

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: P239831

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239831
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-AF24-30-D-U-5WQ-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA 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: 2921 lumens
Efficiency: N/A
Efficacy: 94.2 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): 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

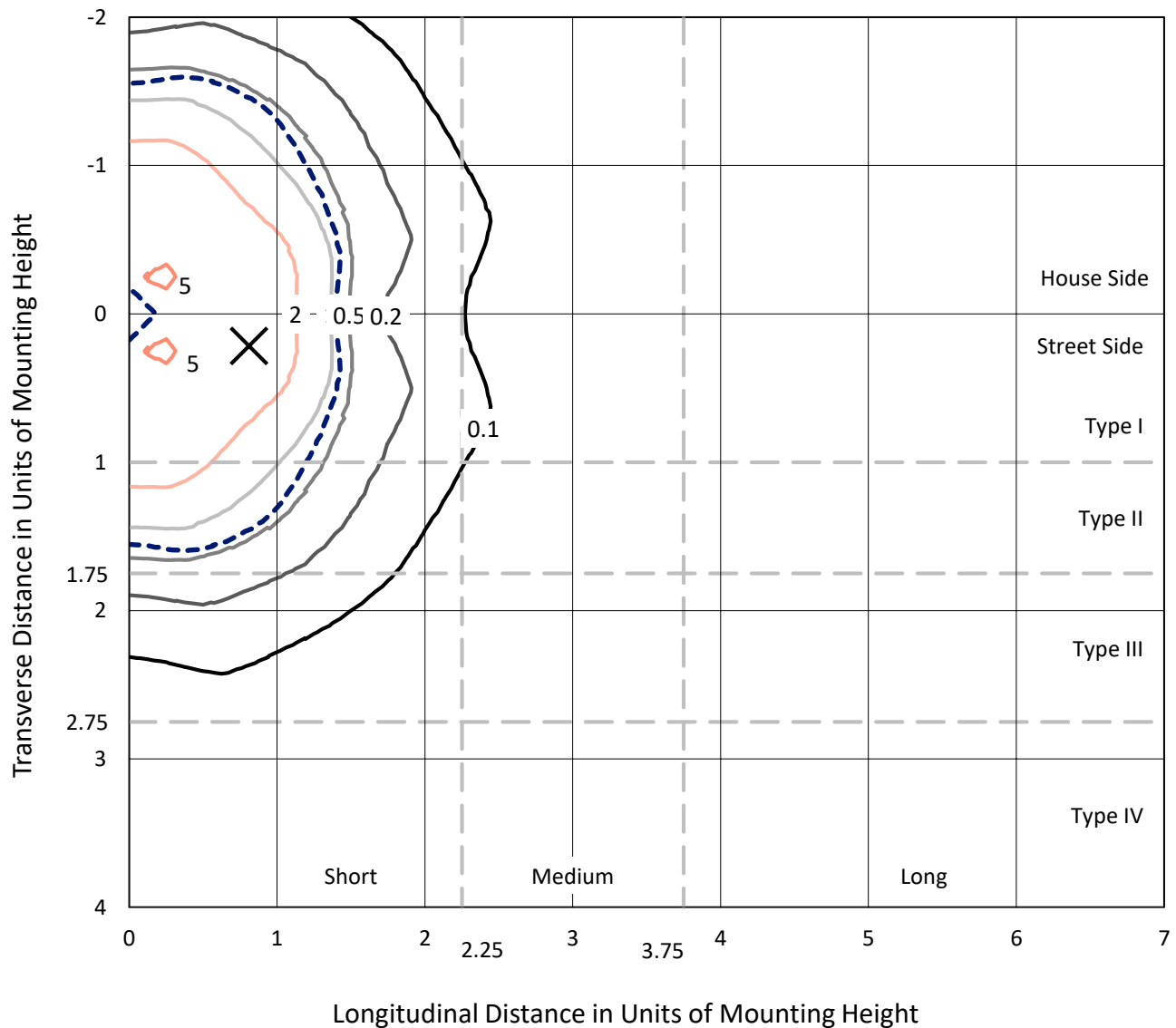


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

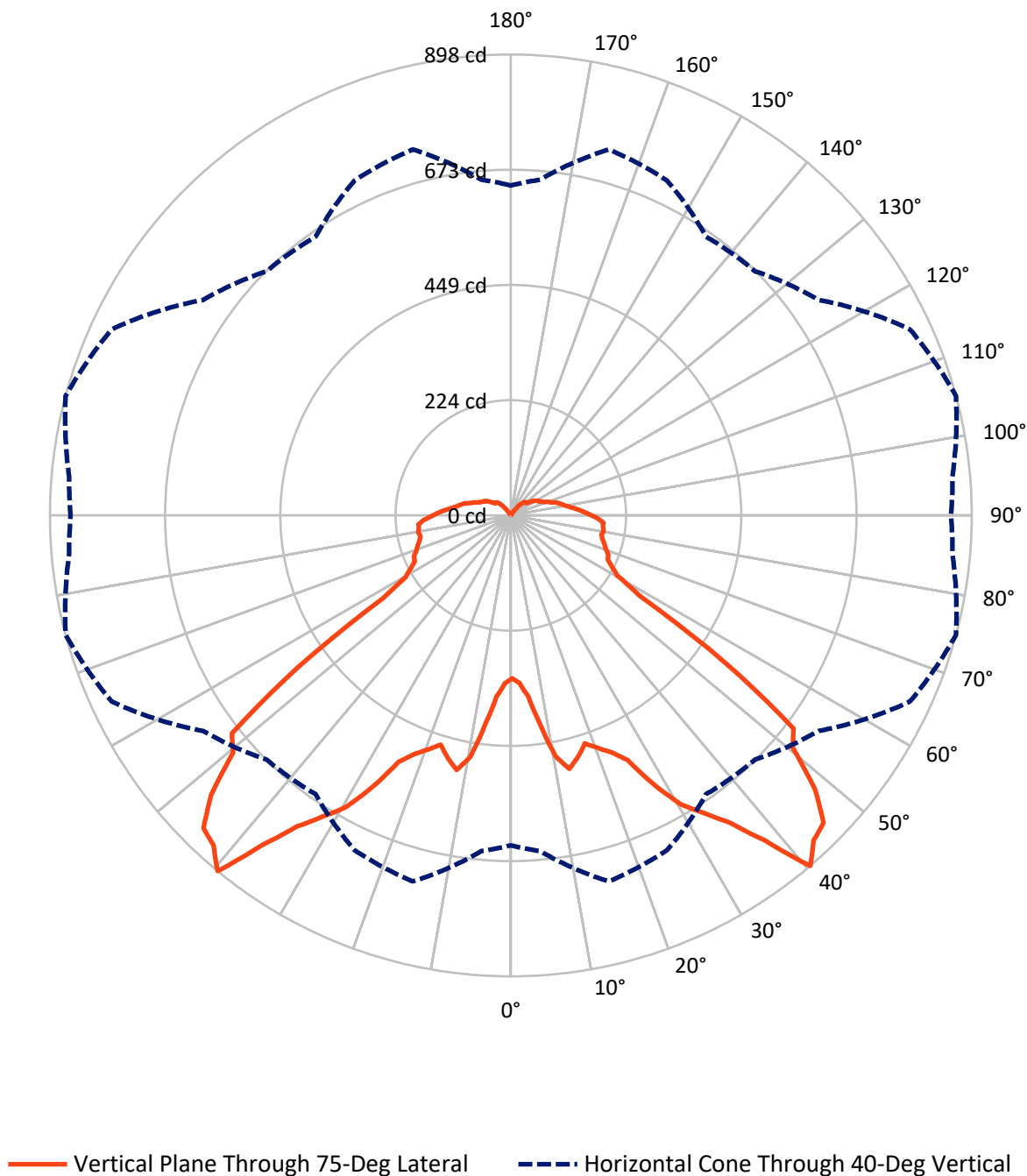


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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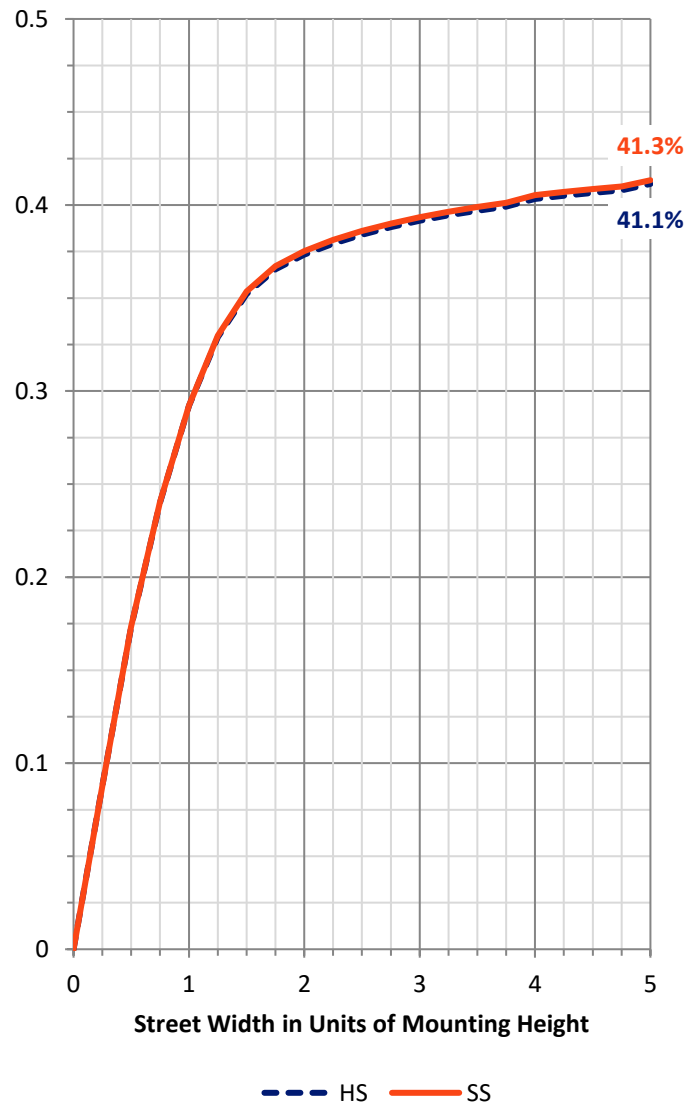
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.6	197.9	1460.5
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	1262.6	197.9	1460.5
	% Fixture	43.2	6.8	50.0
Total	Lumens	2525.2	395.8	2921.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	1.3
10°-20°	152.1	5.2
20°-30°	271.8	9.3
30°-40°	430.2	14.7
40°-50°	577.3	19.8
50°-60°	459.5	15.7
60°-70°	210.9	7.2
70°-80°	192.2	6.6
80°-90°	193.7	6.6
90°-100°	148.9	5.1
100°-110°	104.0	3.6
110°-120°	68.7	2.4
120°-130°	42.9	1.5
130°-140°	25.1	0.9
