

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: P266256

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
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-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 1813.8 lumens
Efficiency: N/A
Efficacy: 86.4 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

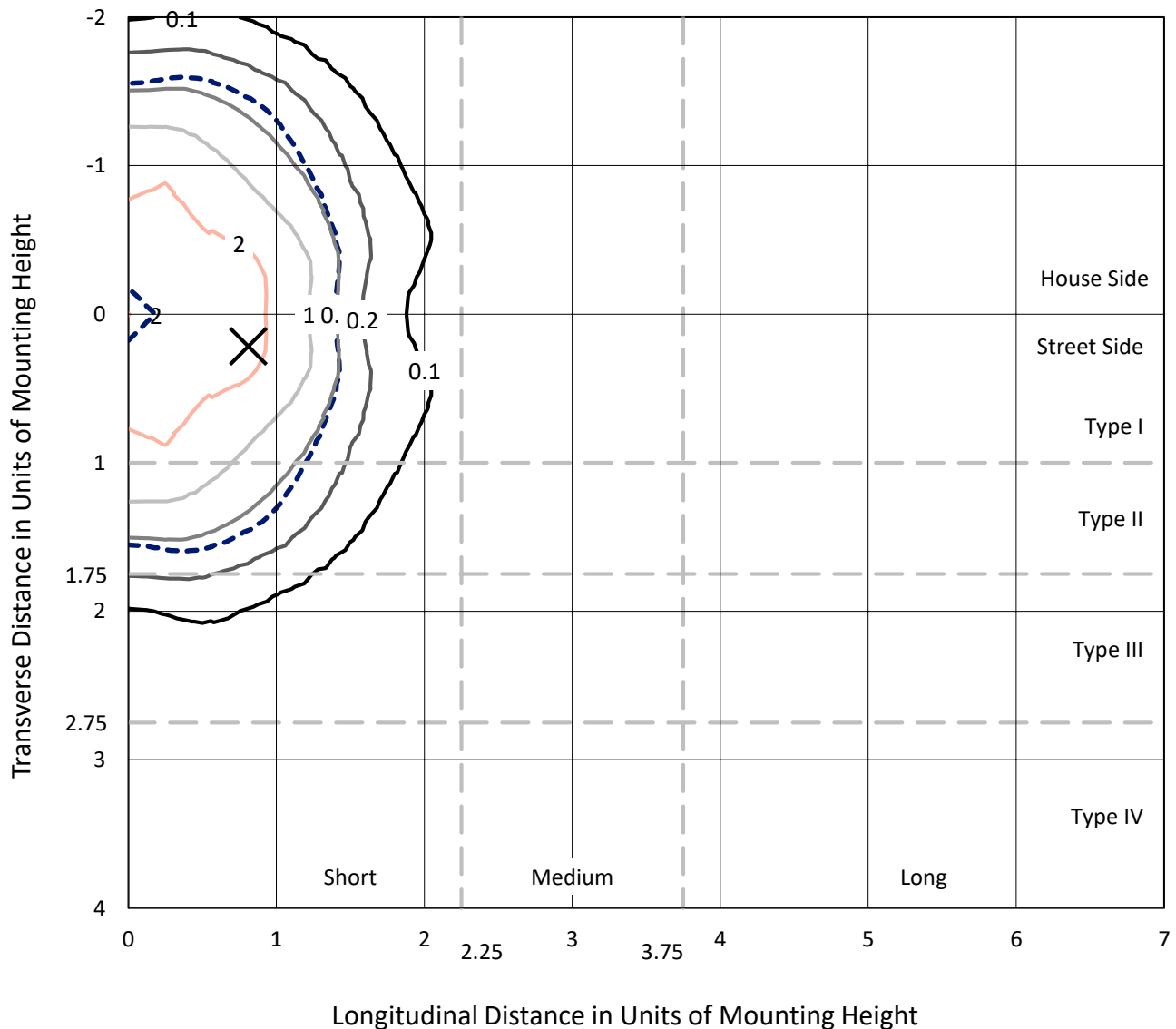


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

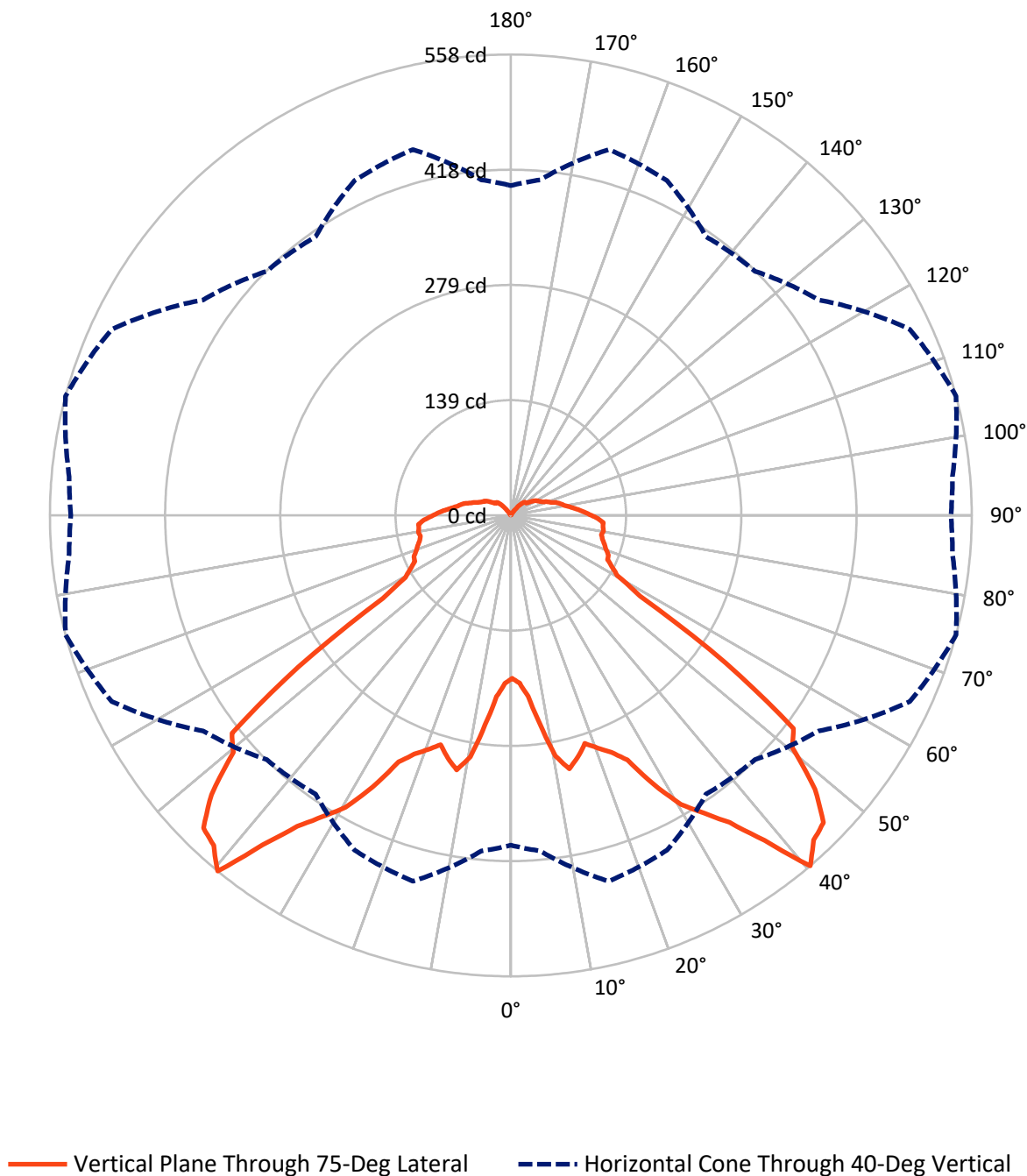


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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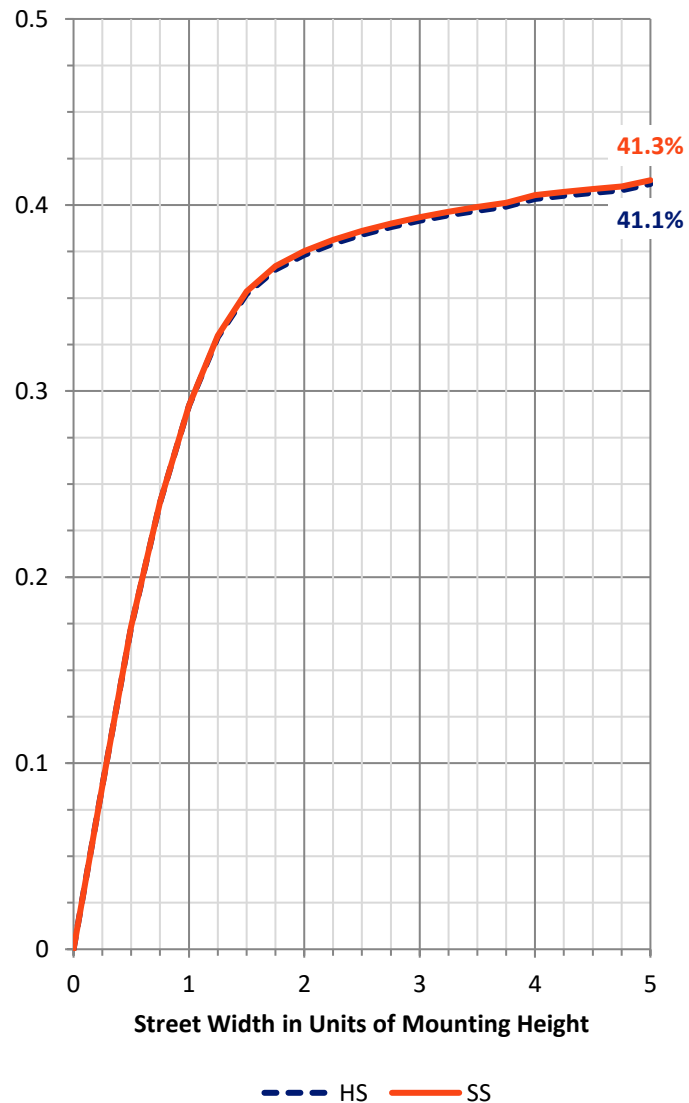
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	784.0	122.9	906.9
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	784.0	122.9	906.9
	% Fixture	43.2	6.8	50.0
Total	Lumens	1568.1	245.8	1813.8
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	1.3
10°-20°	94.5	5.2
20°-30°	168.8	9.3
30°-40°	267.2	14.7
40°-50°	358.5	19.8
50°-60°	285.3	15.7
60°-70°	131.0	7.2
70°-80°	119.4	6.6
80°-90°	120.3	6.6
90°-100°	92.5	5.1
100°-110°	64.6	3.6
110°-120°	42.7	2.4
120°-130°	26.7	1.5
130°-140°	15.6	0.9
140°-150°	3.5	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1568.1	86.5
0°-180°	1813.8	100.0

