

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: P239830

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-5WQ-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2087 lumens
Efficiency: N/A
Efficacy: 99.4 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 - G1

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



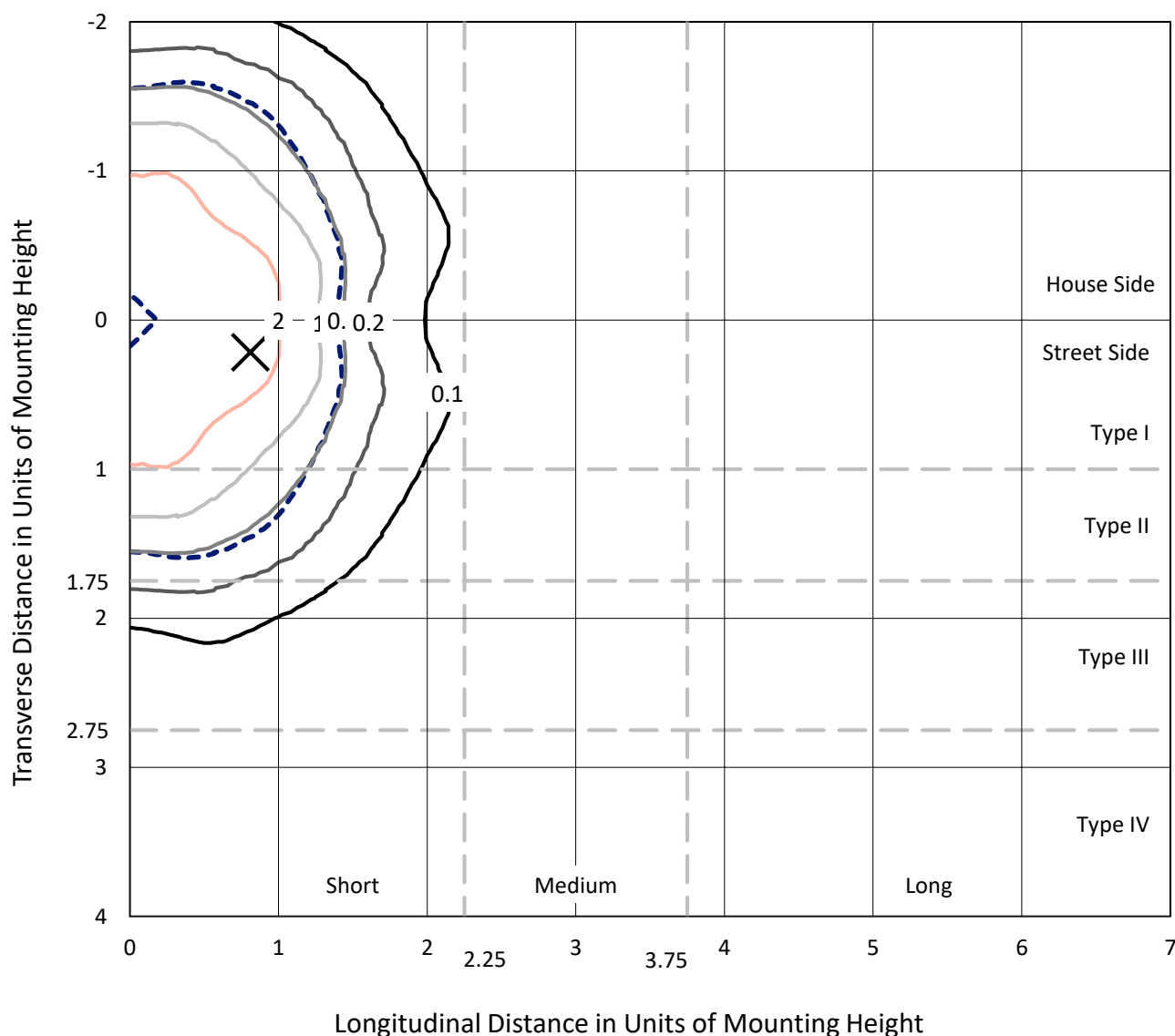
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

