

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: P240362

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240362
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 3109.5 lumens
Efficiency: N/A
Efficacy: 100.3 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

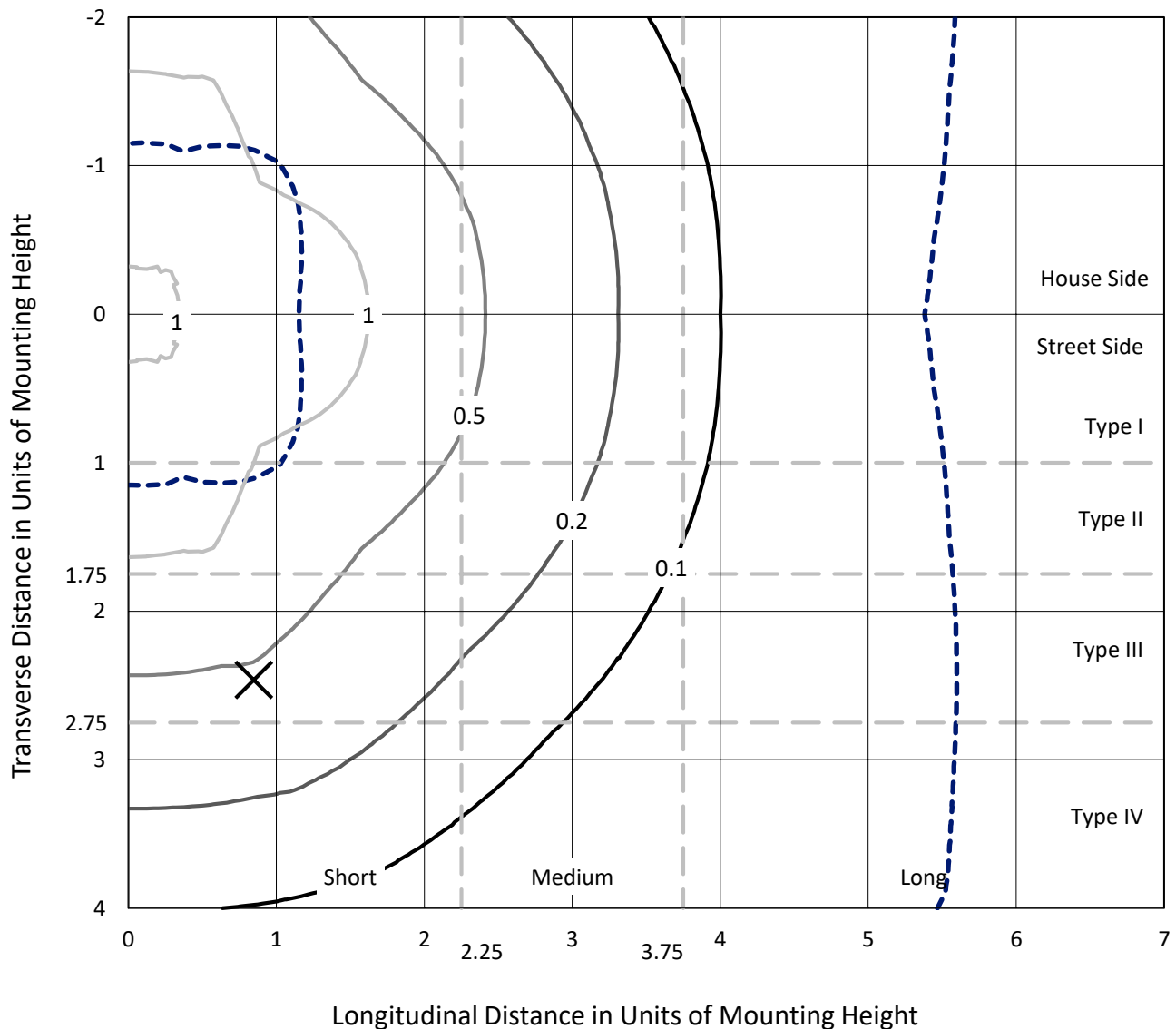


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

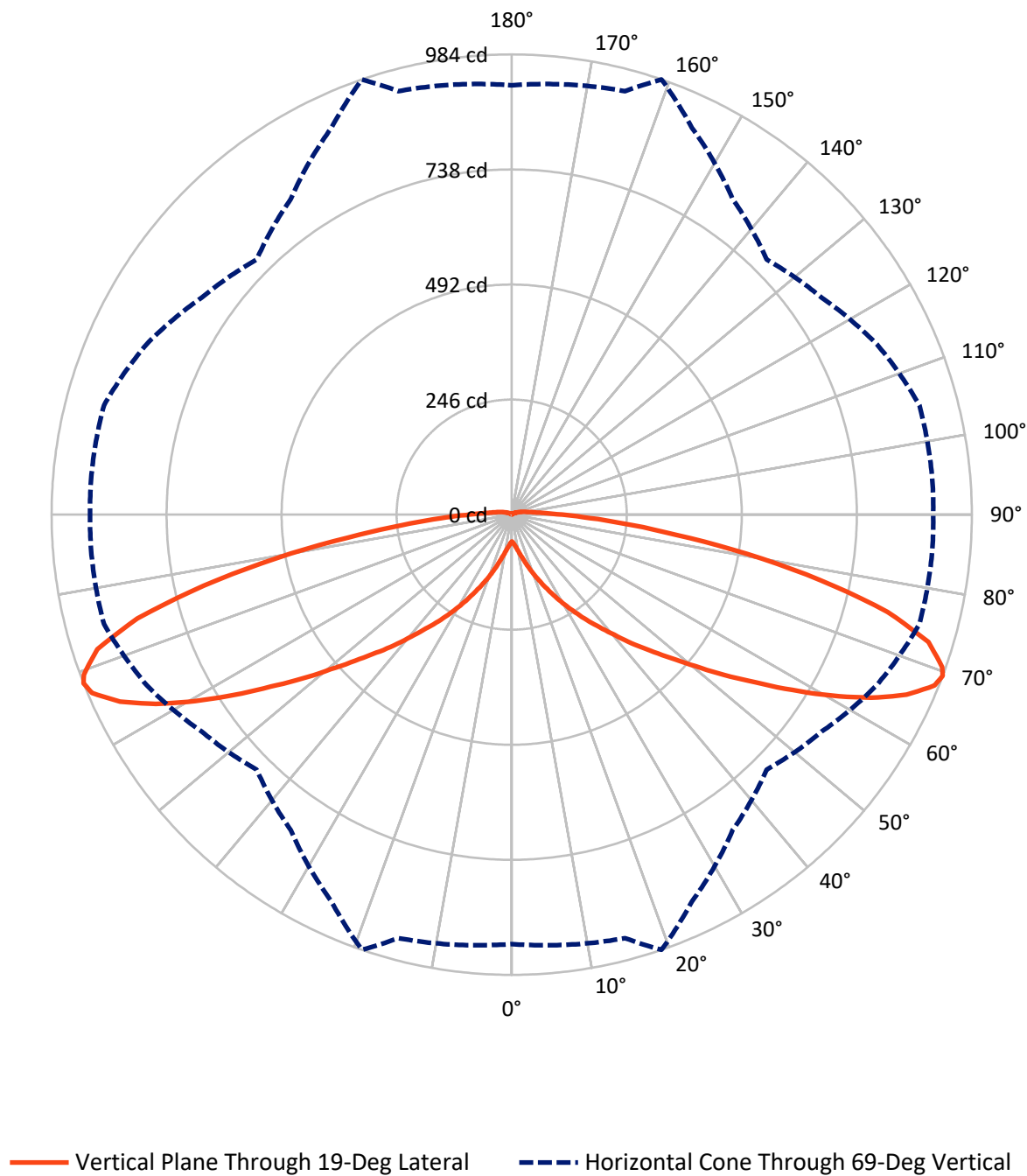


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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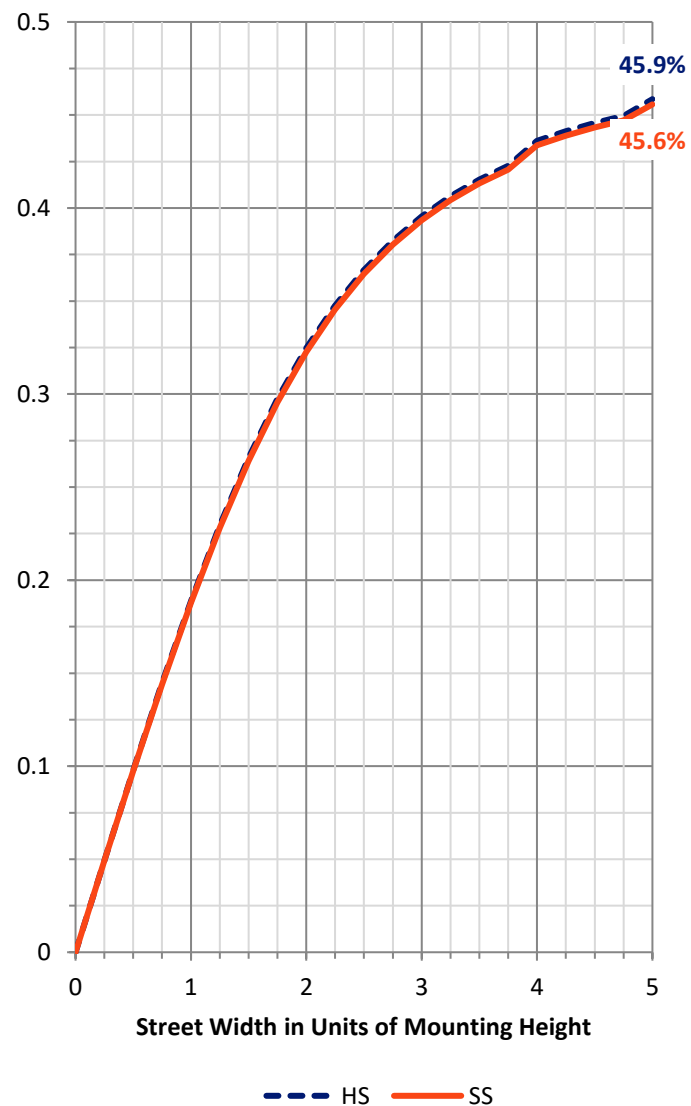
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1491.7	63.1	1554.8
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	1491.7	63.1	1554.8
	% Fixture	48.0	2.0	50.0
Total	Lumens	2983.3	126.2	3109.5
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.2
10°-20°	27.8	0.9
20°-30°	75.7	2.4
30°-40°	160.1	5.1
40°-50°	292.4	9.4
50°-60°	510.7	16.4
60°-70°	800.5	25.7
70°-80°	789.7	25.4
80°-90°	320.2	10.3
90°-100°	77.2	2.5
100°-110°	28.2	0.9
110°-120°	11.8	0.4
120°-130°	5.4	0.2
130°-140°	2.6	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2983.3	95.9
