

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: P240100

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240100
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 2191.2 lumens
Efficiency: N/A
Efficacy: 104.3 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: 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

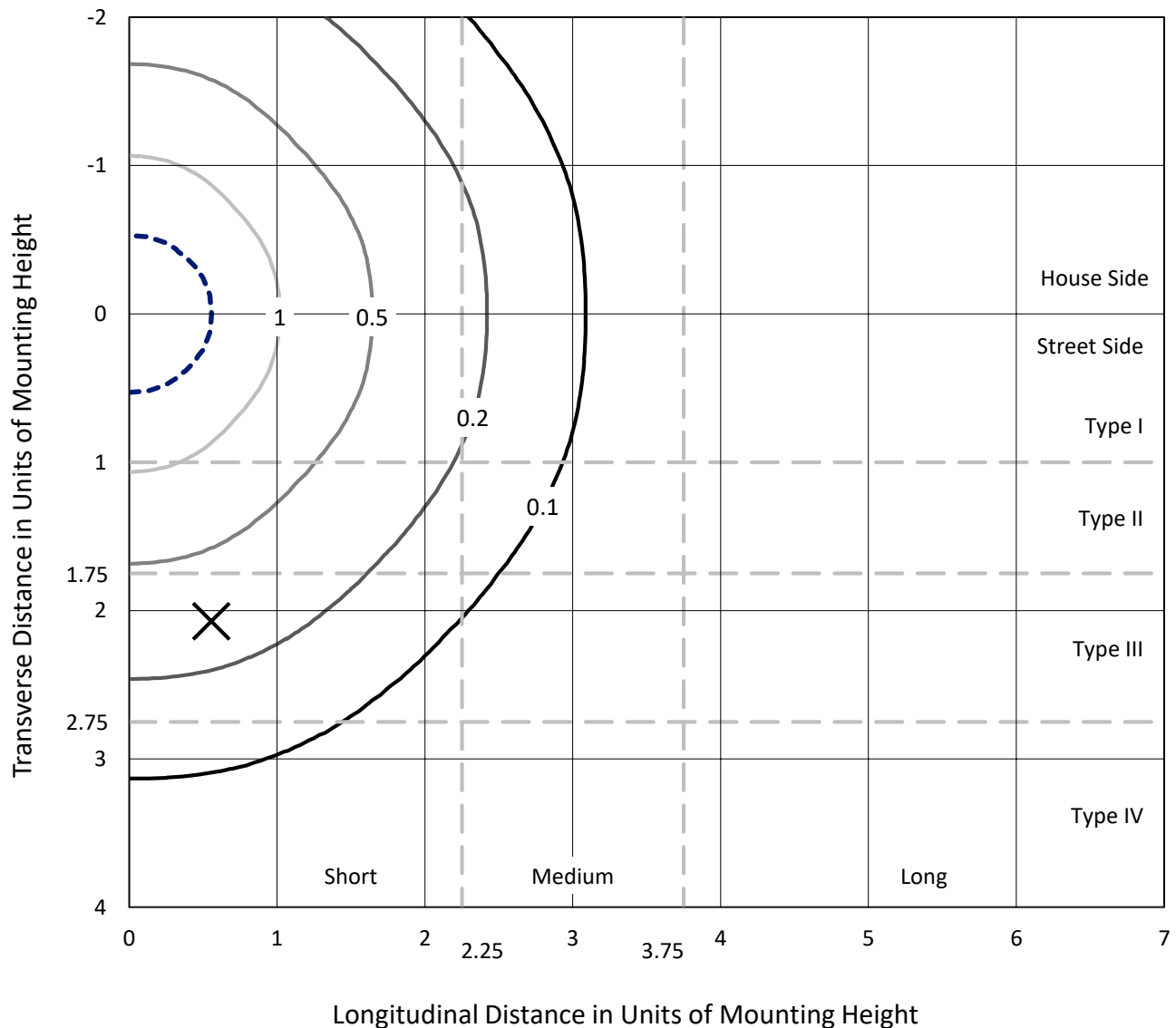


REPORT NUMBER: P240100

CATALOG NUMBER: UTLD-AF24-20-D-U-5WQ-FP

