

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: P240101

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240101
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-AF24-30-D-U-5WQ-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA 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: 3066.8 lumens
Efficiency: N/A
Efficacy: 98.9 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: B1 - 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



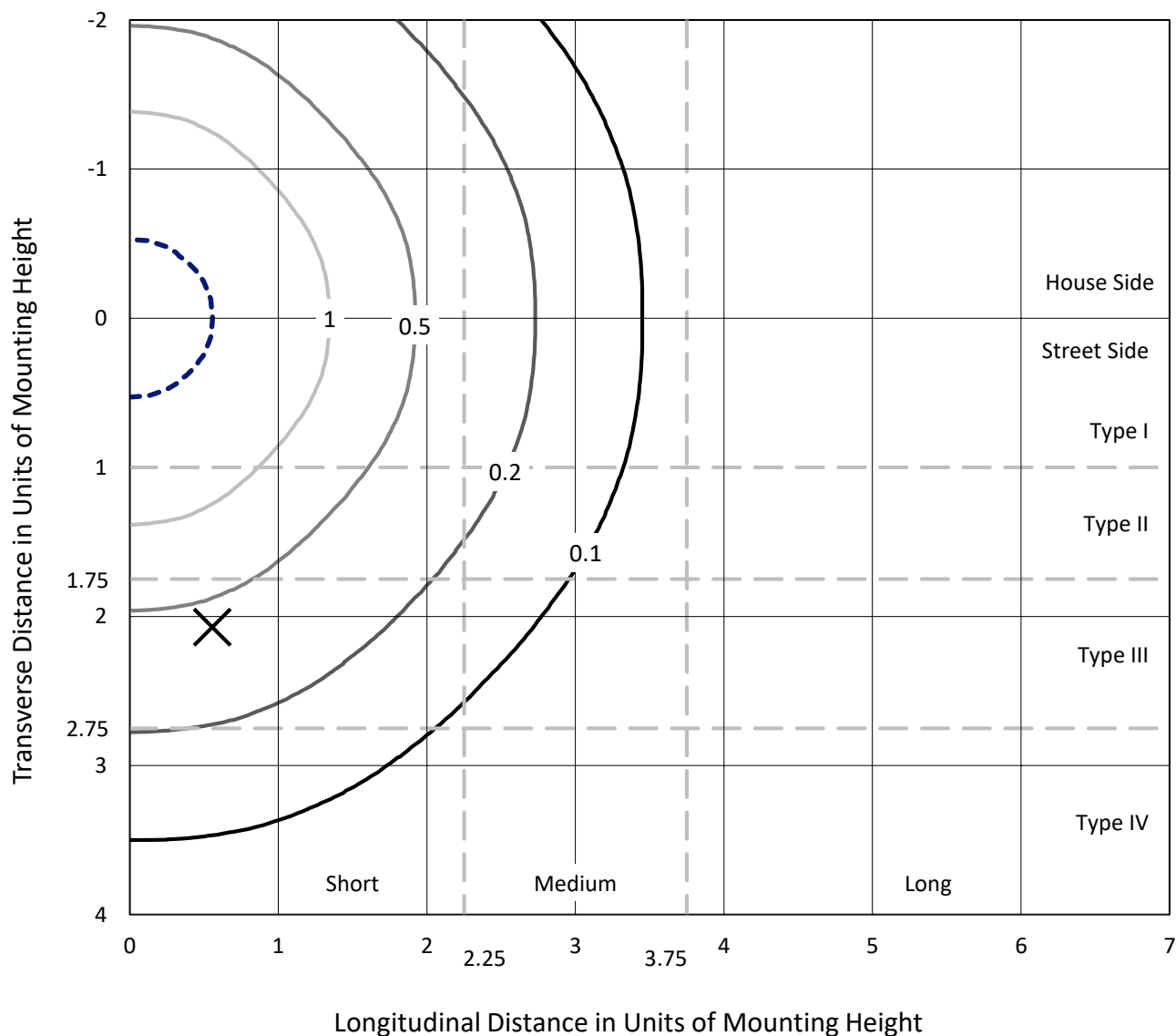
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

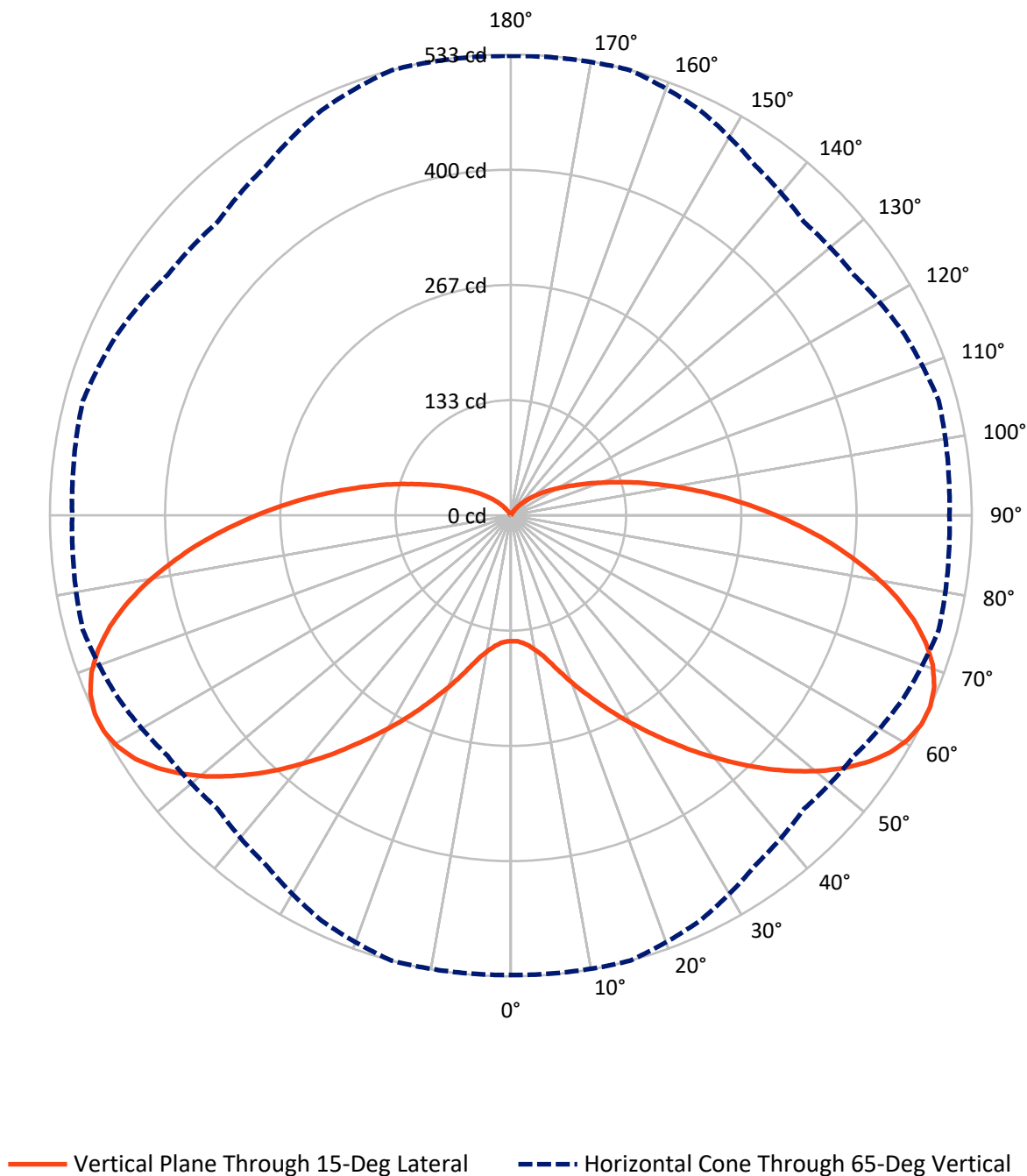


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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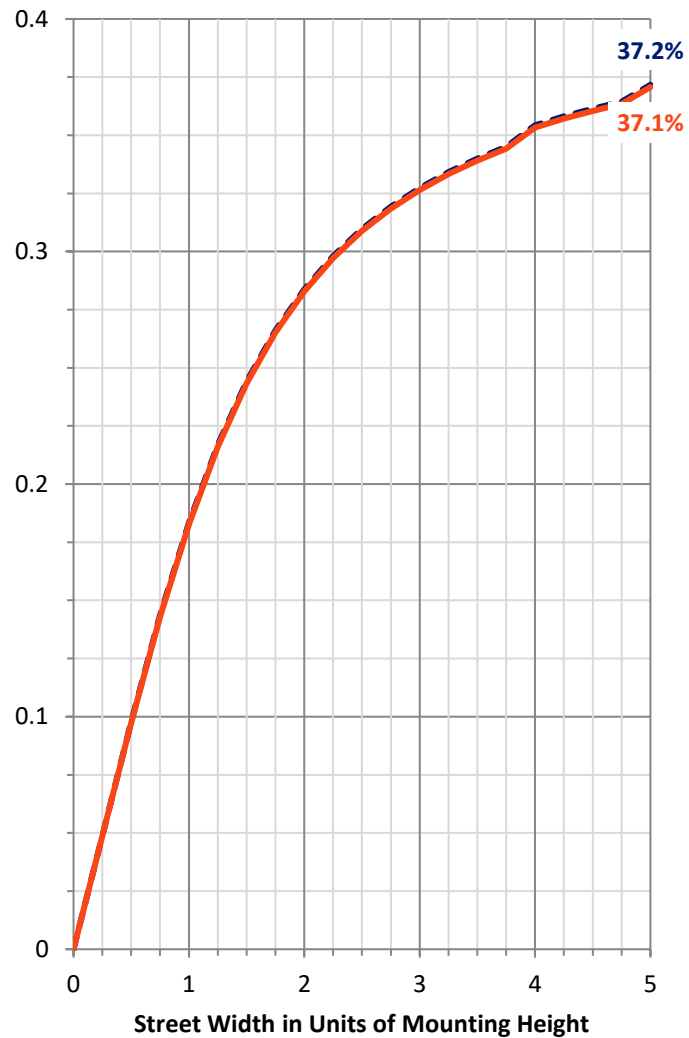
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1247.8	285.6	1533.4
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	1247.8	285.6	1533.4
	% Fixture	40.7	9.3	50.0
Total	Lumens	2495.6	571.2	3066.8
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	0.5
10°-20°	51.3	1.7
20°-30°	112.2	3.7
30°-40°	202.1	6.6
40°-50°	316.1	10.3
50°-60°	430.6	14.0
60°-70°	499.7	16.3
70°-80°	482.8	15.7
80°-90°	386.4	12.6
90°-100°	263.2	8.6
100°-110°	158.8	5.2
110°-120°	86.6	2.8
120°-130°	42.0	1.4