Coefficient of Utilization



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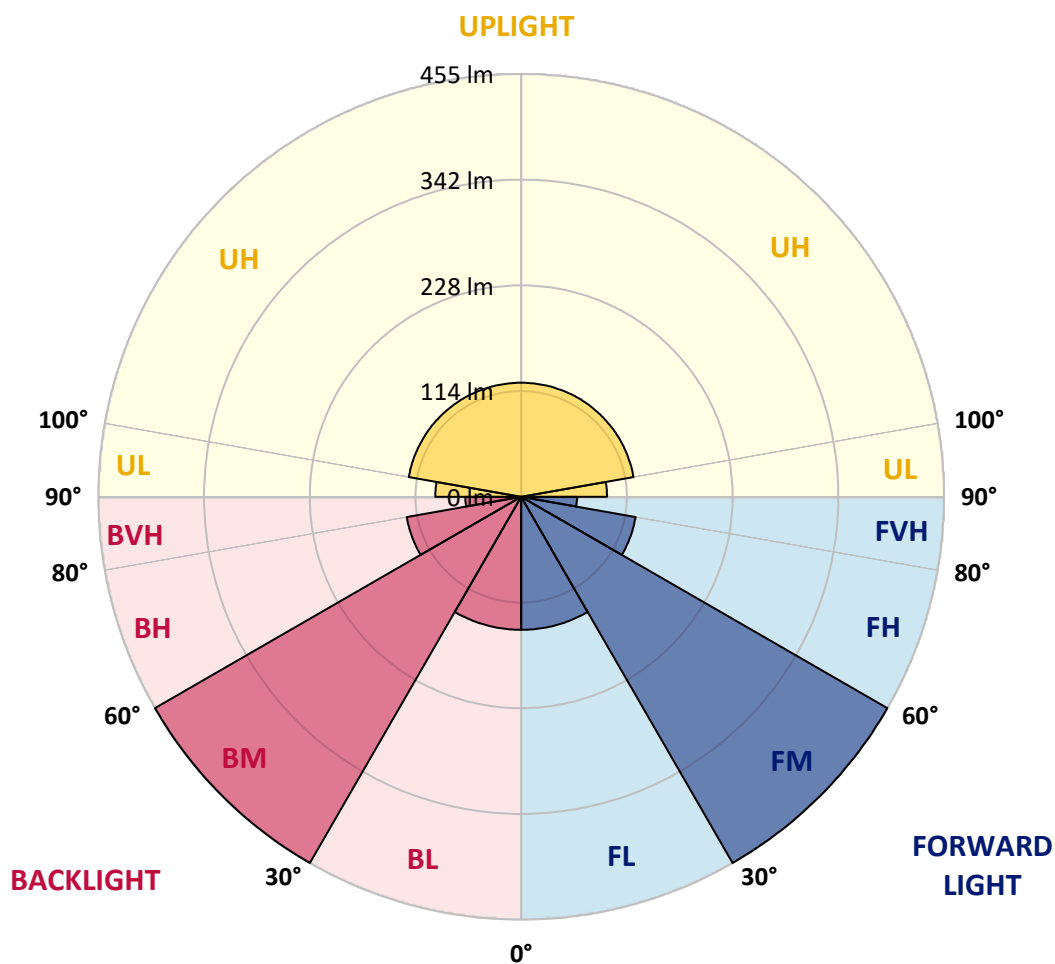
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.2	7.9			
FM	(30°-60°)	455.5	25.1			
FH	(60°-80°)	125.2	6.9			G0/660
FVH	(80°-90°)	60.1	3.3			G1/100
BL	(0°-30°)	143.2	7.9	B1/500		
BM	(30°-60°)	455.5	25.1	B1/1000		
BH	(60°-80°)	125.2	6.9	B1/500		G0/660
BVH	(80°-90°)	60.1	3.3			G1/100
UL	(90°-100°)	92.5	5.1		U3/500	
UH	(100°-180°)	122.9	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°	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1
2.5°	202.4	202.4	202.4	201.8	202.4	202.8	203.3	203.3	203.1	202.4	201.8
5°	216.6	216.6	216.4	216.9	216.9	216.0	216.4	218.1	219.7	218.6	218.1
7.5°	251.2	250.4	248.8	247.4	245.6	245.6	249.3	251.4	255.3	255.7	254.6
10°	286.0	286.9	287.8	287.8	291.9	296.6	299.8	298.7	295.9	293.7	292.3
12.5°	296.1	296.8	305.2	326.5	342.3	355.0	344.2	327.7	314.6	306.2	305.2
15°	303.8	305.8	316.5	343.0	382.3	393.0	370.6	328.7	303.4	291.3	288.6
17.5°	311.5	313.8	331.7	370.0	401.2	398.5	371.4	326.8	289.9	274.0	271.9
20°	304.9	307.2	332.4	383.8	406.6	393.6	384.2	342.3	300.3	281.9	279.7
22.5°	307.5	309.8	335.2	385.3	399.2	399.9	385.5	360.4	311.2	290.1	286.6
