

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: P240091

Luminaire Tested: **UTLD-AF24-20-D-U-5WQ-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240091
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 2071.5 lumens
Efficiency: N/A
Efficacy: 98.6 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



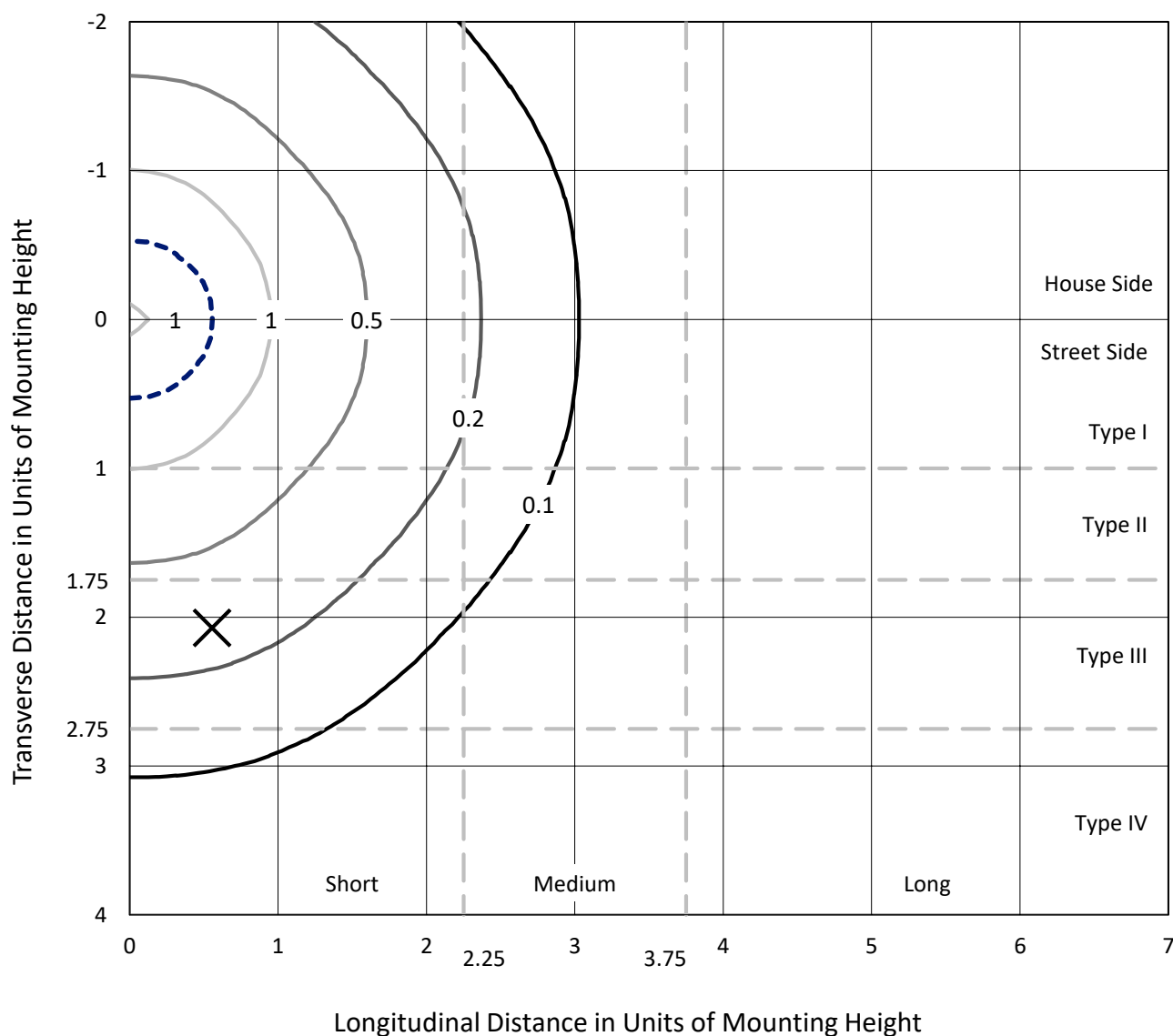
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

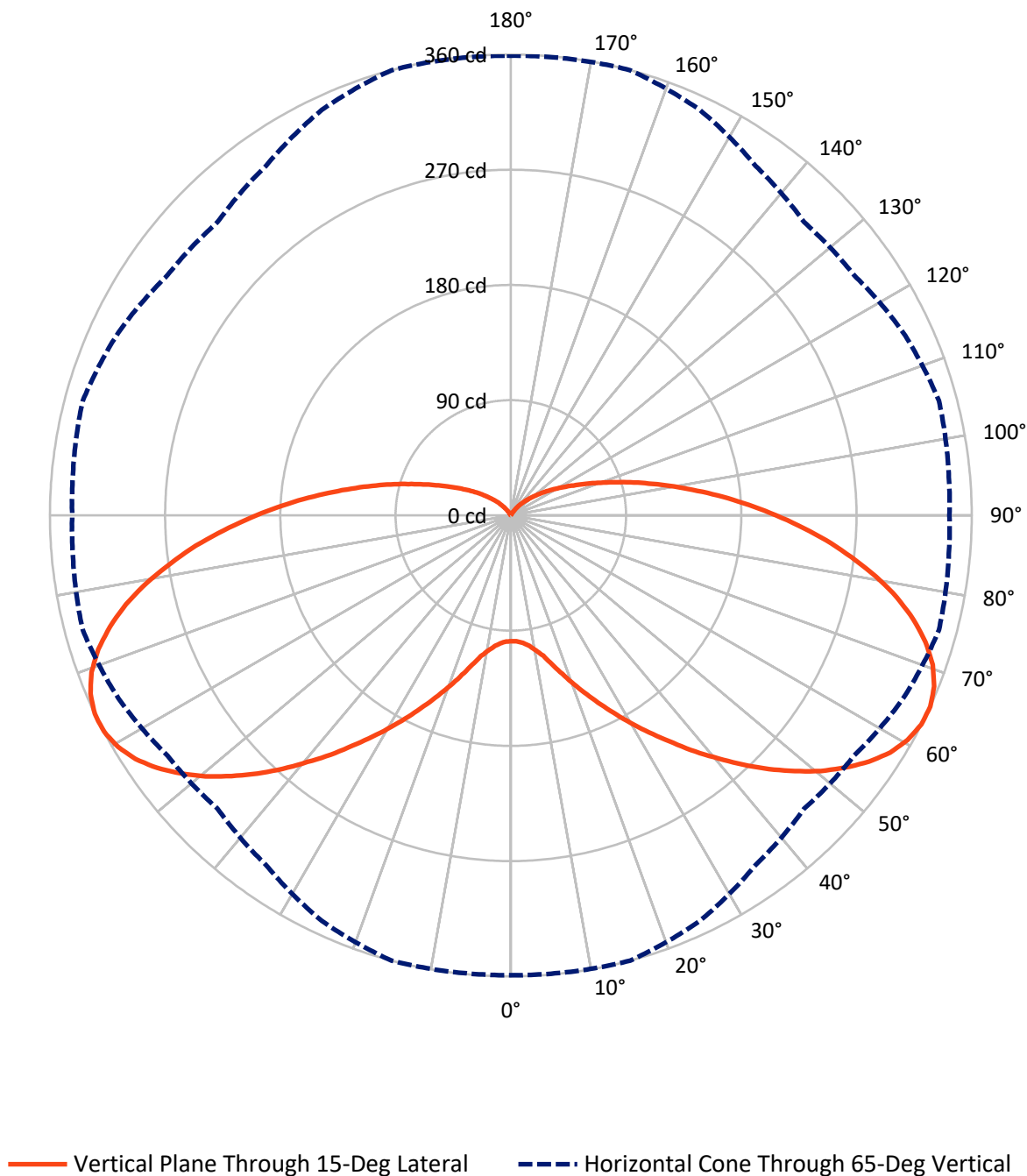


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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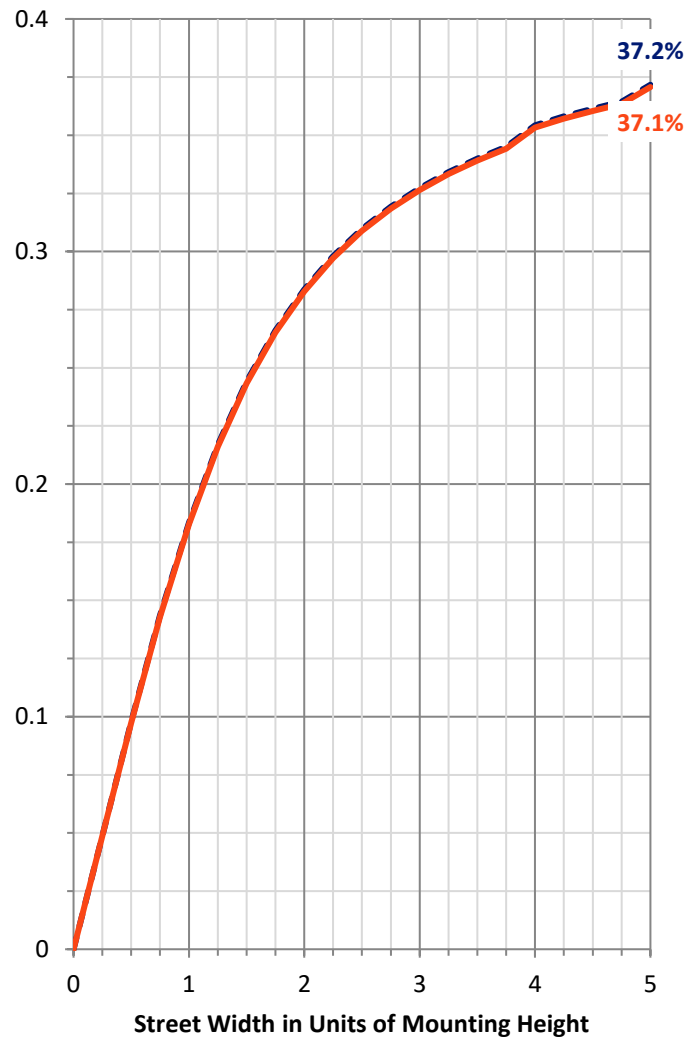
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	842.9	192.9	1035.8
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	842.9	192.9	1035.8
	% Fixture	40.7	9.3	50.0
Total	Lumens	1685.7	385.8	2071.5
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.5
10°-20°	34.7	1.7
20°-30°	75.8	3.7
30°-40°	136.5	6.6
40°-50°	213.5	10.3
50°-60°	290.9	14.0
60°-70°	337.5	16.3
70°-80°	326.1	15.7
80°-90°	261.0	12.6
90°-100°	177.8	8.6
100°-110°	107.3	5.2
110°-120°	58.5	2.8
120°-130°	28.4	1.4
130°-140°	11.0	0.5
140°-150°	2.6	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1685.7	81.4
0°-180°	2071.5	100.0