130°-140°	16.4	0.5
140°-150°	3.9	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2495.6	81.4
0°-180°	3066.8	100.0

Coefficient of Utilization



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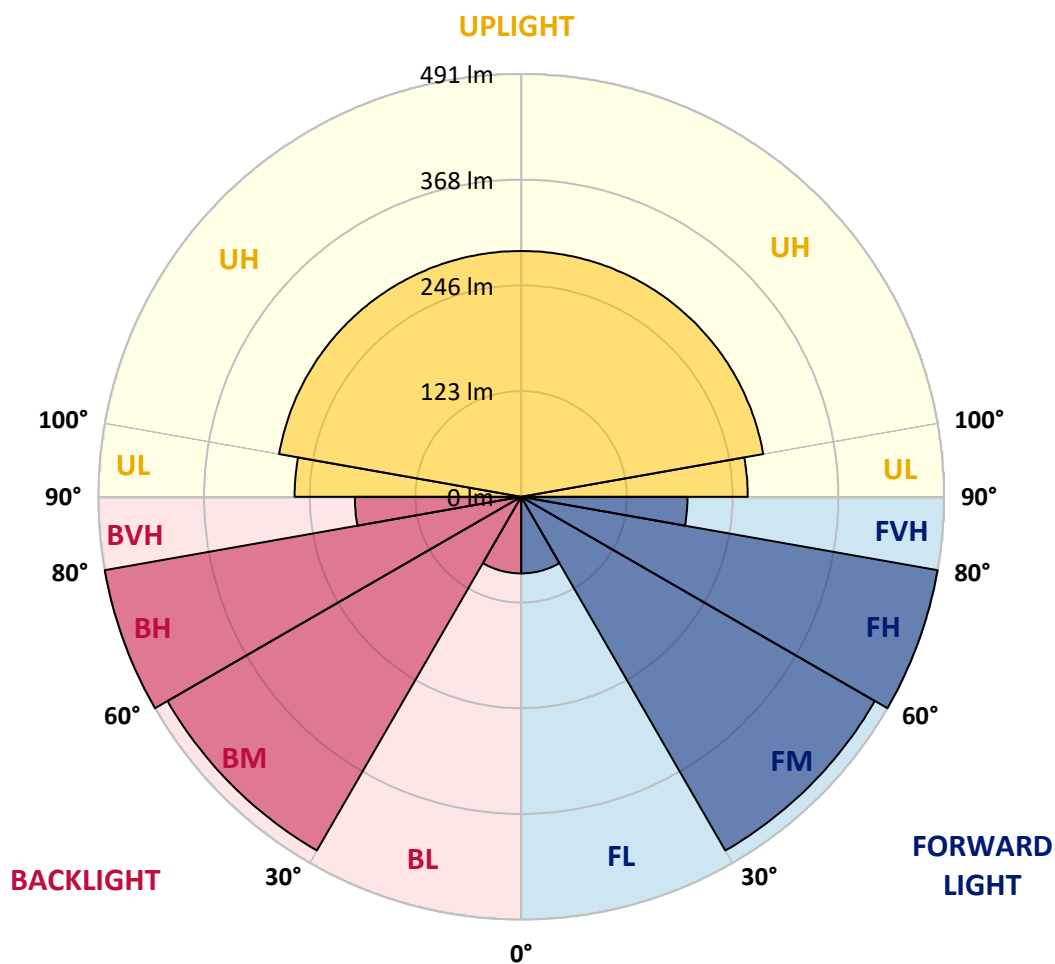
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	89.0	2.9			
FM	(30°-60°)	474.4	15.5			
FH	(60°-80°)	491.2	16.0			G0/660
FVH	(80°-90°)	193.2	6.3			G2/225
BL	(0°-30°)	89.0	2.9	B0/110		
BM	(30°-60°)	474.4	15.5	B1/1000		
BH	(60°-80°)	491.2	16.0	B1/500		G0/660
BVH	(80°-90°)	193.2	6.3			G2/225
UL	(90°-100°)	263.2	8.6		U3/500	
UH	(100°-180°)	285.6	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°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5
2.5°	146.2	146.2	145.9	145.9	145.9	145.9	145.9	146.2	145.9	146.2	146.2
5°	148.1	148.5	148.1	148.1	148.5	148.1	148.1	148.5	148.1	148.1	148.1
7.5°	152.7	152.7	152.4	152.4	152.4	152.0	152.0	152.4	152.0	152.0	152.0
10°	159.0	159.0	158.6	158.6	158.1	157.7	157.7	157.7	158.1	158.1	158.1
12.5°	167.0	167.4	166.2	166.2	165.8	165.4	165.4	165.4	165.4	165.8	165.4
15°	179.3	179.3	177.0	177.0	175.8	175.4	174.7	175.4	176.3	176.7	177.4
17.5°	194.4	193.5	191.2	191.2	188.9	186.6	187.8	188.9	190.1	190.5	190.5
20°	209.7	209.7	206.2	206.2	204.3	202.4	202.7	203.6	204.3	205.1	204.7
