

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: P266259

Luminaire Tested: **UTLD-AF24-20-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-24)
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-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1860.9 lumens
Efficiency: N/A
Efficacy: 88.6 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: B1 - 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



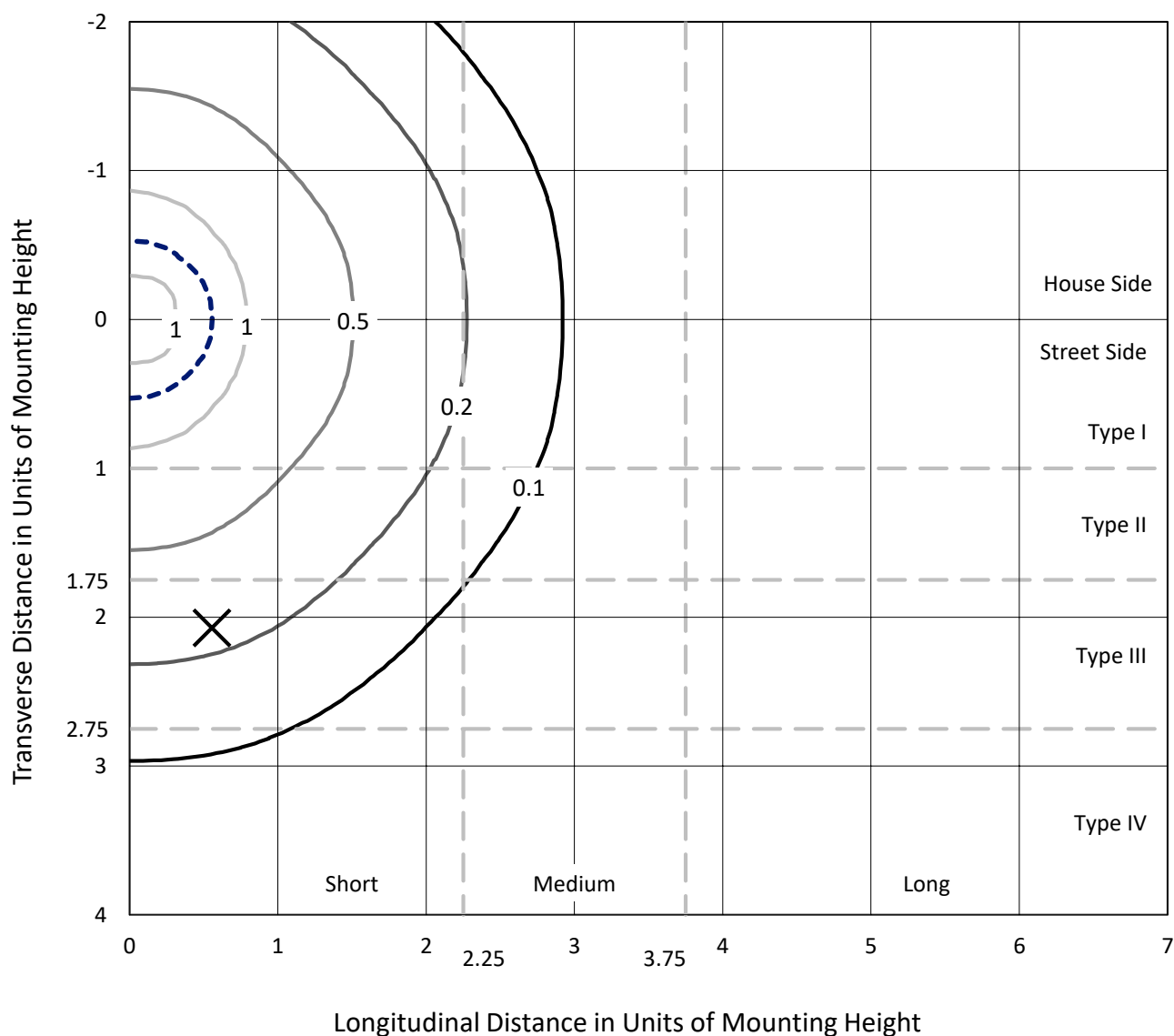
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

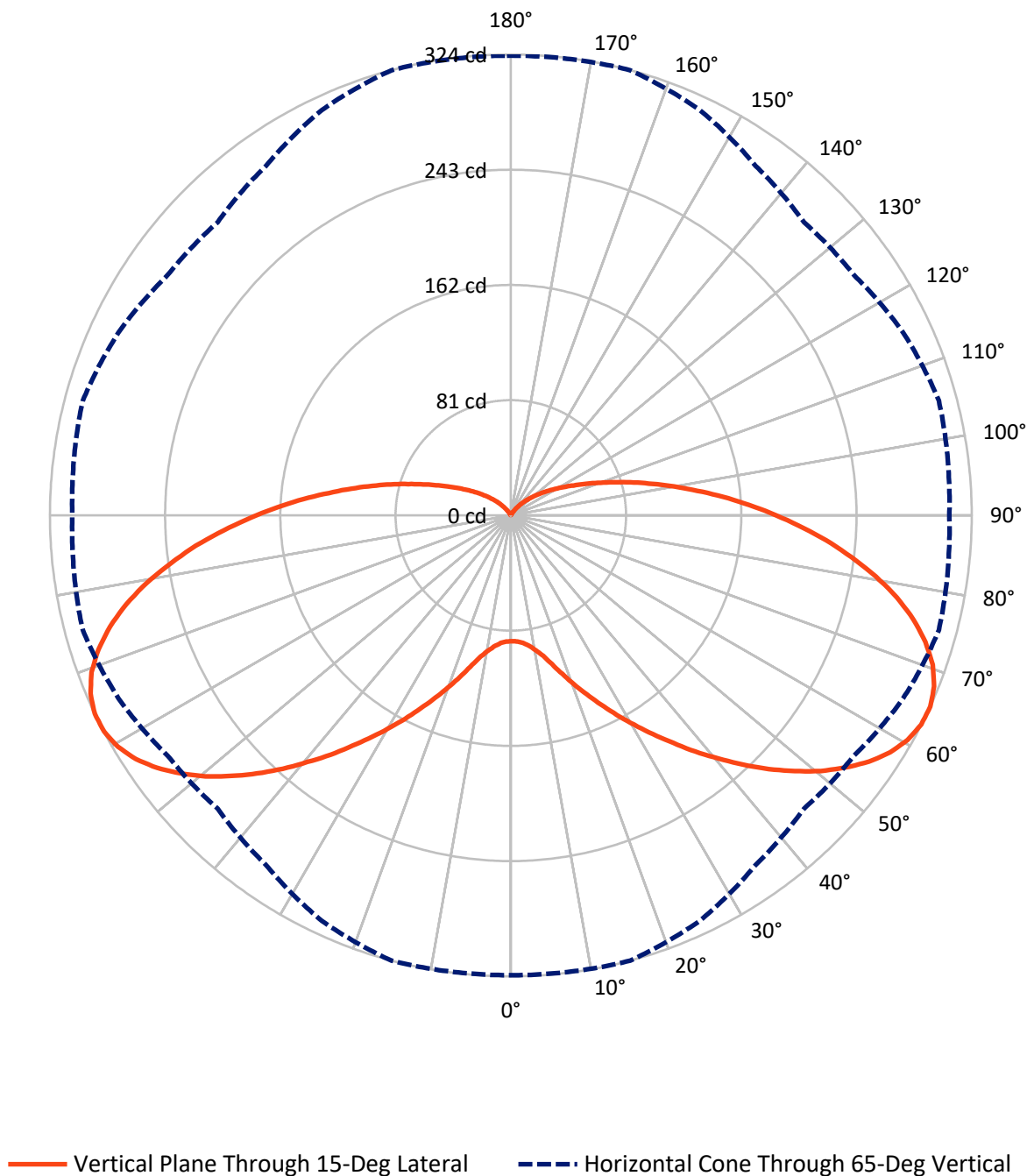


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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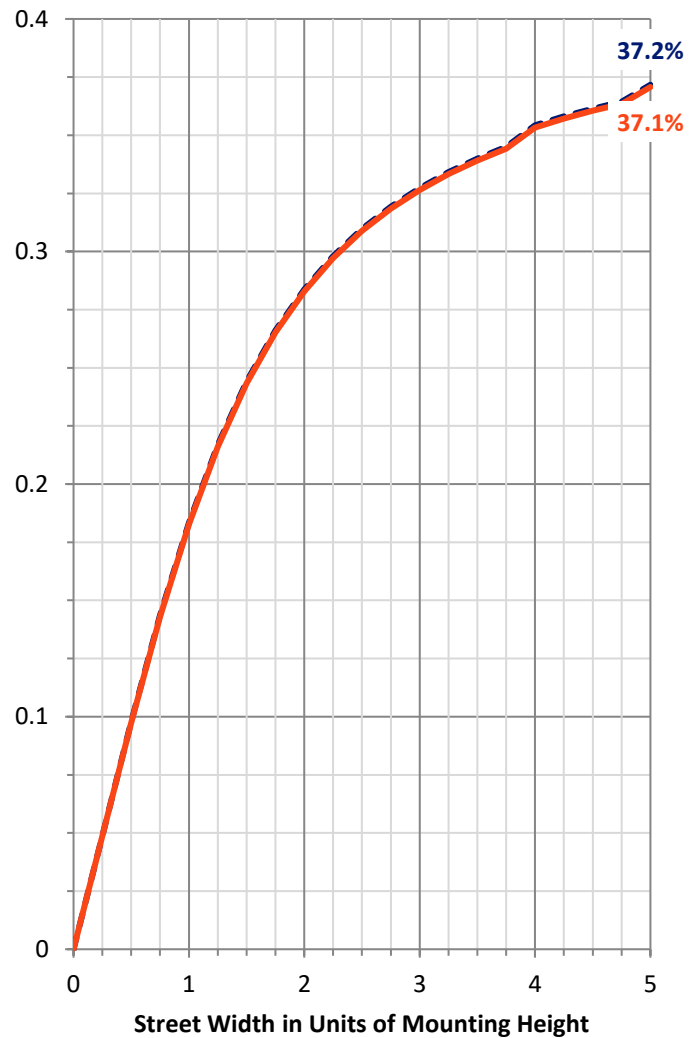
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.1	173.3	930.4
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	757.1	173.3	930.4
	% Fixture	40.7	9.3	50.0
Total	Lumens	1514.3	346.6	1860.9
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.5
10°-20°	31.1	1.7
20°-30°	68.1	3.7
30°-40°	122.6	6.6
40°-50°	191.8	10.3
50°-60°	261.3	14.0
60°-70°	303.2	16.3
70°-80°	292.9	15.7
80°-90°	234.4	12.6
90°-100°	159.7	8.6
100°-110°	96.4	5.2
110°-120°	52.6	2.8
120°-130°	25.5	1.4
130°-140°	9.9	0.5