Coefficient of Utilization



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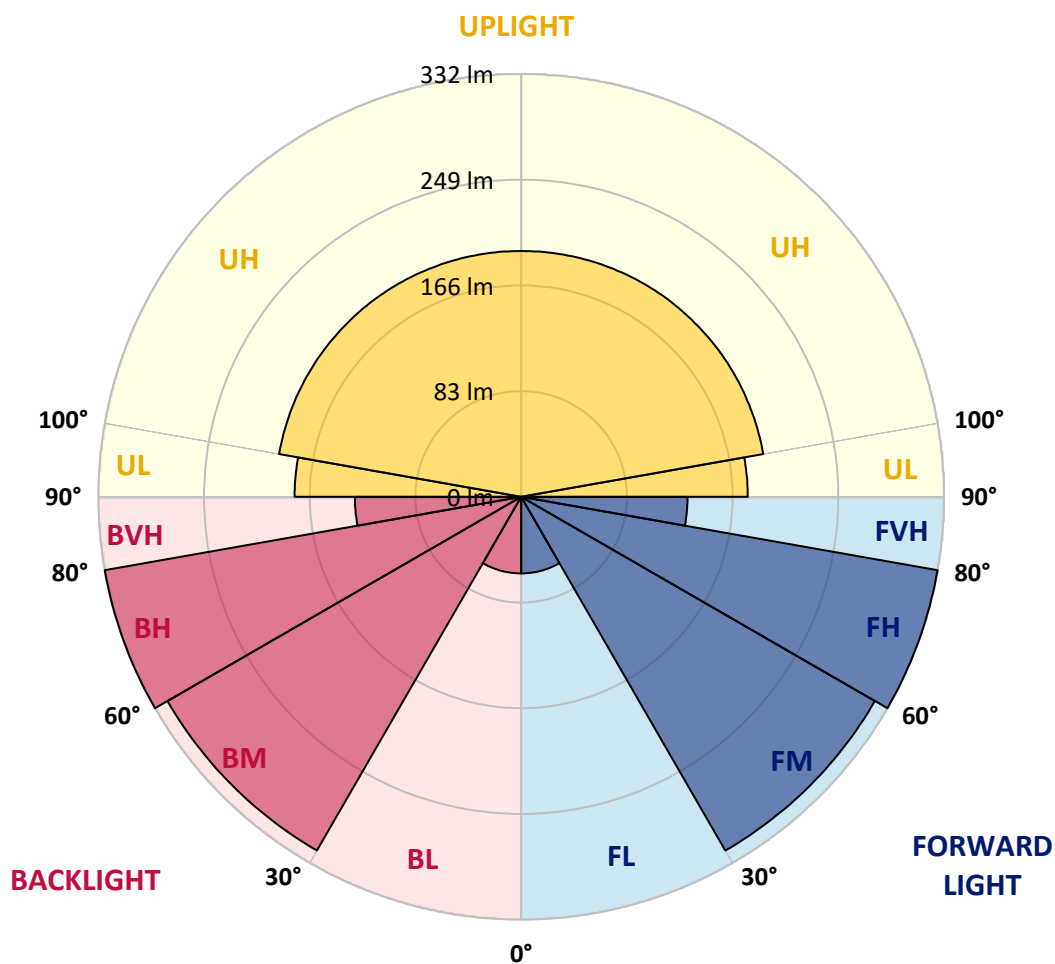
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	60.1	2.9			
FM	(30°-60°)	320.5	15.5			
FH	(60°-80°)	331.8	16.0			G0/660
FVH	(80°-90°)	130.5	6.3			G2/225
BL	(0°-30°)	60.1	2.9	B0/110		
BM	(30°-60°)	320.5	15.5	B1/1000		
BH	(60°-80°)	331.8	16.0	B1/500		G0/660
BVH	(80°-90°)	130.5	6.3			G2/225
UL	(90°-100°)	177.8	8.6		U3/500	
UH	(100°-180°)	192.9	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°	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2.5°	98.8	98.8	98.6	98.6	98.6	98.6	98.6	98.8	98.6	98.8	98.8
5°	100.1	100.3	100.1	100.1	100.3	100.1	100.1	100.3	100.1	100.1	100.1
7.5°	103.1	103.1	102.9	102.9	102.9	102.7	102.7	102.9	102.7	102.7	102.7
10°	107.3	107.3	107.1	107.1	106.8	106.5	106.5	106.5	106.8	106.8	106.8
12.5°	112.7	113.1	112.5	112.3	112.0	111.8	111.8	111.8	111.8	112.0	111.8
15°	121.2	121.2	120.6	119.5	118.8	118.5	118.0	118.5	119.1	119.3	119.8
17.5°	131.2	130.8	130.2	129.2	127.7	126.0	126.8	127.7	128.4	128.7	128.7
20°	141.6	141.6	140.8	139.3	138.0	136.7	137.0	137.4	138.0	138.5	138.3
22.5°	152.3	152.9	151.8	150.8	149.6	149.4	148.1	148.1	148.4	148.9	148.9