22.5°	225.5	226.3	223.2	223.2	221.7	221.3	219.3	219.3	219.7	220.4	220.4
25°	244.4	243.6	240.9	240.9	240.5	240.5	237.8	236.3	236.6	237.0	237.0
27.5°	263.6	262.8	259.7	259.7	260.1	259.3	257.4	254.7	253.6	254.7	254.0
30°	282.8	282.4	279.8	279.8	280.5	279.8	277.4	273.2	272.4	272.8	273.2
32.5°	303.2	303.6	301.3	301.3	301.7	299.7	297.8	294.7	292.1	293.2	293.2
35°	325.9	325.9	323.6	323.6	322.4	320.5	318.2	315.9	313.2	314.4	313.6
37.5°	349.0	348.6	346.3	346.3	344.0	340.1	339.0	337.9	334.8	335.5	335.9
40°	373.6	372.5	369.4	369.4	364.8	360.6	359.8	359.8	356.3	358.2	358.6
42.5°	397.5	396.7	392.5	392.5	385.6	380.5	379.4	382.1	379.8	380.9	380.9
45°	421.4	419.4	415.2	415.2	405.9	399.4	399.8	403.2	403.7	403.7	402.8
47.5°	444.1	443.7	435.6	435.6	425.2	417.9	418.7	424.0	426.0	425.5	426.0
50°	466.4	465.2	456.3	456.3	442.5	434.0	436.0	442.9	447.1	446.0	446.3
52.5°	487.5	485.6	474.9	474.9	458.7	449.1	451.0	460.9	466.0	465.5	465.5
55°	504.1	503.3	490.6	490.6	472.1	461.8	464.4	475.6	483.2	481.7	481.4
57.5°	517.9	517.2	503.3	503.3	482.9	471.0	474.4	488.3	497.2	494.8	494.8
60°	527.9	527.1	512.5	512.5	490.6	477.5	481.7	496.3	506.8	504.1	503.7
62.5°	532.5	532.1	517.2	517.2	494.1	480.6	485.2	501.0	512.2	508.7	507.9