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

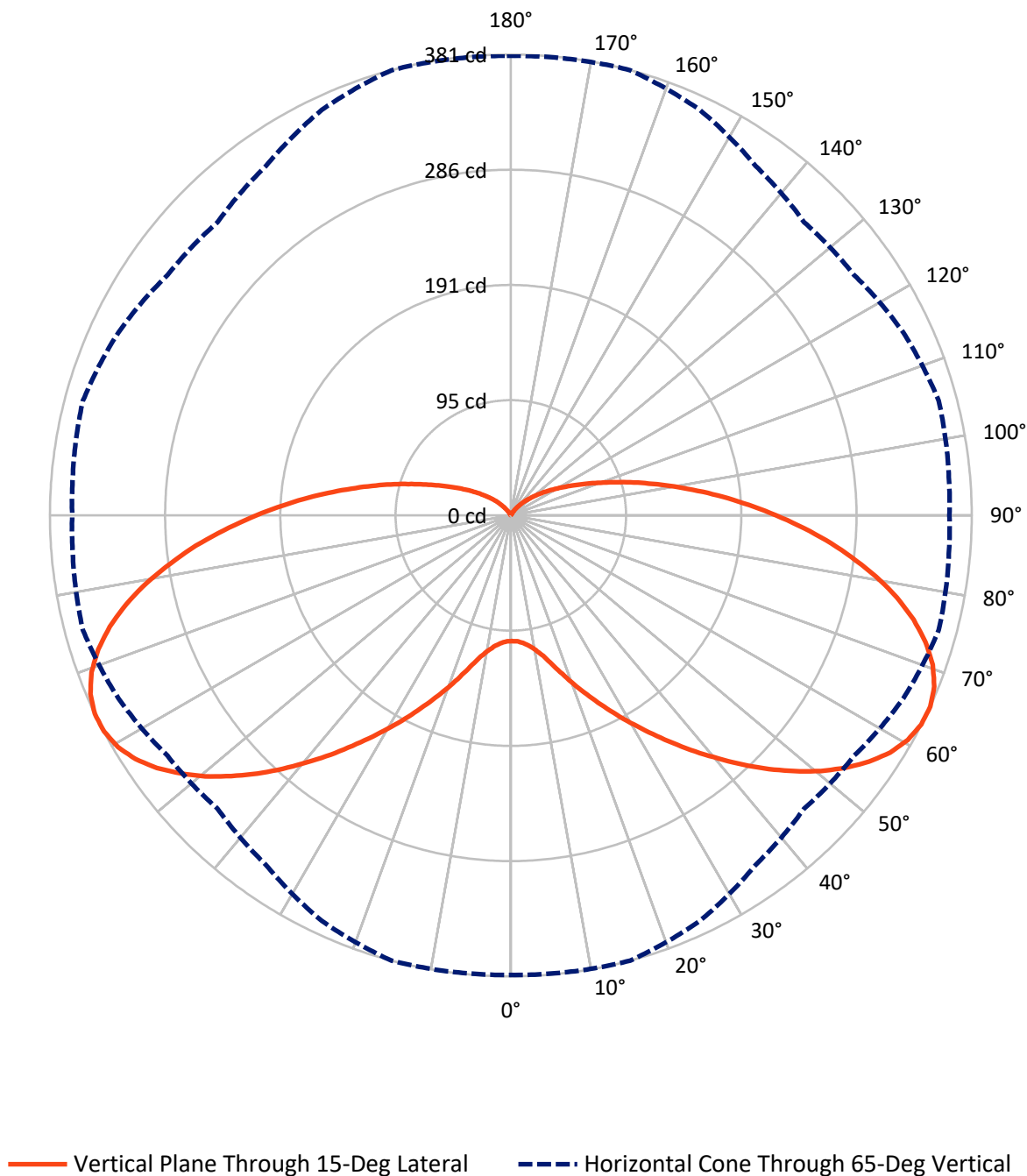


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P240100

CATALOG NUMBER: UTLD-AF24-20-D-U-5WQ-FP

Luminous Intensity Polar Plot



REPORT NUMBER: P240100

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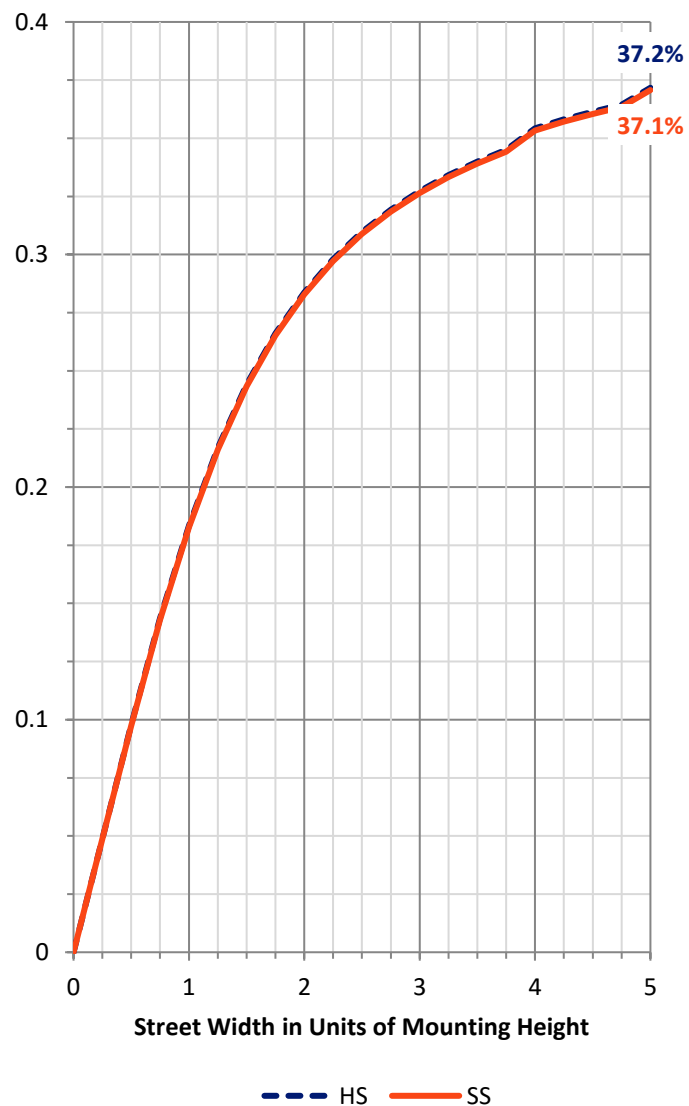
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	891.5	204.1	1095.6
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	891.5	204.1	1095.6
	% Fixture	40.7	9.3	50.0
Total	Lumens	1783.1	408.1	2191.2
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.5
10°-20°	36.7	1.7
20°-30°	80.2	3.7
30°-40°	144.4	6.6
40°-50°	225.9	10.3
50°-60°	307.7	14.0
60°-70°	357.0	16.3
70°-80°	344.9	15.7
80°-90°	276.1	12.6
90°-100°	188.1	8.6
100°-110°	113.5	5.2
110°-120°	61.9	2.8
120°-130°	30.0	1.4
130°-140°	11.7	0.5
140°-150°	2.8	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1783.1	81.4
0°-180°	2191.2	100.0