140°-150°	2.3	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1514.3	81.4
0°-180°	1860.9	100.0

Coefficient of Utilization



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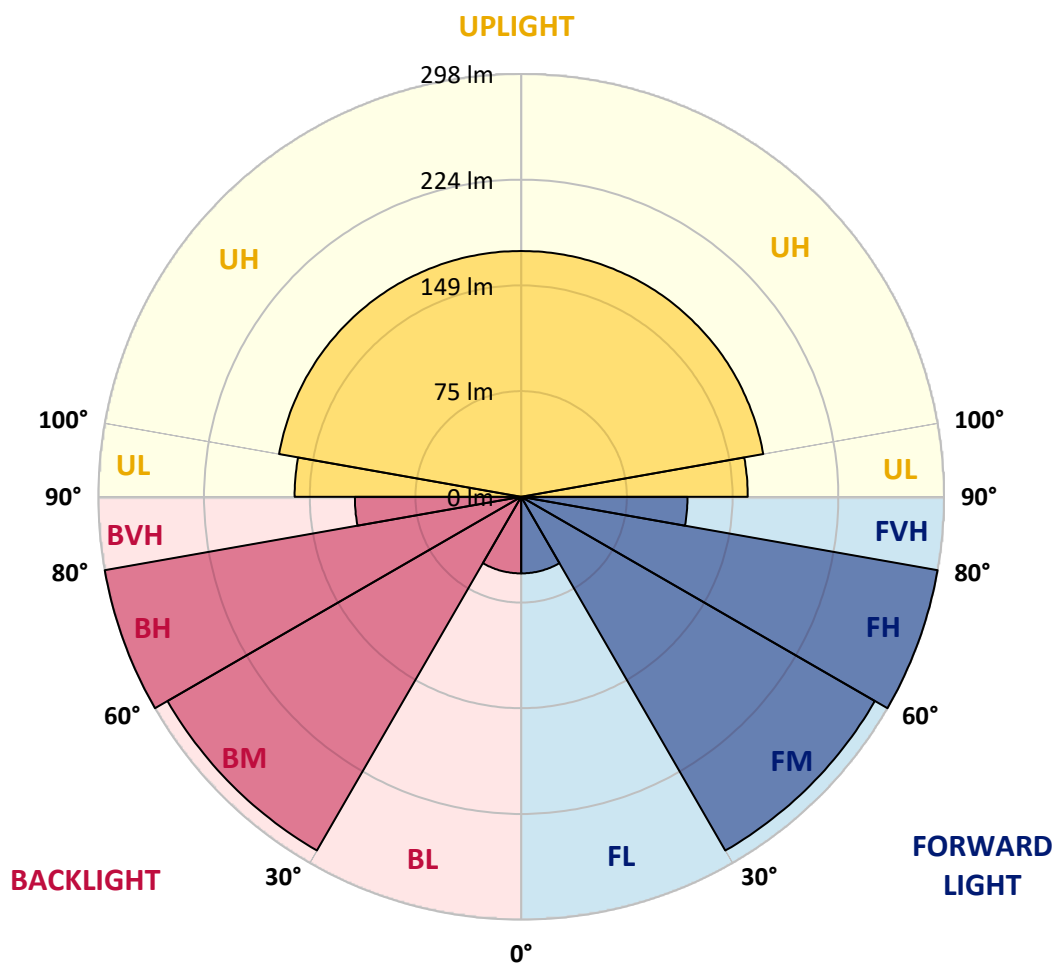
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	54.0	2.9			
FM	(30°-60°)	287.9	15.5			
FH	(60°-80°)	298.1	16.0			G0/660
FVH	(80°-90°)	117.2	6.3			G2/225
BL	(0°-30°)	54.0	2.9	B0/110		
BM	(30°-60°)	287.9	15.5	B1/1000		
BH	(60°-80°)	298.1	16.0	B1/500		G0/660
BVH	(80°-90°)	117.2	6.3			G2/225
UL	(90°-100°)	159.7	8.6		U3/500	
UH	(100°-180°)	173.3	9.3		U3/500	

BUG Rating: B1-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	88.8	88.8	88.6	88.6	88.6	88.6	88.6	88.8	88.6	88.8	88.8
5°	89.9	90.1	89.9	89.9	90.1	89.9	89.9	90.1	89.9	89.9	89.9
7.5°	92.6	92.6	92.4	92.4	92.4	92.3	92.3	92.4	92.3	92.3	92.3
10°	96.4	96.4	96.2	96.2	95.9	95.7	95.7	95.7	95.9	95.9	95.9
12.5°	101.2	101.6	101.1	100.9	100.6	100.4	100.4	100.4	100.4	100.6	100.4
15°	108.9	108.9	108.3	107.3	106.7	106.4	106.0	106.4	107.0	107.2	107.6
17.5°	117.9	117.5	117.0	116.1	114.7	113.2	113.9	114.7	115.3	115.6	115.6
20°	127.2	127.2	126.5	125.1	124.0	122.8	123.1	123.4	124.0	124.4	124.2
22.5°	136.8	137.4	136.4	135.5	134.4	134.2	133.0	133.0	133.3	133.8	133.8