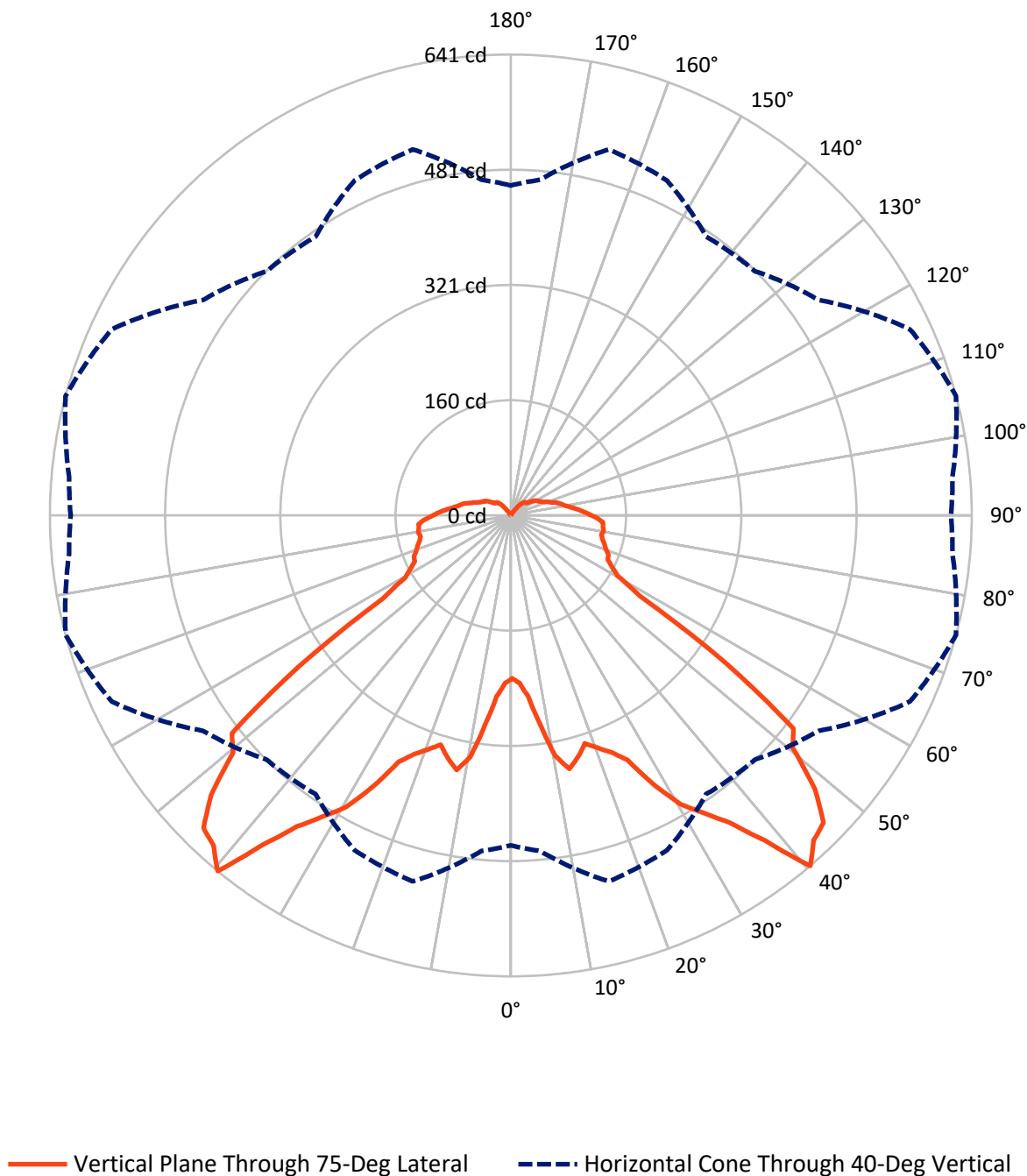


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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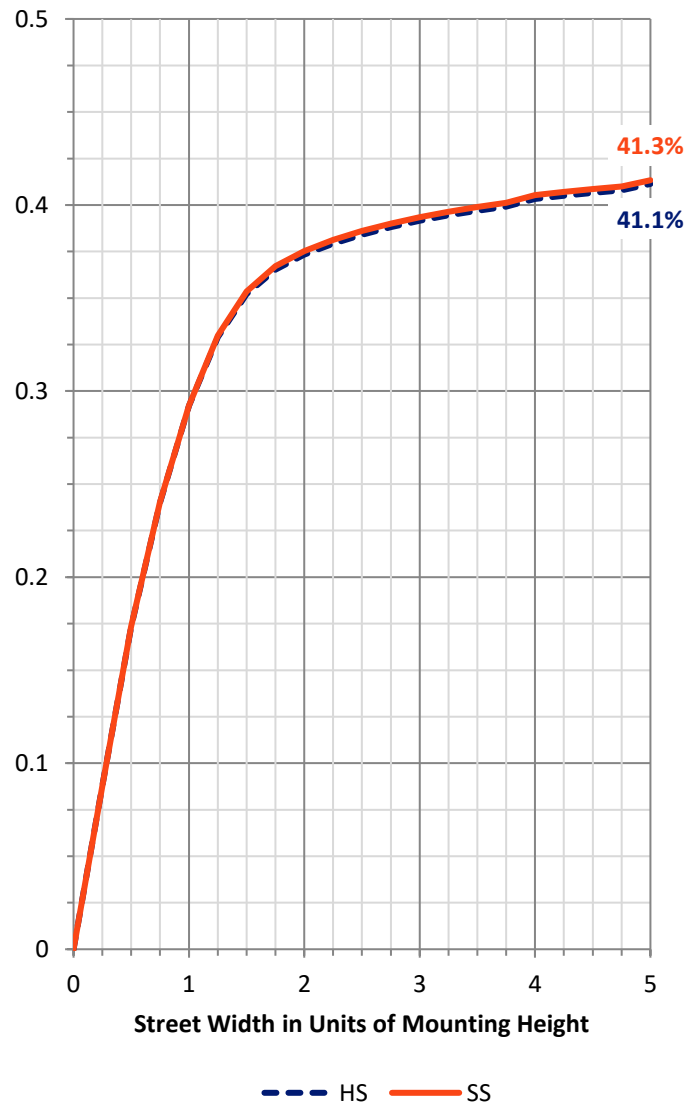
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.1	141.4	1043.5
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	902.1	141.4	1043.5
	% Fixture	43.2	6.8	50.0
Total	Lumens	1804.3	282.8	2087.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	1.3
10°-20°	108.7	5.2
20°-30°	194.2	9.3
30°-40°	307.4	14.7
40°-50°	412.5	19.8
50°-60°	328.3	15.7
60°-70°	150.7	7.2
70°-80°	137.4	6.6
80°-90°	138.4	6.6
90°-100°	106.4	5.1
100°-110°	74.3	3.6