Coefficient of Utilization



REPORT NUMBER: P240100

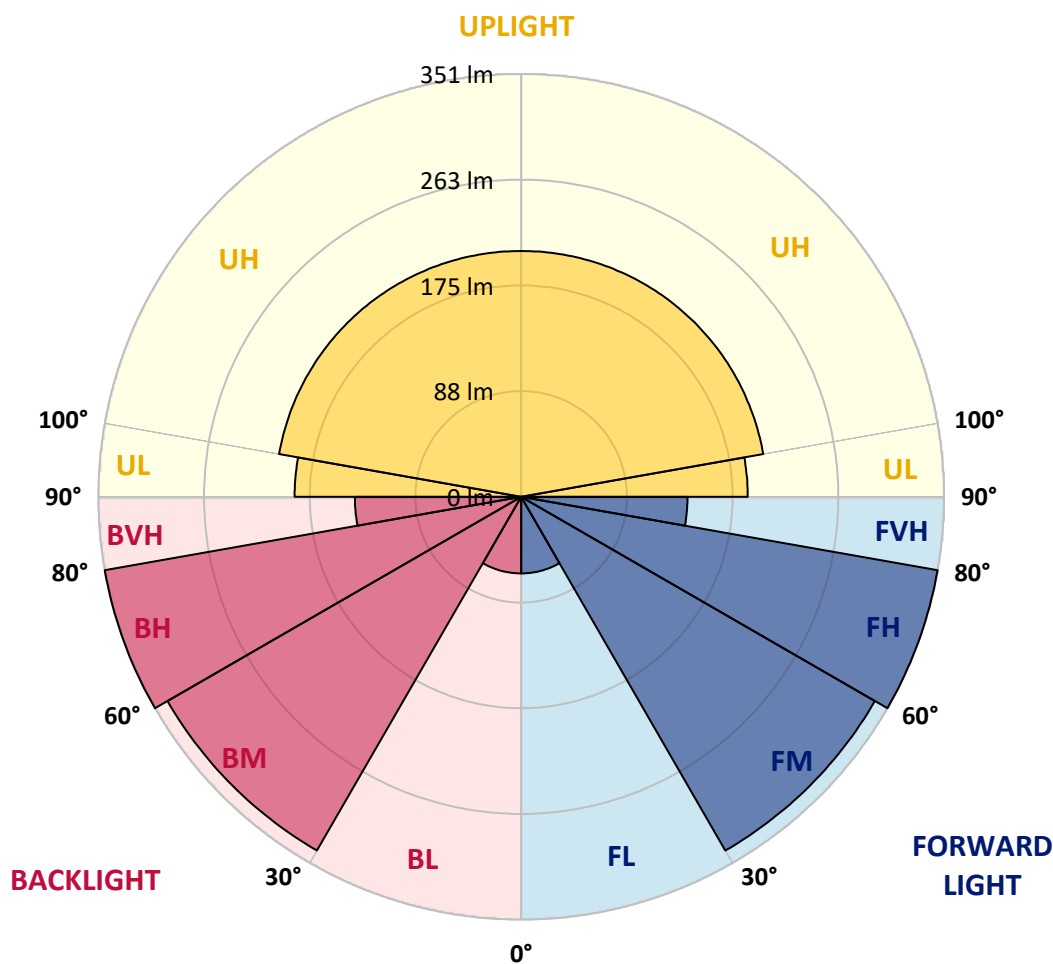
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	63.6	2.9			
FM	(30°-60°)	339.0	15.5			
FH	(60°-80°)	351.0	16.0			G0/660
FVH	(80°-90°)	138.0	6.3			G2/225
BL	(0°-30°)	63.6	2.9	B0/110		
BM	(30°-60°)	339.0	15.5	B1/1000		
BH	(60°-80°)	351.0	16.0	B1/500		G0/660
BVH	(80°-90°)	138.0	6.3			G2/225
UL	(90°-100°)	188.1	8.6		U3/500	
UH	(100°-180°)	204.1	9.3		U3/500	