25°	312.3	314.2	345.6	396.2	396.3	394.4	387.2	373.3	327.5	307.5	304.5
27.5°	312.3	314.0	349.3	391.5	394.1	389.9	398.9	404.1	368.8	351.0	351.6
30°	326.4	327.3	363.8	391.0	385.1	388.3	414.2	429.7	405.6	376.7	376.5
32.5°	353.7	358.2	396.6	407.7	384.0	387.2	418.2	445.1	429.4	394.9	391.0
35°	388.5	389.9	425.1	422.3	391.0	389.3	427.2	469.5	456.2	422.3	420.9
37.5°	399.9	401.6	443.8	435.9	399.4	401.0	442.4	499.3	498.7	471.5	462.7
40°	398.9	407.4	458.1	446.8	411.6	417.6	454.4	532.5	557.5	536.2	532.3
42.5°	471.0	475.4	505.0	464.0	422.7	422.7	459.2	526.0	537.1	496.6	488.6
45°	478.4	478.2	510.9	478.0	425.5	415.6	442.0	501.2	530.2	503.3	491.6
47.5°	462.9	469.0	509.6	470.1	420.2	395.9	412.5	472.7	495.1	453.9	444.4
50°	446.4	450.9	481.9	433.5	393.9	376.5	389.1	432.5	441.4	391.8	384.6
52.5°	400.7	401.2	437.8	399.7	371.0	353.2	363.3	403.6	428.0	380.4	375.3
55°	339.6	346.0	392.6	369.1	344.0	328.5	330.3	337.1	315.7	244.3	227.8
57.5°	259.6	268.1	322.4	323.7	304.3	279.7	252.7	213.9	184.3	118.3	113.7
60°	176.7	184.1	225.0	235.3	243.0	214.8	174.9	152.6	148.0	102.6	99.3
62.5°	109.5	115.4	153.9	157.5	174.5	156.8	138.7	132.0	137.3	98.1	95.6
65°	101.1	105.3	133.6	128.3	132.4	131.4	123.3	122.2	128.7	95.6	94.0
67.5°	97.8	101.1	123.6	119.8	121.5	123.0	117.4	118.3	127.3	97.6	95.6