25°	148.3	147.9	147.1	146.2	146.0	146.0	144.3	143.4	143.5	143.8	143.8
27.5°	160.0	159.4	158.6	157.7	157.8	157.4	156.1	154.6	153.9	154.6	154.1
30°	171.5	171.3	170.5	169.7	170.1	169.7	168.3	165.7	165.3	165.6	165.7
32.5°	184.1	184.2	183.1	182.8	183.1	181.8	180.6	178.9	177.2	178.0	178.0
35°	197.7	197.7	196.1	196.4	195.7	194.6	193.0	191.7	190.0	190.8	190.4
37.5°	211.8	211.6	210.4	210.2	208.8	206.4	205.7	205.1	203.1	203.6	203.8
40°	226.7	226.1	224.3	224.1	221.3	218.7	218.3	218.3	216.2	217.4	217.6
42.5°	241.1	240.7	239.3	238.1	234.0	231.0	230.2	231.9	230.4	231.1	231.1
45°	255.7	254.5	254.0	252.0	246.3	242.4	242.6	244.7	244.9	244.9	244.5
47.5°	269.4	269.2	268.2	264.3	258.1	253.5	254.0	257.4	258.4	258.3	258.4
50°	283.0	282.2	282.1	276.9	268.6	263.4	264.6	268.8	271.3	270.6	270.8
52.5°	295.8	294.6	294.1	288.1	278.4	272.5	273.7	279.7	282.7	282.4	282.4
55°	305.9	305.5	305.2	297.7	286.5	280.2	281.8	288.5	293.2	292.3	292.0
57.5°	314.2	313.8	314.0	305.5	292.9	285.8	287.8	296.4	301.7	300.3	300.3
60°	320.3	319.8	320.1	311.1	297.7	289.8	292.3	301.2	307.5	305.9	305.7
62.5°	323.1	322.9	323.4	313.8	299.8	291.6	294.5	303.9	310.8	308.7	308.2
65°	322.8	322.9	323.6	314.0	299.6	291.1	294.1	303.9	311.1	308.7	307.9