BUG Rating: B1-U3-G2

Type V Short





REPORT NUMBER: P240100

CATALOG NUMBER: UTLD-AF24-20-D-U-5WQ-FP

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
2.5°	104.4	104.4	104.2	104.2	104.2	104.2	104.2	104.4	104.2	104.4	104.4
5°	105.9	106.1	105.9	105.9	106.1	105.9	105.9	106.1	105.9	105.9	105.9
7.5°	109.1	109.1	108.8	108.8	108.8	108.6	108.6	108.8	108.6	108.6	108.6
10°	113.5	113.5	113.2	113.2	113.0	112.7	112.7	112.7	113.0	113.0	113.0
12.5°	119.3	119.6	119.1	118.8	118.5	118.3	118.3	118.3	118.3	118.5	118.3
15°	128.1	128.1	127.6	126.4	125.6	125.4	124.8	125.4	125.9	126.2	126.7
17.5°	138.8	138.3	137.7	136.7	135.0	133.3	134.2	135.0	135.8	136.1	136.1
20°	149.9	149.9	149.0	147.4	146.0	144.6	144.8	145.5	146.0	146.5	146.3
22.5°	161.1	161.6	160.6	159.5	158.4	158.0	156.7	156.7	157.0	157.5	157.5
25°	174.6	174.0	173.2	172.1	171.9	171.9	169.9	168.8	169.1	169.4	169.4
27.5°	188.3	187.8	186.7	185.6	185.9	185.3	183.9	182.0	181.2	182.0	181.5
30°	202.0	201.8	200.7	199.9	200.4	199.9	198.2	195.2	194.7	194.9	195.2
32.5°	216.7	216.9	215.5	215.2	215.5	214.2	212.8	210.6	208.7	209.5	209.5
35°	232.8	232.8	231.0	231.2	230.4	229.0	227.4	225.7	223.8	224.6	224.0
37.5°	249.4	249.1	247.7	247.5	245.8	243.1	242.2	241.4	239.2	239.8	240.0
40°	267.0	266.2	264.2	263.9	260.6	257.6	257.1	257.1	254.6	255.9	256.2
42.5°	284.0	283.5	281.8	280.4	275.5	271.9	271.1	273.0	271.4	272.2	272.2
45°	301.1	299.6	299.1	296.7	290.0	285.4	285.6	288.2	288.4	288.4	287.9
47.5°	317.2	317.0	315.9	311.2	303.8	298.6	299.1	303.0	304.3	304.0	304.3
50°	333.2	332.4	332.2	326.0	316.2	310.2	311.5	316.4	319.5	318.6	319.0
52.5°	348.3	347.0	346.4	339.2	327.8	320.8	322.2	329.4	333.0	332.7	332.7
55°	360.2	359.6	359.4	350.6	337.4	329.9	331.8	339.8	345.3	344.2	343.9
57.5°	370.0	369.5	369.8	359.6	345.0	336.6	339.0	348.8	355.2	353.5	353.5
60°	377.2	376.7	377.0	366.2	350.6	341.2	344.2	354.7	362.0	360.2	359.9
62.5°	380.5	380.2	380.7	369.5	353.0	343.4	346.7	357.9	365.9	363.5	362.9
65°	379.9	380.2	381.0	369.8	352.7	342.8	346.4	357.9	366.2	363.5	362.6
67.5°	375.5	376.3	377.5	366.4	349.4	339.8	343.1	354.7	362.9	359.9	358.5
70°	367.3	368.2	370.0	359.6	343.4	333.8	336.8	348.0	355.5	351.9	350.3
72.5°	354.4	356.3	358.5	349.4	334.0	325.0	328.0	338.4	345.3	340.6	338.7
