

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: P240370

Luminaire Tested: **UTLD-AF24-20-D-U-5WQ-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240370
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-AF24-20-D-U-5WQ-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 260mA 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: 2349.7 lumens
Efficiency: N/A
Efficacy: 111.9 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): 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

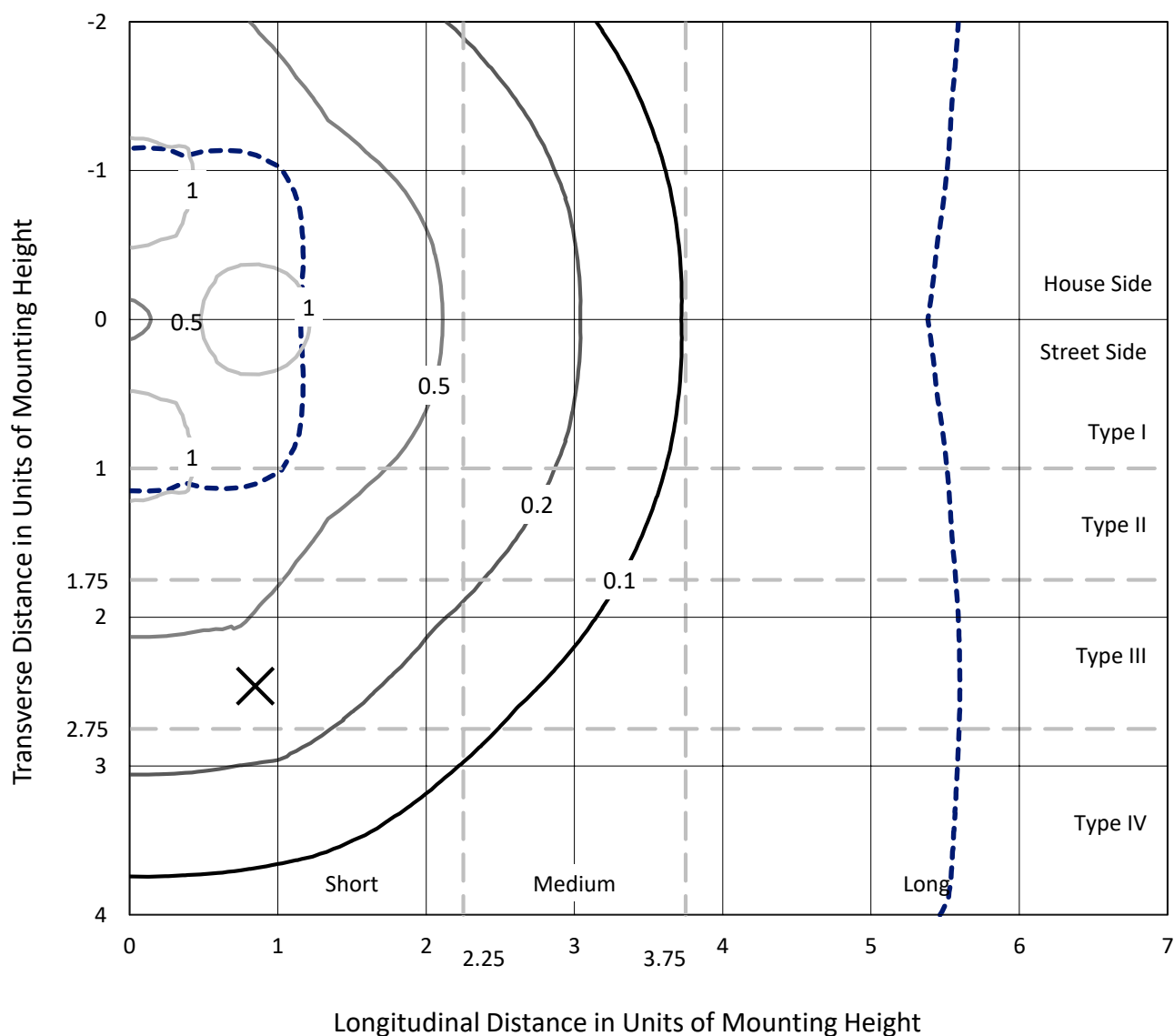


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

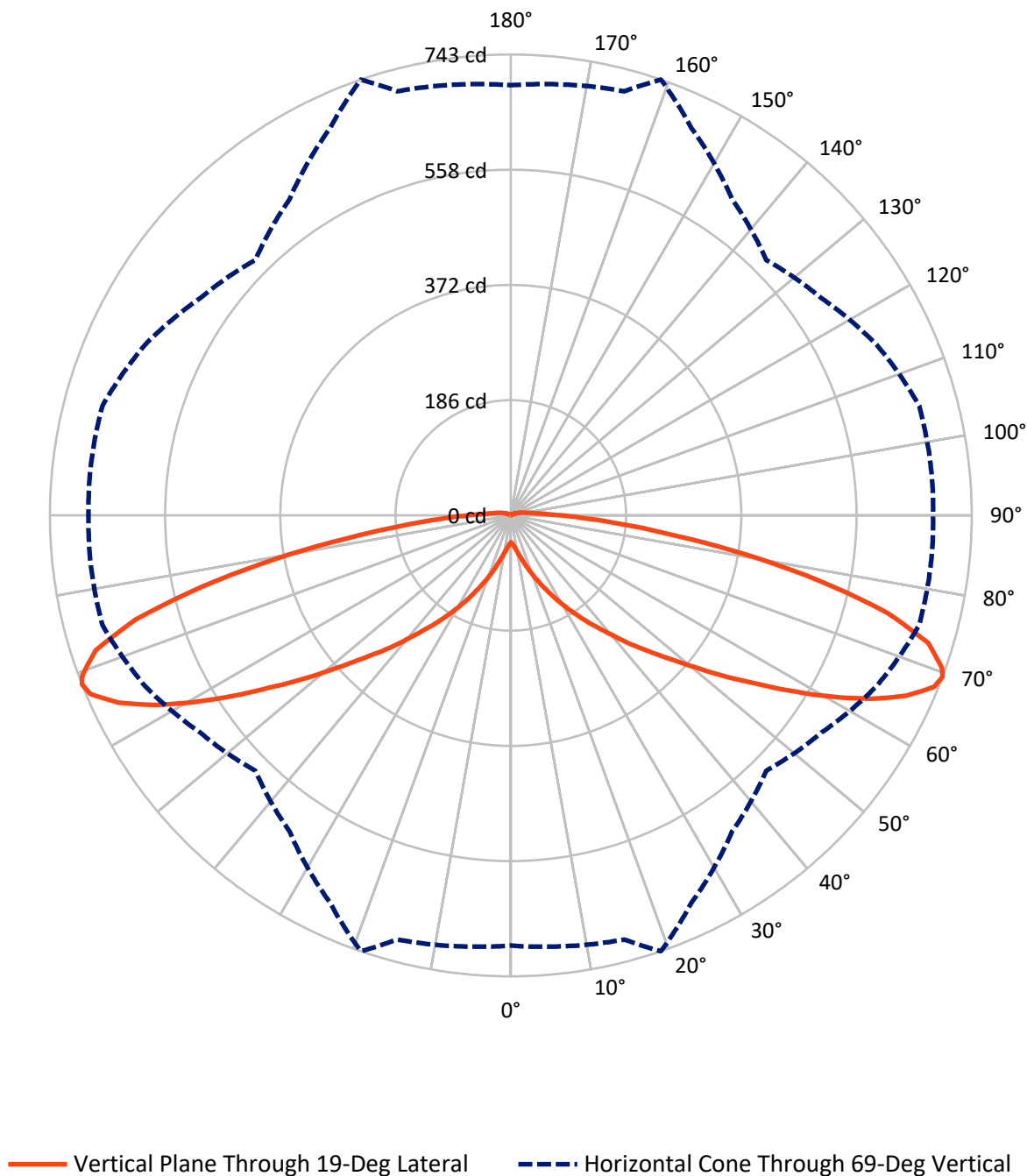


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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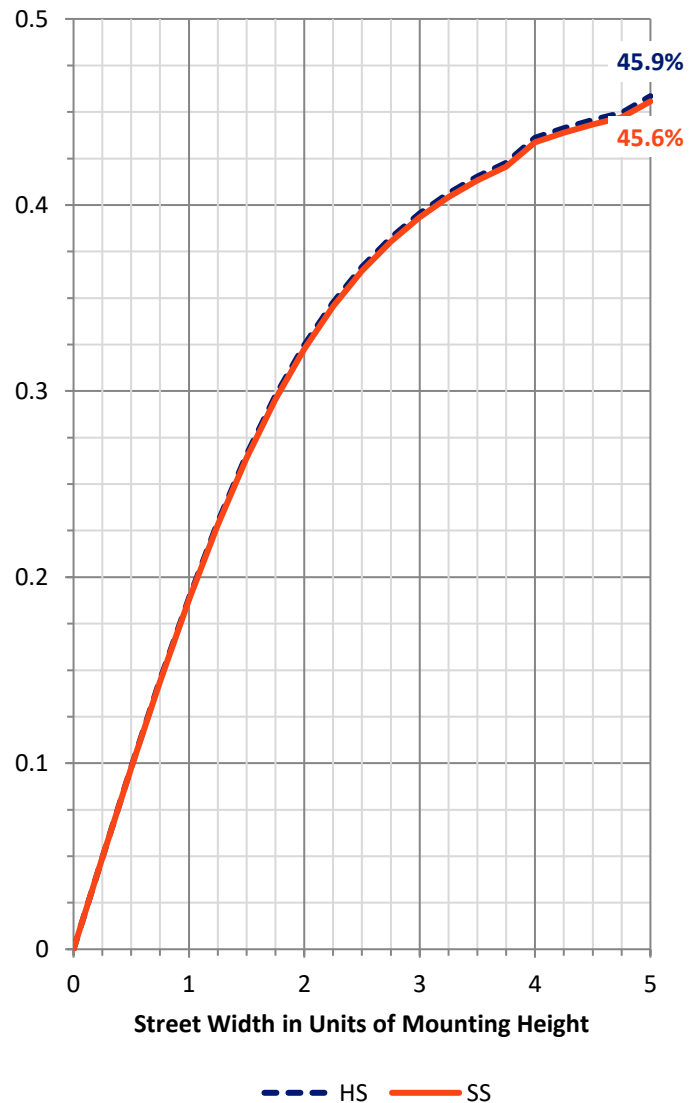
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.2	47.7	1174.9
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	1127.2	47.7	1174.9
	% Fixture	48.0	2.0	50.0
Total	Lumens	2254.4	95.3	2349.7
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.2
10°-20°	21.0	0.9
20°-30°	57.2	2.4
30°-40°	121.0	5.1
40°-50°	220.9	9.4
50°-60°	385.9	16.4
60°-70°	604.9	25.7
70°-80°	596.8	25.4
80°-90°	242.0	10.3
90°-100°	58.3	2.5
100°-110°	21.3	0.9
110°-120°	8.9	0.4
120°-130°	4.1	0.2
130°-140°	1.9	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2254.4	95.9
0°-180°	2349.7	100.0

