

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: P240094

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240094
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-AF24-50-D-U-5WQ-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA 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: 4832.5 lumens
Efficiency: N/A
Efficacy: 89.5 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: B2 - U3 - G3

Input Watts (W): 54
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



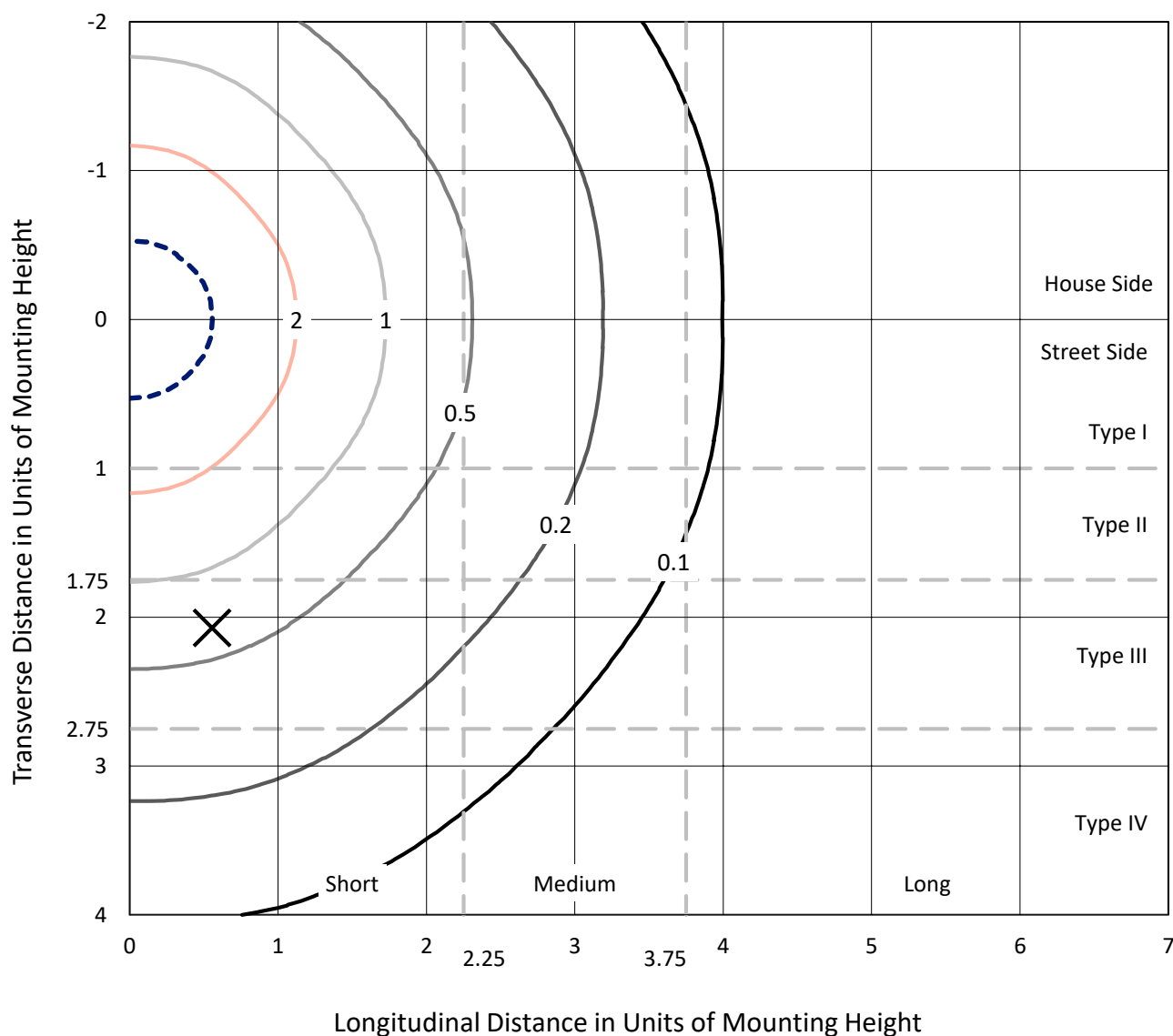
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