0°-180°	3109.5	100.0

Coefficient of Utilization



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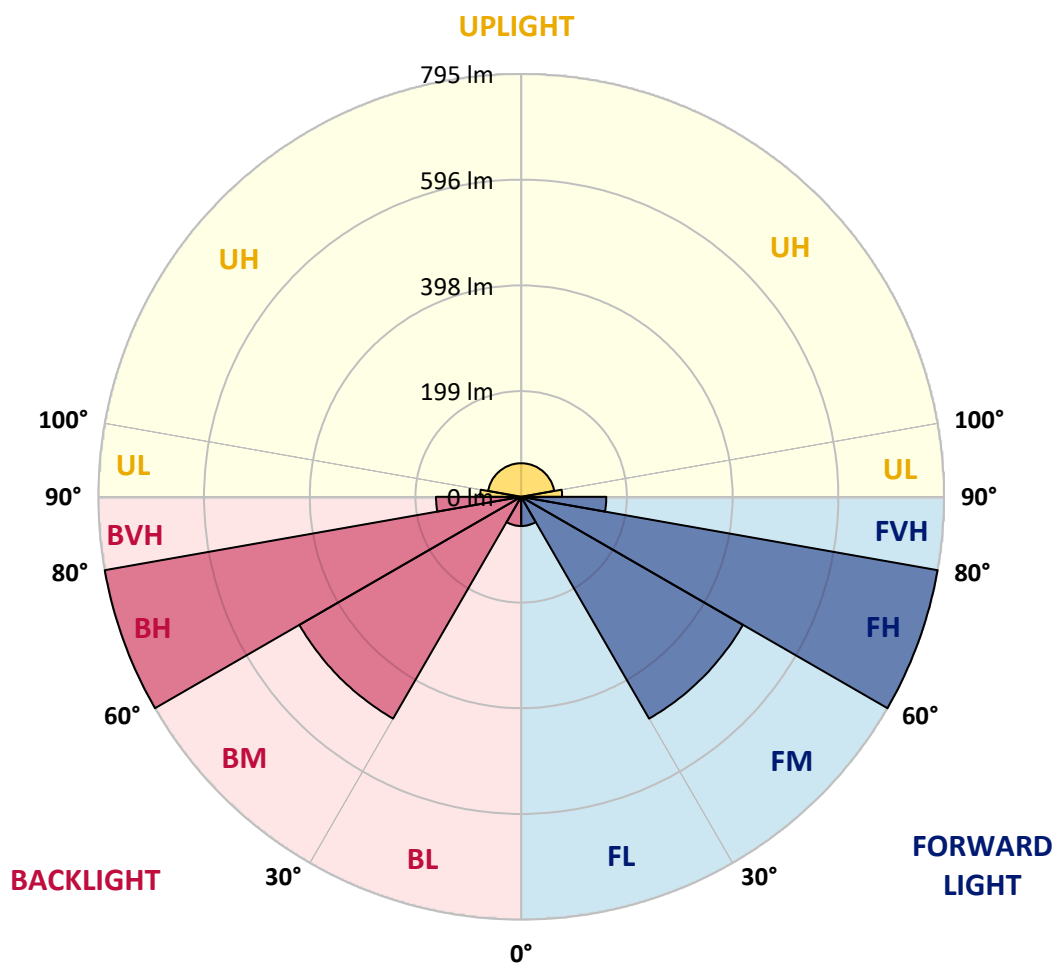
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	54.9	1.8			
FM	(30°-60°)	481.6	15.5			
FH	(60°-80°)	795.1	25.6			G1/1800
FVH	(80°-90°)	160.1	5.1			G2/225
BL	(0°-30°)	54.9	1.8	B0/110		
BM	(30°-60°)	481.6	15.5	B1/1000		
BH	(60°-80°)	795.1	25.6	B2/1000		G1/1800
BVH	(80°-90°)	160.1	5.1			G2/225
UL	(90°-100°)	77.2	2.5		U3/500	
UH	(100°-180°)	63.1	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°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
2.5°	58.7	58.7	58.7	60.2	58.7	58.7	58.7	58.7	58.7	58.7	58.4
5°	61.7	61.7	61.7	65.1	61.7	61.3	61.3	61.7	61.3	61.3	61.3
7.5°	67.3	66.9	66.9	71.4	66.9	66.5	66.2	66.2	66.2	65.9	65.9
10°	74.9	74.6	74.1	80.1	73.8	73.3	72.9	72.6	72.6	72.6	72.9
12.5°	84.6	84.6	83.9	90.6	82.7	81.6	80.9	80.6	80.9	81.3	81.6
15°	97.0	97.5	96.2	103.5	93.6	91.8	90.6	90.6	91.4	92.6	93.6
17.5°	113.6	113.2	111.0	119.6	107.9	104.3	101.6	101.9	104.6	107.6	109.5