65°	531.7	532.1	517.5	517.5	493.7	479.9	484.9	501.0	512.5	508.7	507.5
67.5°	525.6	526.8	512.9	512.9	489.1	475.6	480.2	496.3	507.9	503.7	501.8
70°	514.0	515.3	503.3	503.3	480.6	467.2	471.4	487.1	497.6	492.6	490.2
72.5°	496.0	498.7	489.1	489.1	467.5	454.8	459.1	473.6	483.2	476.8	474.0
75°	473.3	477.1	470.6	470.6	450.6	439.1	443.2	456.3	462.9	456.7	451.7
77.5°	447.8	451.7	447.8	447.8	430.2	420.2	422.9	433.6	439.5	431.7	427.9
80°	417.2	421.4	422.5	422.5	408.3	398.2	401.3	409.1	411.7	403.7	398.6
82.5°	386.7	390.6	394.8	394.8	382.9	374.8	376.3	382.1	383.2	373.6	369.4
85°	354.0	357.4	365.5	365.5	356.7	350.2	351.3	354.8	352.1	341.7	337.1
87.5°	321.3	323.3	334.4	334.4	329.8	325.2	324.8	324.8	320.9	310.6	307.1
90°	289.4	291.2	305.6	305.6	302.8	299.0	298.2	296.7	289.0	279.4	277.0
92.5°	258.6	259.3	276.7	276.7	275.9	273.2	272.0	268.9	260.1	249.0	247.5
95°	229.8	230.5	248.2	248.2	250.1	249.3	247.0	242.8	231.3	220.1	219.7
97.5°	203.2	202.7	222.0	222.0	225.9	225.9	222.4	216.7	205.5	194.4	194.0
100°	178.9	178.2	198.6	198.6	202.7	203.6	200.5	192.8	180.0	171.2	171.7
102.5°	157.0	156.2	175.1	175.1	181.3	182.8	179.3	170.1	158.1	150.1	150.5
105°	137.8	137.0	154.3	154.3	161.2	162.8	159.0	150.1	137.0	131.2	132.0
107.5°	119.7	119.3	134.7	134.7	142.4	144.6	140.9	131.2	118.9	114.7	115.1