110°-120°	49.1	2.4
120°-130°	30.7	1.5
130°-140°	17.9	0.9
140°-150°	4.1	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1804.3	86.5
0°-180°	2087.0	100.0

Coefficient of Utilization



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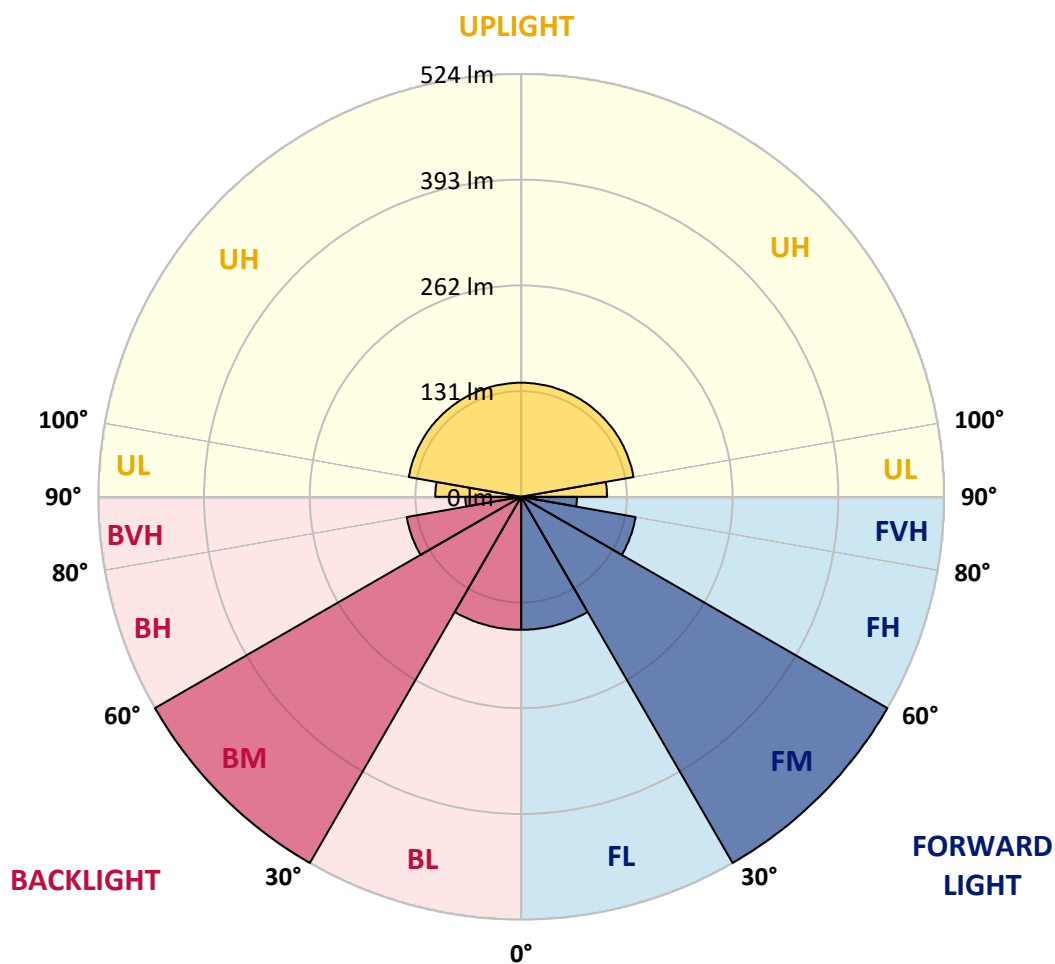
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.8	7.9			
FM	(30°-60°)	524.1	25.1			
FH	(60°-80°)	144.0	6.9			G0/660
FVH	(80°-90°)	69.2	3.3			G1/100
BL	(0°-30°)	164.8	7.9	B1/500		
BM	(30°-60°)	524.1	25.1	B1/1000		
BH	(60°-80°)	144.0	6.9	B1/500		G0/660
BVH	(80°-90°)	69.2	3.3			G1/100
UL	(90°-100°)	106.4	5.1		U3/500	
UH	(100°-180°)	141.4	6.8		U3/500	