20°	131.6	130.6	128.0	136.6	123.4	117.8	114.7	115.5	119.9	124.9	127.5
22.5°	151.7	150.4	146.7	155.3	140.0	132.8	129.8	130.9	136.6	143.6	148.9
25°	173.4	173.0	167.8	175.7	157.7	148.9	144.9	147.5	155.3	166.3	172.6
27.5°	197.5	196.7	190.0	198.7	177.5	167.0	162.1	164.8	175.3	189.6	199.7
30°	223.9	223.1	213.7	223.1	198.7	185.0	179.4	183.5	196.3	215.6	226.8
32.5°	252.1	251.3	239.6	248.7	221.9	204.7	197.1	202.7	219.3	240.4	255.4
35°	281.8	279.9	267.8	276.5	246.8	225.0	215.9	224.6	243.0	267.8	284.7
37.5°	313.8	311.5	297.5	305.1	272.7	247.9	237.7	245.7	269.0	295.3	316.0
40°	346.9	344.9	328.0	337.8	302.4	272.4	260.4	270.1	296.8	324.6	346.2
42.5°	381.9	380.0	363.8	376.2	334.5	299.1	285.1	297.5	326.5	357.4	380.7
45°	417.9	417.2	401.7	413.8	369.1	330.3	314.4	328.8	360.3	394.7	417.2
47.5°	461.9	457.5	445.8	457.5	410.4	368.6	349.1	364.2	399.2	436.4	459.0
50°	505.6	504.9	494.7	508.9	457.0	408.2	386.7	404.0	443.9	482.3	503.6
52.5°	557.6	559.0	548.2	569.6	511.3	458.3	432.6	452.3	496.6	533.8	554.9
55°	613.2	613.9	609.4	632.4	569.6	510.1	483.0	504.4	550.0	591.0	611.0
57.5°	677.9	677.2	675.7	707.2	638.0	572.2	538.6	564.7	612.1	653.5	670.0