67.5°	319.0	319.6	320.5	311.3	296.8	288.5	291.4	301.2	308.2	305.7	304.4
70°	311.9	312.6	314.2	305.5	291.6	283.4	286.0	295.6	301.9	298.9	297.5
72.5°	300.9	302.5	304.4	296.8	283.7	276.0	278.6	287.4	293.2	289.3	287.6
75°	287.2	289.6	292.0	285.5	273.4	266.3	269.0	276.9	280.9	277.1	274.2
77.5°	271.7	274.2	277.1	271.7	261.0	254.9	256.6	263.2	266.6	261.9	259.6
80°	253.1	255.7	259.9	256.3	247.8	241.6	243.5	248.2	249.8	244.9	242.0
82.5°	234.6	237.1	240.9	239.6	232.3	227.5	228.3	231.9	232.5	226.7	224.1
85°	214.9	216.9	222.1	221.8	216.4	212.4	213.2	215.2	213.6	207.2	204.5
87.5°	194.9	196.1	201.9	202.8	200.1	197.3	197.1	197.1	194.8	188.5	186.3
90°	175.6	176.7	182.4	185.4	183.8	181.4	181.0	180.0	175.3	169.5	168.2
92.5°	156.9	157.4	163.8	167.9	167.4	165.7	165.1	163.2	157.8	151.1	150.1
95°	139.3	139.9	146.0	150.6	151.8	151.4	149.8	147.3	140.3	133.6	133.3
97.5°	123.2	123.1	128.8	134.7	137.0	137.0	134.9	131.4	124.7	117.9	117.7
100°	108.5	108.1	113.5	120.6	123.1	123.4	121.6	117.0	109.2	103.9	104.2
102.5°	95.3	94.9	99.4	106.2	110.0	110.9	108.9	103.1	95.9	91.1	91.3
105°	83.6	83.2	87.0	93.7	97.8	98.8	96.4	91.1	83.2	79.6	80.0
107.5°	72.7	72.4	75.2	81.7	86.3	87.8	85.5	79.6	72.1	69.6	69.8