25°	165.1	164.6	163.8	162.7	162.5	162.5	160.6	159.6	159.8	160.1	160.1
27.5°	178.1	177.5	176.5	175.5	175.7	175.2	173.8	172.1	171.3	172.1	171.5
30°	190.9	190.7	189.8	188.9	189.4	188.9	187.4	184.5	184.0	184.3	184.5
32.5°	204.9	205.1	203.8	203.5	203.8	202.4	201.1	199.1	197.3	198.1	198.1
35°	220.1	220.1	218.3	218.6	217.9	216.6	214.9	213.4	211.5	212.4	211.9
37.5°	235.8	235.5	234.2	234.0	232.4	229.8	229.0	228.3	226.1	226.6	226.9
40°	252.4	251.7	249.7	249.5	246.4	243.5	243.0	243.0	240.7	242.0	242.2
42.5°	268.4	268.0	266.4	265.1	260.5	257.1	256.3	258.1	256.5	257.3	257.3
45°	284.6	283.3	282.8	280.5	274.2	269.8	270.1	272.4	272.6	272.6	272.2
47.5°	299.9	299.7	298.6	294.2	287.3	282.2	282.8	286.5	287.7	287.5	287.7
50°	315.0	314.2	314.0	308.2	299.0	293.2	294.5	299.2	302.0	301.2	301.5
52.5°	329.3	328.0	327.4	320.7	309.9	303.3	304.7	311.4	314.7	314.4	314.4
55°	340.5	340.1	339.7	331.4	318.9	311.9	313.7	321.2	326.4	325.4	325.1
57.5°	349.8	349.3	349.6	340.1	326.1	318.2	320.4	329.9	335.9	334.3	334.3
60°	356.6	356.0	356.3	346.3	331.4	322.6	325.4	335.3	342.3	340.5	340.3
62.5°	359.7	359.5	360.0	349.3	333.7	324.6	327.8	338.3	346.0	343.6	343.1
65°	359.3	359.5	360.2	349.6	333.5	324.1	327.4	338.3	346.3	343.6	342.8