Coefficient of Utilization



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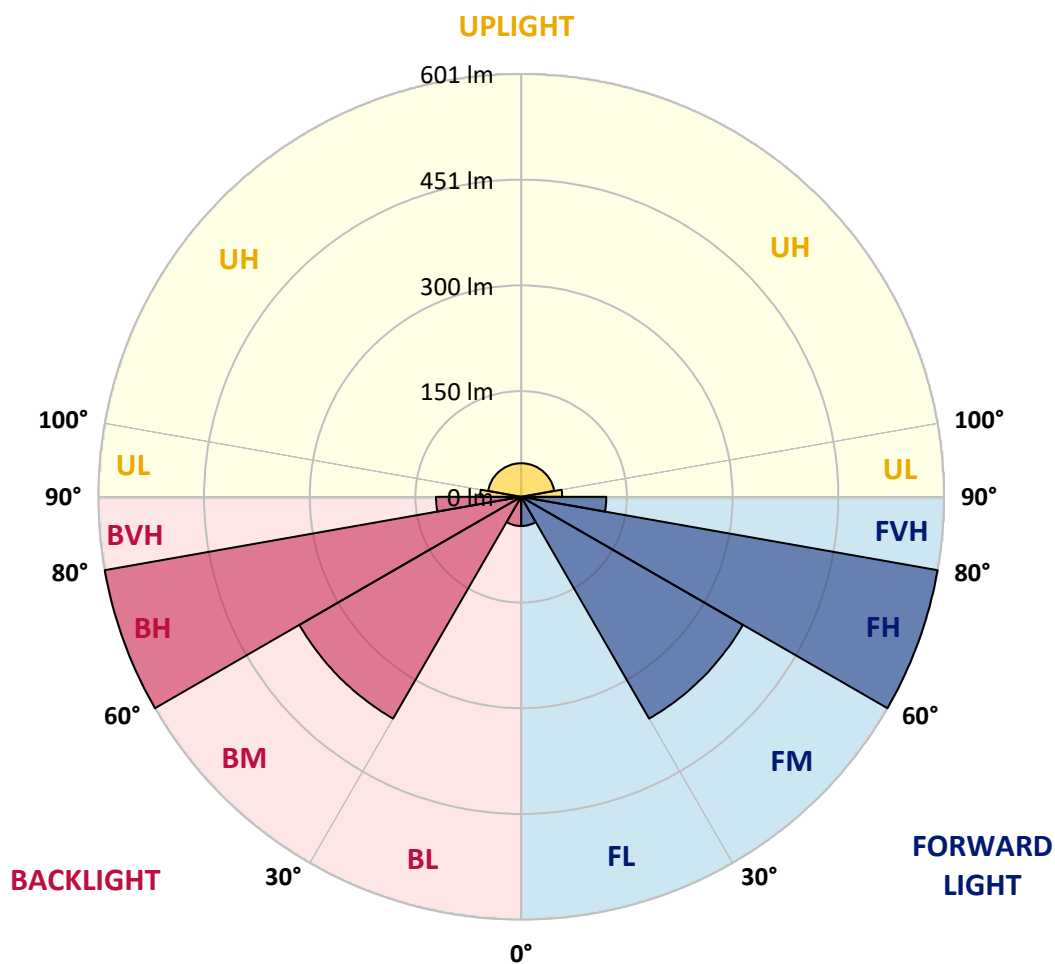
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	41.5	1.8			
FM	(30°-60°)	363.9	15.5			
FH	(60°-80°)	600.8	25.6			G0/660
FVH	(80°-90°)	121.0	5.1			G2/225
BL	(0°-30°)	41.5	1.8	B0/110		
BM	(30°-60°)	363.9	15.5	B1/1000		
BH	(60°-80°)	600.8	25.6	B2/1000		G0/660
BVH	(80°-90°)	121.0	5.1			G2/225
UL	(90°-100°)	58.3	2.5		U3/500	
UH	(100°-180°)	47.7	2.0		U2/50	