60°	741.9	741.9	745.5	785.1	710.3	636.1	597.4	627.1	677.2	720.8	732.8
62.5°	811.0	812.3	815.6	861.8	779.4	701.2	656.8	689.2	745.5	785.9	795.6
65°	867.5	872.8	880.3	928.0	848.3	760.2	713.7	747.9	805.8	845.6	851.6
67.5°	908.5	911.1	925.4	975.0	899.1	807.3	756.2	791.5	848.7	889.3	893.0
69°	917.9	923.9	937.1	983.8	912.2	823.5	770.9	808.8	861.5	902.5	902.5
70°	913.7	921.3	937.1	976.6	915.3	828.7	777.2	812.6	864.1	902.1	901.0
72.5°	868.3	873.5	900.7	931.8	892.3	818.3	774.2	804.7	840.7	867.1	860.3
75°	772.4	777.6	808.1	830.3	820.4	768.5	737.3	757.2	774.5	777.2	764.4
77.5°	624.1	631.9	674.1	675.7	704.9	684.6	668.1	675.2	664.3	652.3	624.5
80°	471.0	476.6	515.3	511.7	560.2	572.9	571.1	566.9	534.2	496.1	465.0
82.5°	326.5	331.0	369.9	352.5	416.1	446.9	457.8	443.5	393.9	350.9	323.2
85°	209.1	216.7	247.2	235.9	292.3	329.5	345.7	323.5	276.5	235.1	211.8
87.5°	135.5	138.4	160.6	151.3	194.2	232.5	249.7	231.7	190.0	155.3	135.8
90°	87.3	90.6	104.6	97.5	129.8	159.8	174.6	157.7	128.7	104.3	90.6
92.5°	60.9	63.6	71.4	67.3	87.3	110.3	123.4	110.3	89.1	73.8	63.9
95°	46.7	47.7	53.4	49.6	63.6	79.8	87.6	79.8	65.1	55.2	48.5