140°-150°	5.7	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2525.2	86.5
0°-180°	2921.0	100.0

Coefficient of Utilization



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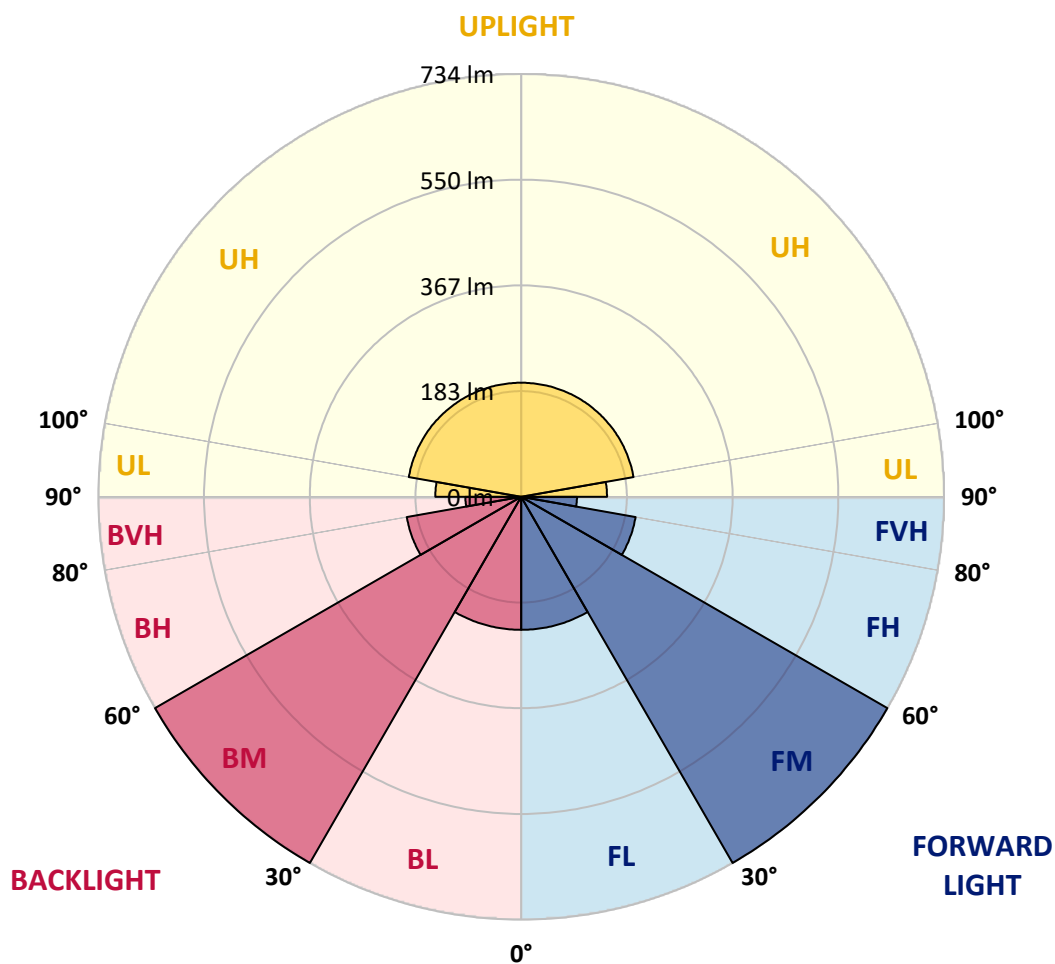
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.7	7.9			
FM	(30°-60°)	733.5	25.1			
FH	(60°-80°)	201.6	6.9			G0/660
FVH	(80°-90°)	96.8	3.3			G1/100
BL	(0°-30°)	230.7	7.9	B1/500		
BM	(30°-60°)	733.5	25.1	B1/1000		
BH	(60°-80°)	201.6	6.9	B1/500		G0/660
BVH	(80°-90°)	96.8	3.3			G1/100
UL	(90°-100°)	148.9	5.1		U3/500	
UH	(100°-180°)	197.9	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°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	326.0	326.0	326.0	325.2	326.0	326.7	327.5	327.5	327.1	326.0	325.2
5°	348.9	348.9	348.5	349.3	349.3	347.7	348.5	351.2	354.0	352.0	351.2
7.5°	404.5	403.4	400.6	398.3	395.6	395.6	401.4	404.9	411.1	411.9	410.0
10°	460.5	462.1	463.6	463.6	470.3	477.6	482.7	481.1	476.5	473.0	470.6
12.5°	476.9	478.0	491.7	525.9	551.2	571.8	554.3	527.8	506.8	493.2	491.7
15°	489.3	492.4	509.5	552.3	615.7	632.8	596.7	529.4	488.5	469.1	464.8
17.5°	501.8	505.3	534.0	595.9	646.1	641.8	598.2	526.3	466.8	441.1	438.0
20°	490.9	494.8	535.2	618.1	654.6	634.0	618.8	551.2	483.5	453.9	450.4