70°	96.1	99.7	120.6	117.9	119.6	121.0	117.6	116.2	122.0	98.4	95.6
72.5°	95.0	98.8	115.7	114.1	118.5	122.4	119.0	115.9	118.3	98.8	96.1
75°	92.7	96.6	111.3	112.3	119.4	123.8	119.6	114.8	114.4	97.8	94.7
77.5°	92.3	96.6	106.8	112.7	119.6	125.7	122.2	115.3	112.1	98.4	94.4
80°	91.5	96.4	109.0	116.7	121.5	124.7	123.2	118.3	113.7	101.9	97.8
82.5°	95.6	100.0	110.9	119.6	121.0	120.6	120.6	117.4	112.3	102.1	98.4
85°	100.7	104.2	115.4	120.6	119.4	116.2	114.8	114.4	112.1	104.8	101.7
87.5°	99.7	102.1	110.0	114.8	115.3	109.0	109.1	107.7	105.0	97.8	95.2
90°	93.2	95.0	103.7	108.7	105.6	100.5	98.4	95.4	95.6	89.1	87.1
92.5°	88.9	90.8	97.0	100.0	99.5	91.1	89.7	89.4	87.9	82.4	81.1
95°	83.2	84.4	89.7	93.5	91.1	82.4	80.8	79.7	79.9	77.8	78.1
97.5°	81.7	82.6	86.4	85.8	81.7	74.1	73.2	72.8	72.5	71.2	71.0
100°	78.5	78.5	79.7	77.6	72.8	67.2	65.7	65.9	66.1	64.8	64.3
102.5°	73.2	73.4	73.9	72.0	67.5	61.7	60.1	61.4	61.9	61.4	61.2
105°	69.3	69.1	69.3	67.2	62.1	57.0	55.3	56.6	57.8	58.0	57.5
107.5°	63.5	63.3	63.3	61.2	57.2	53.1	51.7	50.9	50.9	50.9	50.9
110°	55.1	55.3	55.3	54.3	52.5	49.9	48.1	46.6	47.2	46.8	47.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	51.3	51.3	50.8	49.9	48.1	45.6	43.5	42.5	42.0	41.9	42.0