BUG Rating: B1-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8	226.8
2.5°	232.9	232.9	232.9	232.3	232.9	233.4	234.0	234.0	233.7	232.9	232.3
5°	249.3	249.3	249.0	249.6	249.6	248.4	249.0	251.0	252.9	251.5	251.0
7.5°	289.0	288.2	286.2	284.6	282.6	282.6	286.8	289.3	293.7	294.3	292.9
10°	329.0	330.2	331.3	331.3	336.0	341.3	344.9	343.8	340.4	337.9	336.3
12.5°	340.7	341.5	351.3	375.7	393.8	408.5	396.0	377.1	362.1	352.4	351.3
15°	349.6	351.8	364.1	394.6	439.9	452.2	426.3	378.2	349.1	335.2	332.1
17.5°	358.5	361.0	381.6	425.8	461.6	458.5	427.4	376.0	333.5	315.1	312.9
20°	350.7	353.5	382.4	441.6	467.7	453.0	442.2	393.8	345.4	324.3	321.8
22.5°	353.8	356.6	385.7	443.3	459.4	460.2	443.5	414.6	357.9	333.8	329.9
25°	359.3	361.6	397.7	455.8	456.0	453.8	445.5	429.6	376.8	353.8	350.4
27.5°	359.3	361.3	401.9	450.5	453.5	448.5	459.1	464.9	424.4	403.8	404.6
30°	375.5	376.6	418.5	449.9	443.0	446.9	476.6	494.4	466.6	433.5	433.3
32.5°	406.9	412.1	456.3	469.1	441.9	445.5	481.1	512.2	494.1	454.4	449.9
35°	447.2	448.5	489.1	485.8	449.9	448.0	491.6	540.3	525.0	485.8	484.4
37.5°	460.2	462.2	510.5	501.6	459.7	461.3	509.1	574.4	573.9	542.5	532.5
40°	459.1	468.8	527.2	514.1	473.6	480.5	522.7	612.8	641.4	617.0	612.5
42.5°	541.9	546.9	581.1	533.9	486.3	486.3	528.3	605.3	618.1	571.4	562.2
45°	550.5	550.3	587.8	550.0	489.7	478.3	508.6	576.7	610.0	579.2	565.5
47.5°	532.7	539.7	586.4	540.8	483.6	455.5	474.7	543.9	569.7	522.2	511.4
50°	513.6	518.9	554.4	498.8	453.3	433.3	447.7	497.7	508.0	450.8	442.4
52.5°	461.0	461.6	503.8	459.9	426.9	406.3	418.0	464.4	492.5	437.7	431.9
55°	390.7	398.2	451.9	424.6	395.7	378.0	380.2	388.0	363.2	281.2	262.1
57.5°	298.8	308.5	371.0	372.4	350.2	321.8	290.7	246.2	212.0	136.2	130.9
60°	203.4	211.8	259.0	270.7	279.6	247.1	201.2	175.6	170.4	118.1	114.2
62.5°	125.9	132.8	177.0	181.2	200.6	180.4	159.5	151.7	157.9	112.8	110.1
65°	116.4	121.2	153.7	147.6	152.3	151.2	142.0	140.6	148.1	110.1	108.1
67.5°	112.6	116.4	142.3	137.8	139.8	141.5	135.1	136.2	146.5	112.3	110.1
70°	110.6	114.8	138.7	135.6	137.6	139.2	135.3	133.7	140.3	113.1	110.1
72.5°	109.2	113.7	133.1	131.2	136.5	140.9	137.0	133.4	136.2	113.7	110.6