97.5°	36.8	37.5	41.7	38.8	47.7	59.4	65.4	59.8	50.0	43.2	38.0
100°	29.7	30.0	33.5	32.0	38.4	46.7	50.8	47.0	40.2	34.6	30.5
102.5°	24.0	24.0	27.5	26.7	31.5	37.5	40.7	38.8	33.1	28.2	24.0
105°	19.2	19.2	22.2	22.2	26.3	30.8	33.5	31.5	27.1	22.6	19.2
107.5°	15.1	15.4	17.7	17.7	21.9	25.5	27.5	26.0	22.2	17.7	15.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	12.0	12.4	14.3	14.6	18.0	21.5	23.0	21.5	18.0	13.8	11.7
112.5°	9.9	9.9	11.7	11.7	14.6	17.7	18.8	17.7	14.6	10.9	9.4
115°	8.3	8.3	9.4	9.4	12.0	14.6	15.9	14.6	11.7	9.1	7.8
117.5°	7.1	7.1	7.8	7.8	10.2	12.4	13.2	12.0	9.9	7.5	6.8
120°	6.4	6.4	6.8	6.8	8.3	10.2	10.9	10.2	7.8	6.4	6.0
122.5°	5.7	5.7	6.0	5.7	7.1	8.6	9.1	8.3	6.8	5.7	5.3
125°	5.3	5.3	5.3	4.9	6.0	7.1	7.5	6.8	5.7	4.9	4.9
127.5°	4.5	4.5	4.5	4.2	4.9	6.0	6.4	5.7	4.9	4.5	4.2
130°	4.2	4.2	4.2	3.8	4.5	4.9	5.3	4.9	4.2	4.2	4.2
132.5°	3.8	3.8	3.8	3.4	3.8	4.2	4.2	3.8	3.4	3.4	3.8
135°	3.4	3.4	3.4	3.1	3.1	3.1	3.4	3.1	3.1	3.1	3.4
137.5°	3.1	3.1	3.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.1
140°	2.6	2.6	2.6	1.8	2.3	1.8	1.8	1.8	2.3	2.3	2.6