115°	47.2	47.3	46.0	45.5	43.5	42.0	39.9	39.2	39.2	39.9	40.3
117.5°	43.5	43.5	42.5	41.3	39.6	38.4	37.4	37.0	37.0	37.9	37.9
120°	39.3	39.3	38.4	37.0	36.2	34.6	34.8	34.6	35.3	36.6	36.7
122.5°	34.8	34.8	33.9	32.6	33.1	31.9	31.4	30.5	31.9	33.3	33.5
125°	30.9	30.7	29.7	28.2	30.3	30.3	28.9	25.8	27.8	28.9	29.3
127.5°	28.2	27.9	26.8	25.3	27.8	29.3	26.6	23.4	24.4	25.6	26.1
130°	26.8	26.6	25.3	23.6	24.4	27.8	24.0	22.5	23.6	24.9	24.9
132.5°	25.8	25.6	24.7	22.9	21.6	25.3	21.5	22.0	23.6	24.9	24.9
135°	24.0	24.0	22.6	20.3	17.3	18.5	17.3	19.9	21.6	22.6	22.9
137.5°	20.5	20.5	19.6	17.3	14.1	13.2	13.7	16.9	19.0	20.0	20.0
140°	16.2	15.9	15.0	13.0	9.3	6.3	9.0	12.8	15.0	15.9	15.9
142.5°	11.4	11.0	9.9	7.9	4.9	2.2	4.9	7.7	9.9	10.9	11.0
145°	7.2	7.2	6.3	4.9	2.4	0.7	1.9	4.6	6.1	6.9	6.9
147.5°	4.6	4.6	3.9	2.6	0.7	0.4	0.7	2.2	3.7	4.3	4.6
150°	2.6	2.6	1.9	1.0	0.4	0.2	0.4	0.7	1.4	2.2	2.2
152.5°	1.0	0.7	0.4	0.4	0.2	0.2	0.2	0.4	0.4	0.7	0.7
155°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
157.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
160°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
162.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.2	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)