75°	106.7	111.2	128.1	129.2	137.3	142.6	137.6	132.0	131.7	112.6	108.9
77.5°	106.2	111.2	122.8	129.8	137.6	144.5	140.6	132.6	128.9	113.1	108.7
80°	105.3	110.9	125.3	134.2	139.8	143.4	141.7	136.2	130.9	117.3	112.6
82.5°	110.1	115.1	127.6	137.6	139.2	138.7	138.7	135.1	129.2	117.6	113.1
85°	115.9	119.8	132.8	138.7	137.3	133.7	132.0	131.7	128.9	120.6	117.0
87.5°	114.8	117.6	126.4	132.0	132.6	125.3	125.6	123.9	120.9	112.6	109.5
90°	107.3	109.2	119.2	125.1	121.4	115.6	113.1	109.8	110.1	102.5	100.3
92.5°	102.3	104.5	111.7	115.1	114.5	104.8	103.1	102.8	101.2	94.8	93.4
95°	95.6	97.0	103.1	107.6	104.8	94.8	93.1	91.7	92.0	89.5	89.8
97.5°	93.9	95.0	99.5	98.7	93.9	85.3	84.2	83.7	83.4	82.0	81.7
100°	90.3	90.3	91.7	89.2	83.7	77.3	75.6	75.9	76.1	74.5	73.9
102.5°	84.2	84.5	85.0	82.8	77.5	70.9	69.2	70.6	71.1	70.6	70.3
105°	79.8	79.5	79.8	77.3	71.4	65.6	63.6	65.0	66.4	66.7	66.1
107.5°	73.1	72.8	72.8	70.3	65.9	61.1	59.5	58.6	58.6	58.6	58.6
110°	63.4	63.6	63.6	62.5	60.3	57.5	55.3	53.6	54.2	53.9	54.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	58.9	58.9	58.4	57.5	55.3	52.5	50.0	48.9	48.4	48.1	48.4
115°	54.2	54.5	52.8	52.2	50.0	48.4	45.9	45.0	45.0	45.9	46.4
117.5°	50.0	50.0	48.9	47.5	45.6	44.2	43.1	42.5	42.5	43.6	43.6
120°	45.3	45.3	44.2	42.5	41.7	39.7	40.0	39.7	40.6	42.0	42.2
122.5°	40.0	40.0	38.9	37.5	38.1	36.7	36.1	35.0	36.7	38.4	38.6
125°	35.6	35.3	34.2	32.5	34.7	34.7	33.3	29.7	32.0	33.3	33.6
127.5°	32.5	32.2	30.8	29.2	32.0	33.6	30.6	27.0	28.1	29.5	30.0
130°	30.8	30.6	29.2	27.2	28.1	32.0	27.5	25.8	27.2	28.6	28.6
132.5°	29.7	29.5	28.3	26.4	25.0	29.2	24.7	25.3	27.2	28.6	28.6
135°	27.5	27.5	26.1	23.3	20.0	21.4	20.0	22.8	25.0	26.1	26.4
137.5°	23.6	23.6	22.5	20.0	16.1	15.3	15.8	19.5	22.0	23.1	23.1
140°	18.6	18.3	17.2	15.0	10.6	7.2	10.3	14.7	17.2	18.3	18.3
142.5°	13.1	12.8	11.4	9.2	5.6	2.5	5.6	8.9	11.4	12.5	12.8
145°	8.3	8.3	7.2	5.6	2.8	0.8	2.2	5.3	6.9	8.1	8.1
147.5°	5.3	5.3	4.4	3.1	0.8	0.6	0.8	2.5	4.2	5.0	5.3
150°	3.1	3.1	2.2	1.1	0.6	0.3	0.6	0.8	1.7	2.5	2.5
152.5°	1.1	0.8	0.6	0.6	0.3	0.3	0.3	0.6	0.6	0.8	0.8
155°	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3	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)