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°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	44.4	44.4	44.4	45.5	44.4	44.4	44.4	44.4	44.4	44.4	44.1
5°	46.6	46.6	46.6	49.2	46.6	46.3	46.3	46.6	46.3	46.3	46.3
7.5°	50.8	50.6	50.6	54.0	50.6	50.3	50.0	50.0	50.0	49.7	49.7
10°	56.6	56.3	56.0	60.6	55.8	55.4	55.1	54.8	54.8	54.8	55.1
12.5°	63.9	63.9	63.4	68.5	62.5	61.7	61.1	60.9	61.1	61.4	61.7
15°	73.3	73.7	72.7	78.2	70.8	69.4	68.5	68.5	69.0	70.0	70.8
17.5°	85.8	85.5	83.9	90.4	81.6	78.8	76.7	77.0	79.1	81.3	82.8
20°	99.5	98.6	96.7	103.2	93.2	89.0	86.7	87.3	90.6	94.4	96.4
22.5°	114.6	113.8	110.9	117.4	105.8	100.4	98.1	98.9	103.2	108.6	112.5
25°	131.0	130.7	126.7	132.8	119.1	112.5	109.5	111.4	117.4	125.6	130.5
27.5°	149.2	148.6	143.5	150.1	134.2	126.2	122.5	124.5	132.5	143.3	151.0
30°	169.1	168.6	161.4	168.6	150.1	139.8	135.6	138.7	148.4	162.9	171.4
32.5°	190.5	189.9	181.1	187.9	167.8	154.7	148.9	153.2	165.7	181.7	193.0
35°	212.9	211.4	202.4	208.9	186.5	170.0	163.2	169.7	183.6	202.4	215.2
37.5°	237.1	235.4	224.8	230.6	206.1	187.3	179.6	185.7	203.3	223.1	238.8
40°	262.1	260.6	247.9	255.2	228.5	205.8	196.7	204.1	224.3	245.3	261.6
42.5°	288.6	287.1	274.9	284.3	252.7	226.0	215.4	224.8	246.7	270.1	287.7
45°	315.8	315.3	303.6	312.7	278.9	249.6	237.6	248.5	272.3	298.2	315.3
47.5°	349.0	345.7	336.9	345.7	310.2	278.5	263.8	275.2	301.6	329.8	346.8
50°	382.1	381.5	373.8	384.6	345.3	308.4	292.3	305.4	335.4	364.5	380.6
52.5°	421.3	422.4	414.2	430.4	386.4	346.3	326.9	341.7	375.2	403.3	419.3
55°	463.4	463.9	460.5	477.8	430.4	385.4	365.0	381.2	415.6	446.6	461.7
57.5°	512.3	511.7	510.6	534.4	482.1	432.4	407.0	426.7	462.5	493.8	506.3
60°	560.6	560.6	563.4	593.3	536.7	480.7	451.4	473.8	511.7	544.6	553.7
62.5°	612.8	613.8	616.3	651.2	589.0	529.9	496.3	520.8	563.4	593.8	601.2
65°	655.5	659.5	665.2	701.3	641.0	574.5	539.3	565.1	608.9	639.0	643.5
67.5°	686.5	688.4	699.3	736.8	679.4	610.1	571.4	598.1	641.3	672.0	674.8
69°	693.7	698.2	708.1	743.4	689.4	622.3	582.5	611.2	651.0	682.0	682.0
70°	690.5	696.2	708.1	738.0	691.6	626.3	587.3	614.0	652.9	681.7	680.8
72.5°	656.1	660.1	680.6	704.1	674.3	618.3	585.0	608.0	635.4	655.2	650.1
75°	583.6	587.6	610.6	627.4	620.0	580.7	557.2	572.2	585.3	587.3	577.7
77.5°	471.6	477.6	509.4	510.6	532.8	517.4	504.8	510.2	502.1	493.0	471.9
80°	355.9	360.2	389.4	386.6	423.3	432.9	431.5	428.4	403.7	374.9	351.4
82.5°	246.7	250.1	279.5	266.4	314.4	337.7	346.0	335.1	297.7	265.3	244.2