22.5°	495.2	499.0	539.9	620.4	643.0	644.1	620.8	580.3	501.0	467.1	461.7
25°	502.9	506.0	556.6	637.9	638.3	635.2	623.5	601.3	527.4	495.2	490.5
27.5°	502.9	505.7	562.4	630.5	634.8	627.8	642.6	650.7	593.9	565.2	566.3
30°	525.5	527.0	585.8	629.7	620.0	625.5	667.1	692.0	653.1	606.8	606.4
32.5°	569.4	576.8	638.7	656.6	618.5	623.5	673.3	716.9	691.6	636.0	629.7
35°	625.8	627.8	684.6	679.9	629.7	627.0	688.1	756.1	734.8	679.9	678.0
37.5°	644.1	646.8	714.5	702.1	643.3	645.7	712.6	804.0	803.2	759.3	745.3
40°	642.6	656.2	737.9	719.6	662.8	672.5	731.6	857.7	897.7	863.5	857.3
42.5°	758.5	765.5	813.3	747.2	680.7	680.7	739.4	847.2	865.1	799.7	786.9
45°	770.5	770.1	822.7	769.8	685.4	669.4	711.8	807.1	853.8	810.6	791.5
47.5°	745.6	755.4	820.7	756.9	676.8	637.5	664.4	761.2	797.4	730.9	715.7
50°	718.8	726.2	776.0	698.2	634.4	606.4	626.6	696.6	711.0	630.9	619.2
52.5°	645.3	646.1	705.2	643.7	597.4	568.7	585.0	650.0	689.2	612.6	604.5
55°	546.9	557.4	632.5	594.3	553.9	529.0	532.1	543.0	508.4	393.6	366.8
57.5°	418.1	431.8	519.3	521.2	490.1	450.4	406.9	344.6	296.8	190.6	183.2
60°	284.7	296.4	362.5	378.9	391.3	345.8	281.6	245.8	238.4	165.3	159.9
62.5°	176.2	185.9	247.8	253.6	280.8	252.4	223.3	212.4	220.9	157.9	154.0
65°	163.0	169.6	215.1	206.5	213.2	211.6	198.8	196.8	207.3	154.0	151.3