67.5°	355.1	355.8	356.8	346.5	330.4	321.2	324.4	335.3	343.1	340.3	338.9
70°	347.2	348.0	349.8	340.1	324.6	315.5	318.4	329.1	336.1	332.7	331.2
72.5°	335.0	336.8	338.9	330.4	315.8	307.2	310.1	319.9	326.4	322.0	320.2
75°	319.7	322.4	325.1	317.8	304.4	296.5	299.4	308.2	312.7	308.5	305.2
77.5°	302.5	305.2	308.5	302.5	290.6	283.8	285.6	293.0	296.8	291.6	289.0
80°	281.8	284.6	289.3	285.3	275.8	269.0	271.1	276.3	278.1	272.6	269.4
82.5°	261.2	263.9	268.2	266.7	258.6	253.2	254.2	258.1	258.8	252.4	249.5
85°	239.2	241.5	247.2	246.9	240.9	236.5	237.3	239.6	237.8	230.7	227.7
87.5°	217.0	218.3	224.8	225.8	222.8	219.6	219.4	219.4	216.8	209.8	207.4
90°	195.5	196.7	203.0	206.4	204.6	201.9	201.5	200.4	195.2	188.7	187.2
92.5°	174.7	175.2	182.3	186.9	186.4	184.5	183.8	181.7	175.7	168.2	167.1
95°	155.1	155.7	162.5	167.6	169.0	168.5	166.8	164.0	156.2	148.7	148.4
97.5°	137.2	137.0	143.4	150.0	152.5	152.5	150.2	146.3	138.8	131.2	131.0
100°	120.8	120.3	126.3	134.2	137.0	137.4	135.4	130.2	121.6	115.7	116.0
102.5°	106.1	105.6	110.7	118.2	122.4	123.5	121.2	114.8	106.8	101.4	101.6
105°	93.1	92.6	96.9	104.3	108.9	110.0	107.3	101.4	92.6	88.6	89.1
107.5°	80.9	80.6	83.7	91.0	96.1	97.7	95.2	88.6	80.3	77.5	77.7