85°	158.0	163.8	186.8	178.2	220.9	249.0	261.3	244.5	208.9	177.7	160.1
87.5°	102.3	104.6	121.4	114.3	146.7	175.6	188.7	175.1	143.5	117.4	102.6
90°	66.0	68.5	79.1	73.7	98.1	120.8	131.9	119.1	97.2	78.8	68.5
92.5°	46.0	48.1	54.0	50.8	66.0	83.3	93.2	83.3	67.4	55.8	48.3
95°	35.3	36.1	40.4	37.5	48.1	60.3	66.2	60.3	49.2	41.7	36.6
97.5°	27.8	28.4	31.5	29.3	36.1	44.9	49.5	45.2	37.8	32.7	28.7
100°	22.5	22.7	25.3	24.1	28.9	35.3	38.4	35.5	30.4	26.2	23.0
102.5°	18.2	18.2	20.8	20.2	23.8	28.4	30.7	29.3	25.1	21.3	18.2
105°	14.5	14.5	16.8	16.8	19.9	23.3	25.3	23.8	20.5	17.1	14.5
107.5°	11.4	11.7	13.4	13.4	16.5	19.3	20.8	19.6	16.8	13.4	11.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	9.1	9.4	10.8	11.0	13.6	16.2	17.4	16.2	13.6	10.5	8.8
112.5°	7.4	7.4	8.8	8.8	11.0	13.4	14.2	13.4	11.0	8.3	7.1
115°	6.2	6.2	7.1	7.1	9.1	11.0	12.0	11.0	8.8	6.9	5.9
117.5°	5.4	5.4	5.9	5.9	7.7	9.4	9.9	9.1	7.4	5.7	5.1
120°	4.8	4.8	5.1	5.1	6.2	7.7	8.3	7.7	5.9	4.8	4.5
122.5°	4.3	4.3	4.5	4.3	5.4	6.5	6.9	6.2	5.1	4.3	4.0
125°	4.0	4.0	4.0	3.7	4.5	5.4	5.7	5.1	4.3	3.7	3.7
127.5°	3.4	3.4	3.4	3.2	3.7	4.5	4.8	4.3	3.7	3.4	3.2
130°	3.2	3.2	3.2	2.9	3.4	3.7	4.0	3.7	3.2	3.2	3.2
132.5°	2.9	2.9	2.9	2.6	2.9	3.2	3.2	2.9	2.6	2.6	2.9
135°	2.6	2.6	2.6	2.3	2.3	2.3	2.6	2.3	2.3	2.3	2.6
137.5°	2.3	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3
140°	1.9	1.9	1.9	1.4	1.7	1.4	1.4	1.4	1.7	1.7	1.9
142.5°	1.7	1.7	1.4	1.4	1.4	1.1	0.8	1.1	1.1	1.4	1.7
145°	1.4	1.4	1.1	1.1	1.1	0.8	0.6	0.6	1.1	1.1	1.1
147.5°	1.1	1.1	0.8	0.8	0.8	0.6	0.3	0.6	0.8	0.8	1.1
150°	0.8	0.8	0.6	0.6	0.6	0.3	0.3	0.3	0.6	0.6	0.8
152.5°	0.6	0.6	0.6	0.3	0.3	0.3	0.0	0.3	0.3	0.6	0.6
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°	43.5
2.5°	44.1
5°	46.3
7.5°	49.7
10°	54.8
12.5°	62.0
15°	70.8
17.5°	82.4
20°	97.0
22.5°	113.8
25°	131.9
27.5°	151.8
30°	172.6
32.5°	195.0
35°	217.8
37.5°	240.2
40°	264.3
42.5°	288.8
45°	316.1
47.5°	347.7
50°	383.8
52.5°	421.0
55°	460.5
57.5°	506.3
60°	554.6
62.5°	601.8
65°	642.4
67.5°	674.0
69°	681.1
70°	678.8
72.5°	644.2
75°	570.5
77.5°	467.1
80°	343.7
82.5°	235.4
85°	156.3
87.5°	100.0
90°	65.7
92.5°	47.0
95°	35.5
97.5°	28.1
100°	22.5
102.5°	18.2
105°	14.2
107.5°	11.0



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CANDELA DISTRIBUTION (continued):

	90°
110°	8.8
112.5°	7.1
115°	5.9
117.5°	5.1
120°	4.3
122.5°	4.0
125°	3.7
127.5°	3.2
130°	3.2
132.5°	2.9
135°	2.6
137.5°	2.3
140°	1.9
142.5°	1.7
145°	1.4
147.5°	0.8
150°	0.8
152.5°	0.6
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)