110°	105.5	105.1	117.3	117.3	125.8	128.2	123.5	113.5	103.1	100.5	100.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	92.8	91.6	93.1	102.0	109.7	112.3	107.7	97.4	89.3	88.1	88.5
115°	80.8	80.8	80.4	87.4	95.4	97.7	93.1	83.9	77.3	76.9	76.9
117.5°	71.2	70.4	70.1	74.3	81.5	84.3	80.0	71.6	67.3	67.7	68.1
120°	62.0	62.0	60.8	62.7	69.3	71.2	67.7	61.2	58.5	59.2	59.6
122.5°	54.2	53.9	52.7	53.1	57.7	60.0	56.6	51.6	50.8	52.4	52.4
125°	47.0	46.5	45.4	44.6	47.0	48.9	46.5	43.5	43.9	45.4	45.8
127.5°	40.4	40.0	38.5	36.9	38.1	39.3	37.7	36.2	38.1	39.3	39.6
130°	34.7	34.3	32.7	30.4	30.0	30.8	29.7	30.0	32.3	34.3	34.3
132.5°	29.3	29.3	27.3	24.7	23.1	23.1	23.1	24.7	27.3	28.8	29.3
135°	24.2	24.2	22.7	19.6	17.0	16.6	17.0	19.6	22.7	23.8	24.2
137.5°	20.0	19.6	18.1	15.3	12.0	11.2	12.0	15.0	18.1	19.6	19.6
140°	15.8	15.3	13.8	11.6	8.5	7.0	8.5	11.2	13.8	15.3	15.3
142.5°	11.6	11.6	10.0	8.1	5.4	4.2	5.4	8.1	10.4	11.2	11.6
145°	8.1	8.1	7.0	5.0	3.1	2.4	3.1	5.4	7.0	8.1	8.1
147.5°	5.4	5.4	4.6	3.1	1.9	1.1	1.9	3.5	4.6	5.4	5.4
150°	3.1	3.1	2.7	1.9	0.8	0.4	0.8	1.9	2.7	3.1	3.1
152.5°	1.5	1.5	1.1	0.8	0.4	0.4	0.4	0.8	1.5	1.5	1.9
155°	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.4	0.8	0.8	0.8
157.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)