67.5°	157.5	163.0	199.1	192.9	195.6	198.0	189.0	190.6	205.0	157.1	154.0
70°	154.8	160.6	194.1	189.8	192.5	194.9	189.4	187.1	196.4	158.3	154.0
72.5°	152.9	159.1	186.3	183.6	191.0	197.2	191.8	186.7	190.6	159.1	154.8
75°	149.4	155.6	179.3	180.9	192.1	199.5	192.5	184.8	184.4	157.5	152.5
77.5°	148.6	155.6	171.9	181.6	192.5	202.3	196.8	185.5	180.5	158.3	152.1
80°	147.4	155.2	175.4	187.9	195.6	200.7	198.4	190.6	183.2	164.1	157.5
82.5°	154.0	161.0	178.5	192.5	194.9	194.1	194.1	189.0	180.9	164.5	158.3
85°	162.2	167.6	185.9	194.1	192.1	187.1	184.8	184.4	180.5	168.8	163.8
87.5°	160.6	164.5	177.0	184.8	185.5	175.4	175.8	173.5	169.2	157.5	153.3
90°	150.1	152.9	166.9	175.0	170.0	161.8	158.3	153.6	154.0	143.5	140.4
92.5°	143.1	146.3	156.4	161.0	160.3	146.6	144.3	143.9	141.6	132.6	130.7
95°	133.8	135.7	144.3	150.5	146.6	132.6	130.3	128.4	128.7	125.2	125.6
97.5°	131.5	133.0	139.2	138.1	131.5	119.4	117.9	117.1	116.7	114.7	114.4
100°	126.4	126.4	128.4	124.9	117.1	108.1	105.8	106.2	106.6	104.2	103.5
102.5°	117.9	118.2	119.0	115.9	108.5	99.2	96.9	98.8	99.6	98.8	98.4
105°	111.6	111.2	111.6	108.1	100.0	91.8	89.1	91.0	93.0	93.4	92.6
107.5°	102.3	101.9	101.9	98.4	92.2	85.6	83.2	82.1	82.1	82.1	82.1