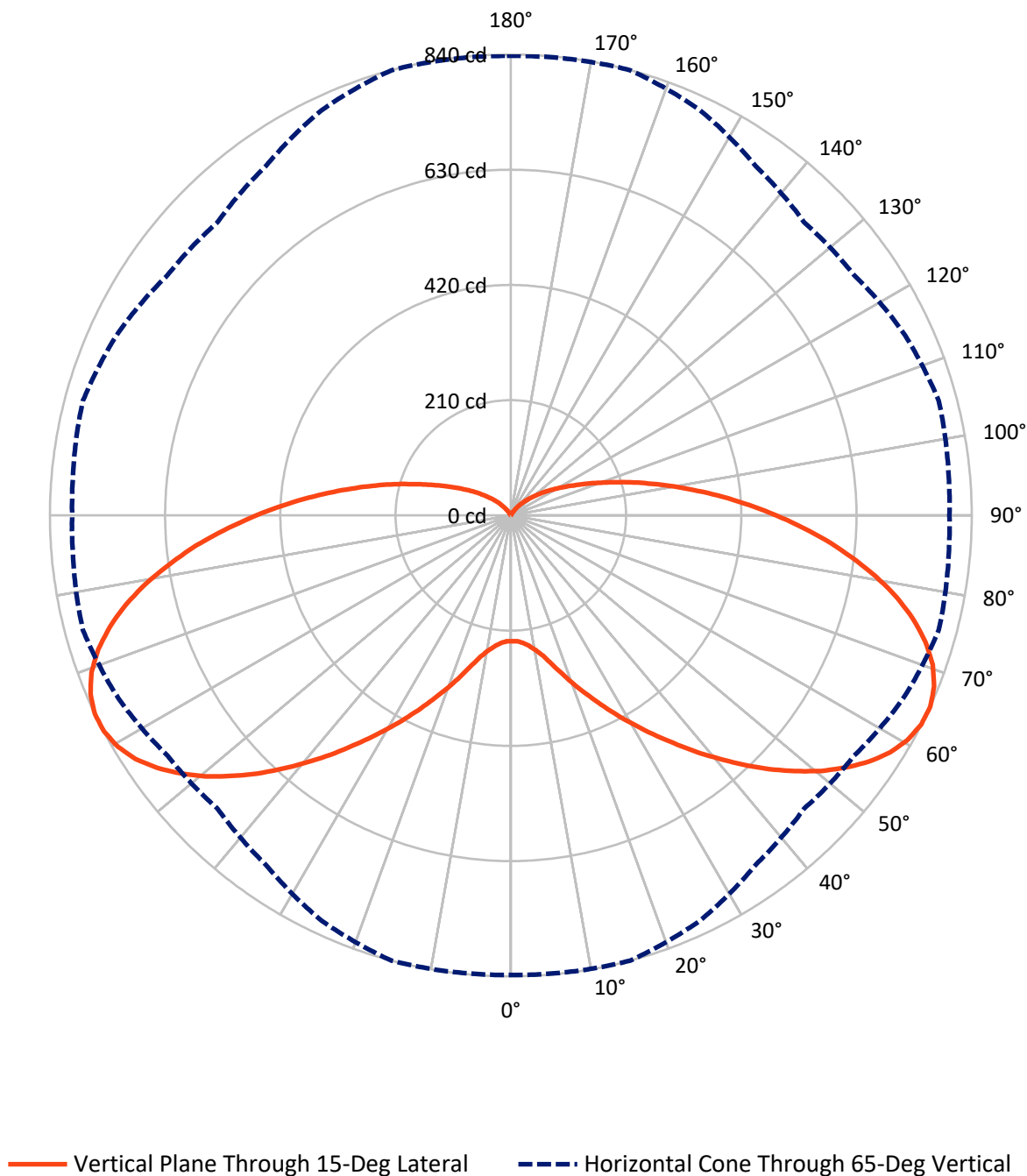


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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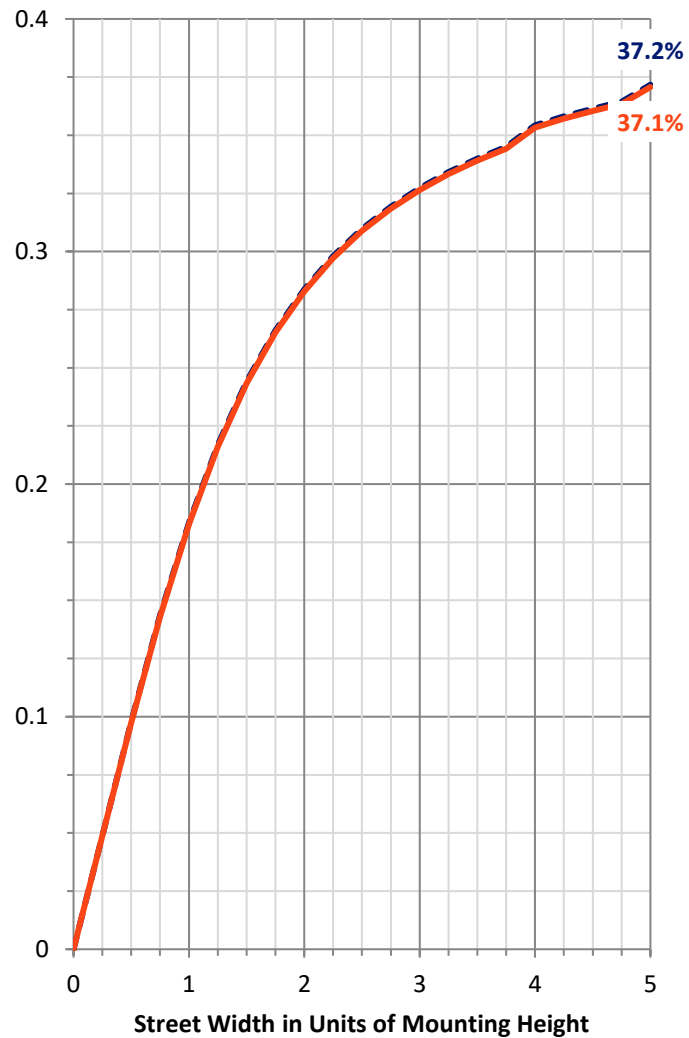
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1966.2	450.0	2416.2
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	1966.2	450.0	2416.2
	% Fixture	40.7	9.3	50.0
Total	Lumens	3932.5	900.0	4832.5
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	0.5
10°-20°	80.8	1.7
20°-30°	176.8	3.7
30°-40°	318.5	6.6
40°-50°	498.2	10.3
50°-60°	678.5	14.0
60°-70°	787.4	16.3
70°-80°	760.7	15.7
80°-90°	608.8	12.6
90°-100°	414.7	8.6
100°-110°	250.2	5.2
110°-120°	136.5	2.8
120°-130°	66.2	1.4
130°-140°	25.8	0.5
140°-150°	6.1	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3932.5	81.4
0°-180°	4832.5	100.0