110°	71.2	70.9	72.5	79.3	85.0	86.6	83.5	76.7	69.7	67.8	68.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	62.6	61.8	63.0	68.9	74.1	75.9	72.7	65.8	60.3	59.5	59.8
115°	54.6	54.6	54.3	59.0	64.5	66.0	63.0	56.7	52.2	52.0	52.0
117.5°	48.1	47.5	47.3	50.1	55.0	57.0	54.1	48.3	45.5	45.8	46.0
120°	41.8	41.8	41.1	42.4	46.8	48.1	45.8	41.3	39.6	40.0	40.3
122.5°	36.6	36.4	35.6	35.8	39.0	40.5	38.2	34.9	34.3	35.4	35.4
125°	31.6	31.4	30.7	30.1	31.6	33.0	31.4	29.4	29.6	30.7	30.9
127.5°	27.4	27.0	26.0	24.9	25.7	26.6	25.4	24.5	25.7	26.6	26.8
130°	23.4	23.2	22.1	20.5	20.3	20.8	20.0	20.3	21.9	23.2	23.2
132.5°	19.7	19.7	18.5	16.6	15.7	15.7	15.7	16.6	18.5	19.4	19.7
135°	16.4	16.4	15.3	13.2	11.5	11.2	11.5	13.2	15.3	16.1	16.4
137.5°	13.5	13.2	12.2	10.4	8.0	7.5	8.0	10.2	12.2	13.2	13.2
140°	10.7	10.4	9.4	7.7	5.7	4.7	5.7	7.5	9.4	10.4	10.4
142.5°	7.7	7.7	6.8	5.5	3.6	2.8	3.6	5.5	7.0	7.5	7.7
145°	5.5	5.5	4.7	3.4	2.0	1.5	2.0	3.6	4.7	5.5	5.5
147.5°	3.6	3.6	3.2	2.0	1.3	0.8	1.3	2.3	3.2	3.6	3.6
150°	2.0	2.0	1.8	1.3	0.5	0.2	0.5	1.3	1.8	2.0	2.0
152.5°	1.1	1.1	0.8	0.5	0.2	0.2	0.2	0.5	1.1	1.1	1.3
155°	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.2	0.5	0.5	0.5
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)