142.5°	2.3	2.3	1.8	1.8	1.8	1.5	1.1	1.5	1.5	1.8	2.3
145°	1.8	1.8	1.5	1.5	1.5	1.1	0.8	0.8	1.5	1.5	1.5
147.5°	1.5	1.5	1.1	1.1	1.1	0.8	0.3	0.8	1.1	1.1	1.5
150°	1.1	1.1	0.8	0.8	0.8	0.3	0.3	0.3	0.8	0.8	1.1
152.5°	0.8	0.8	0.8	0.3	0.3	0.3	0.0	0.3	0.3	0.8	0.8
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°	57.6
2.5°	58.4
5°	61.3
7.5°	65.9
10°	72.6
12.5°	82.1
15°	93.6
17.5°	109.0
20°	128.3
22.5°	150.4
25°	174.6
27.5°	200.9
30°	228.4
32.5°	258.1
35°	288.1
37.5°	317.8
40°	349.8
42.5°	382.2
45°	418.4
47.5°	460.1
50°	507.8
52.5°	557.1
55°	609.4
57.5°	670.0
60°	733.9
62.5°	796.4
65°	850.1
67.5°	892.0
69°	901.4
70°	898.3
72.5°	852.4
75°	755.0
77.5°	618.1
80°	454.8
82.5°	311.5
85°	206.9
87.5°	132.4
90°	86.9
92.5°	62.1
95°	47.0
97.5°	37.2
100°	29.7
102.5°	24.0
105°	18.8
107.5°	14.6



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CANDELA DISTRIBUTION (continued):

	90°
110°	11.7
112.5°	9.4
115°	7.8
117.5°	6.8
120°	5.7
122.5°	5.3
125°	4.9
127.5°	4.2
130°	4.2
132.5°	3.8
135°	3.4
137.5°	3.1
140°	2.6
142.5°	2.3
145°	1.8
147.5°	1.1
150°	1.1
152.5°	0.8
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)