110°	88.7	89.1	89.1	87.5	84.4	80.5	77.4	75.1	75.8	75.5	76.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.5	82.5	81.7	80.5	77.4	73.5	70.0	68.5	67.7	67.3	67.7
115°	75.8	76.2	73.9	73.1	70.0	67.7	64.2	63.0	63.0	64.2	65.0
117.5°	70.0	70.0	68.5	66.5	63.8	61.8	60.3	59.5	59.5	61.1	61.1
120°	63.4	63.4	61.8	59.5	58.3	55.6	56.0	55.6	56.8	58.7	59.1
122.5°	56.0	56.0	54.5	52.5	53.3	51.3	50.6	49.0	51.3	53.7	54.1
125°	49.8	49.4	47.8	45.5	48.6	48.6	46.7	41.6	44.7	46.7	47.1
127.5°	45.5	45.1	43.2	40.8	44.7	47.1	42.8	37.7	39.3	41.2	42.0
130°	43.2	42.8	40.8	38.1	39.3	44.7	38.5	36.2	38.1	40.1	40.1
132.5°	41.6	41.2	39.7	37.0	35.0	40.8	34.6	35.4	38.1	40.1	40.1
135°	38.5	38.5	36.6	32.7	28.0	30.0	28.0	31.9	35.0	36.6	37.0
137.5°	33.1	33.1	31.5	28.0	22.6	21.4	22.2	27.2	30.7	32.3	32.3
140°	26.1	25.7	24.1	21.0	14.8	10.1	14.4	20.6	24.1	25.7	25.7
142.5°	18.3	17.9	15.9	12.8	7.8	3.5	7.8	12.4	15.9	17.5	17.9
145°	11.7	11.7	10.1	7.8	3.9	1.2	3.1	7.4	9.7	11.3	11.3
147.5°	7.4	7.4	6.2	4.3	1.2	0.8	1.2	3.5	5.8	7.0	7.4
150°	4.3	4.3	3.1	1.6	0.8	0.4	0.8	1.2	2.3	3.5	3.5
152.5°	1.6	1.2	0.8	0.8	0.4	0.4	0.4	0.8	0.8	1.2	1.2
155°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
162.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	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)