.6	303.4	271.6	244.7	233.9	242.6	266.6	291.6	311.0
42.5°	343.1	341.4	326.8	337.9	300.5	268.7	256.1	267.2	293.3	321.1	342.0
45°	375.4	374.8	360.8	371.7	331.6	296.7	282.4	295.4	323.7	354.6	374.8
47.5°	414.9	411.0	400.5	411.0	368.7	331.1	313.6	327.2	358.6	392.0	412.3
50°	454.2	453.6	444.4	457.1	410.5	366.7	347.4	362.9	398.8	433.3	452.4
52.5°	500.9	502.2	492.5	511.7	459.3	411.7	388.6	406.3	446.1	479.5	498.5
55°	550.8	551.5	547.4	568.1	511.7	458.2	433.9	453.1	494.1	530.9	548.9
57.5°	609.0	608.3	607.0	635.3	573.1	514.0	483.8	507.3	549.9	587.0	601.9
60°	666.5	666.5	669.7	705.3	638.1	571.4	536.6	563.3	608.3	647.5	658.3
62.5°	728.5	729.7	732.7	774.2	700.1	629.9	590.0	619.1	669.7	706.0	714.7
65°	779.3	784.0	790.8	833.6	762.0	682.9	641.1	671.8	723.9	759.6	765.0
67.5°	816.1	818.4	831.3	875.8	807.7	725.2	679.3	711.0	762.4	798.9	802.2
69°	824.6	829.9	841.8	883.8	819.4	739.8	692.5	726.5	773.9	810.7	810.7
70°	820.8	827.6	841.8	877.3	822.2	744.4	698.2	730.0	776.2	810.4	809.4
72.5°	780.0	784.7	809.1	837.0	801.6	735.1	695.5	722.9	755.2	778.9	772.8
75°	693.9	698.5	725.9	745.9	737.0	690.3	662.3	680.2	695.7	698.2	686.7
77.5°	560.6	567.6	605.5	607.0	633.2	615.0	600.2	606.5	596.7	586.0	561.0
80°	423.1	428.1	462.9	459.7	503.2	514.6	513.0	509.2	479.9	445.6	417.7
82.5°	293.3	297.3	332.3	316.7	373.8	401.5	411.2	398.4	353.8	315.2	290.3
85°	187.8	194.7	222.1	211.9	262.6	296.0	310.5	290.6	248.4	211.2	190.3
87.5°	121.7	124.3	144.3	135.9	174.5	208.9	224.3	208.1	170.7	139.5	122.0
90°	78.4	81.4	94.0	87.6	116.6	143.5	156.8	141.7	115.6	93.7	81.4
92.5°	54.7	57.1	64.1	60.5	78.4	99.1	110.9	99.1	80.0	66.3	57.4
95°	42.0	42.8	48.0	44.6	57.1	71.7	78.7	71.7	58.5	49.6	43.6
97.5°	33.1	33.7	37.5	34.9	42.8	53.4	58.7	53.7	44.9	38.8	34.1
100°	26.7	26.9	30.1	28.7	34.5	42.0	45.6	42.2	36.1	31.1	27.4
102.5°	21.6	21.6	24.7	24.0	28.3	33.7	36.6	34.9	29.7	25.3	21.6
105°	17.2	17.2	19.9	19.9	23.6	27.7	30.1	28.3	24.3	20.3	17.2
107.5°	13.6	13.8	15.9	15.9	19.7	22.9	24.7	23.4	19.9	15.9	13.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	10.8	11.1	12.8	13.1	16.2	19.3	20.7	19.3	16.2	12.4	10.5
112.5°	8.9	8.9	10.5	10.5	13.1	15.9	16.9	15.9	13.1	9.8	8.4
115°	7.5	7.5	8.4	8.4	10.8	13.1	14.3	13.1	10.5	8.2	7.0
117.5°	6.4	6.4	7.0	7.0	9.2	11.1	11.9	10.8	8.9	6.7	6.1
120°	5.7	5.7	6.1	6.1	7.5	9.2	9.8	9.2	7.0	5.7	5.4
122.5°	5.1	5.1	5.4	5.1	6.4	7.7	8.2	7.5	6.1	5.1	4.8
125°	4.8	4.8	4.8	4.4	5.4	6.4	6.7	6.1	5.1	4.4	4.4
127.5°	4.0	4.0	4.0	3.8	4.4	5.4	5.7	5.1	4.4	4.0	3.8
130°	3.8	3.8	3.8	3.4	4.0	4.4	4.8	4.4	3.8	3.8	3.8
132.5°	3.4	3.4	3.4	3.1	3.4	3.8	3.8	3.4	3.1	3.1	3.4
135°	3.1	3.1	3.1	2.8	2.8	2.8	3.1	2.8	2.8	2.8	3.1
137.5°	2.8	2.8	2.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8
140°	2.3	2.3	2.3	1.6	2.1	1.6	1.6	1.6	2.1	2.1	2.3
142.5°	2.1	2.1	1.6	1.6	1.6	1.3	1.0	1.3	1.3	1.6	2.1
145°	1.6	1.6	1.3	1.3	1.3	1.0	0.7	0.7	1.3	1.3	1.3
147.5°	1.3	1.3	1.0	1.0	1.0	0.7	0.3	0.7	1.0	1.0	1.3
150°	1.0	1.0	0.7	0.7	0.7	0.3	0.3	0.3	0.7	0.7	1.0
152.5°	0.7	0.7	0.7	0.3	0.3	0.3	0.0	0.3	0.3	0.7	0.7
155°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°
0°	51.7
2.5°	52.5
5°	55.1
7.5°	59.2
10°	65.2
12.5°	73.8
15°	84.1
17.5°	97.9
20°	115.3
22.5°	135.1
25°	156.8
27.5°	180.5
30°	205.2
32.5°	231.9
35°	258.8
37.5°	285.5
40°	314.2
42.5°	343.3
45°	375.9
47.5°	413.3
50°	456.2
52.5°	500.4
55°	547.4
57.5°	601.9
60°	659.3
62.5°	715.4
65°	763.6
67.5°	801.3
69°	809.7
70°	806.9
72.5°	765.7
75°	678.2
77.5°	555.2
80°	408.5
82.5°	279.8
85°	185.9
87.5°	118.9
90°	78.1
92.5°	55.8
95°	42.2
97.5°	33.4
100°	26.7
102.5°	21.6
105°	16.9
107.5°	13.1



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CANDELA DISTRIBUTION (continued):

	90°
110°	10.5
112.5°	8.4
115°	7.0
117.5°	6.1
120°	5.1
122.5°	4.8
125°	4.4
127.5°	3.8
130°	3.8
132.5°	3.4
135°	3.1
137.5°	2.8
140°	2.3
142.5°	2.1
145°	1.6
147.5°	1.0
150°	1.0
152.5°	0.7
155°	0.3
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)