110°	64.0	63.7	65.1	71.2	76.4	77.8	75.0	68.9	62.6	60.9	61.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	56.2	55.5	56.6	61.9	66.6	68.2	65.3	59.1	54.2	53.4	53.7
115°	49.0	49.0	48.8	53.0	57.9	59.3	56.6	50.9	46.9	46.7	46.7
117.5°	43.2	42.7	42.5	45.0	49.4	51.2	48.6	43.4	40.9	41.1	41.3
120°	37.5	37.5	36.9	38.1	42.0	43.2	41.1	37.1	35.6	35.9	36.2
122.5°	32.9	32.7	32.0	32.2	35.0	36.4	34.3	31.4	30.8	31.8	31.8
125°	28.4	28.2	27.6	27.0	28.4	29.6	28.2	26.4	26.6	27.6	27.8
127.5°	24.6	24.3	23.4	22.4	23.1	23.9	22.8	22.0	23.1	23.9	24.1
130°	21.0	20.8	19.9	18.4	18.2	18.7	18.0	18.2	19.7	20.8	20.8
132.5°	17.7	17.7	16.6	14.9	14.1	14.1	14.1	14.9	16.6	17.4	17.7
135°	14.7	14.7	13.7	11.9	10.3	10.1	10.3	11.9	13.7	14.5	14.7
137.5°	12.1	11.9	11.0	9.3	7.2	6.7	7.2	9.2	11.0	11.9	11.9
140°	9.6	9.3	8.4	6.9	5.1	4.2	5.1	6.7	8.4	9.3	9.3
142.5°	6.9	6.9	6.1	4.9	3.2	2.5	3.2	4.9	6.3	6.7	6.9
145°	4.9	4.9	4.2	3.1	1.8	1.3	1.8	3.2	4.2	4.9	4.9
147.5°	3.2	3.2	2.9	1.8	1.2	0.7	1.2	2.1	2.9	3.2	3.2
150°	1.8	1.8	1.6	1.2	0.4	0.2	0.4	1.2	1.6	1.8	1.8
152.5°	1.0	1.0	0.7	0.4	0.2	0.2	0.2	0.4	1.0	1.0	1.2
155°	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.2	0.4	0.4	0.4
157.5°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)