75°	338.2	340.9	343.9	336.2	321.9	313.6	316.7	326.0	330.7	326.3	322.7
77.5°	320.0	322.7	326.3	320.0	307.4	300.2	302.2	309.9	313.9	308.4	305.8
80°	298.0	301.1	306.0	301.9	291.6	284.6	286.7	292.3	294.2	288.4	284.8
82.5°	276.3	279.1	283.8	282.0	273.5	267.8	268.8	273.0	273.8	267.0	263.9
85°	253.0	255.4	261.5	261.2	254.8	250.2	251.0	253.5	251.5	244.2	240.8
87.5°	229.6	231.0	237.8	238.9	235.6	232.3	232.0	232.0	229.2	221.9	219.4
90°	206.7	208.1	214.7	218.3	216.4	213.6	213.1	212.0	206.4	199.6	197.9
92.5°	184.7	185.3	192.7	197.6	197.1	195.2	194.4	192.2	185.9	177.9	176.8
95°	164.1	164.7	171.9	177.3	178.7	178.2	176.5	173.5	165.2	157.2	157.0
97.5°	145.2	144.8	151.8	158.7	161.4	161.4	158.9	154.8	146.8	138.8	138.6
100°	127.9	127.3	133.6	141.9	144.8	145.5	143.2	137.7	128.7	122.3	122.7
102.5°	112.2	111.6	117.1	125.1	129.5	130.6	128.1	121.5	113.0	107.2	107.5
105°	98.4	97.9	102.5	110.3	115.2	116.3	113.5	107.2	97.9	93.7	94.3
107.5°	85.5	85.2	88.5	96.3	101.7	103.4	100.7	93.7	84.9	81.9	82.2
110°	75.3	75.1	76.7	83.9	89.9	91.6	88.3	81.1	73.7	71.7	72.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	66.3	65.5	66.5	72.8	78.4	80.3	77.0	69.6	63.8	62.9	63.2
115°	57.7	57.7	57.5	62.4	68.2	69.9	66.5	59.9	55.2	55.0	55.0
117.5°	50.8	50.3	50.0	53.1	58.3	60.3	57.2	51.1	48.1	48.4	48.7
120°	44.3	44.3	43.5	44.8	49.5	50.8	48.4	43.7	41.8	42.4	42.7
122.5°	38.8	38.5	37.6	38.0	41.2	42.9	40.4	36.8	36.3	37.4	37.4
125°	33.6	33.2	32.4	31.9	33.6	34.9	33.2	31.1	31.3	32.4	32.7
127.5°	28.8	28.6	27.5	26.4	27.2	28.0	26.9	25.9	27.2	28.0	28.3
130°	24.8	24.4	23.3	21.7	21.5	22.0	21.2	21.5	23.1	24.4	24.4
132.5°	20.9	20.9	19.5	17.6	16.5	16.5	16.5	17.6	19.5	20.7	20.9
135°	17.3	17.3	16.3	14.0	12.1	11.9	12.1	14.0	16.3	17.1	17.3
137.5°	14.3	14.0	12.9	11.0	8.5	8.0	8.5	10.7	12.9	14.0	14.0
140°	11.3	11.0	9.9	8.3	6.0	4.9	6.0	8.0	9.9	11.0	11.0
142.5°	8.3	8.3	7.2	5.7	3.9	3.1	3.9	5.7	7.5	8.0	8.3
145°	5.7	5.7	4.9	3.6	2.3	1.6	2.3	3.9	4.9	5.7	5.7
147.5°	3.9	3.9	3.3	2.3	1.3	0.8	1.3	2.5	3.3	3.9	3.9
150°	2.3	2.3	1.9	1.3	0.5	0.3	0.5	1.3	1.9	2.3	2.3
152.5°	1.1	1.1	0.8	0.5	0.3	0.3	0.3	0.5	1.1	1.1	1.3
155°	0.5	0.5	0.5	0.3	0.0	0.0	0.0	0.3	0.5	0.5	0.5
157.5°	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)