Coefficient of Utilization



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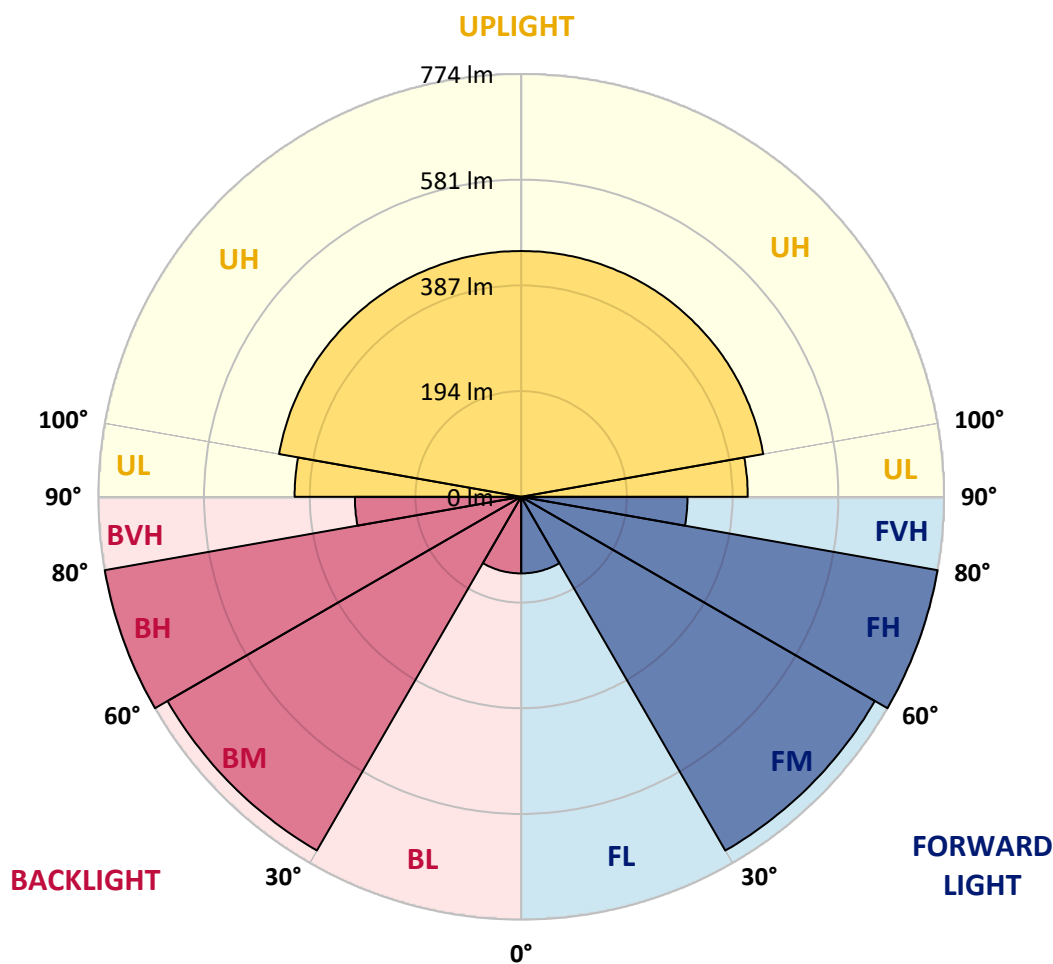
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.2	2.9			
FM	(30°-60°)	747.6	15.5			
FH	(60°-80°)	774.1	16.0			G1/1800
FVH	(80°-90°)	304.4	6.3			G3/500
BL	(0°-30°)	140.2	2.9	B1/500		
BM	(30°-60°)	747.6	15.5	B1/1000		
BH	(60°-80°)	774.1	16.0	B2/1000		G1/1800
BVH	(80°-90°)	304.4	6.3			G3/500
UL	(90°-100°)	414.7	8.6		U3/500	
UH	(100°-180°)	450.0	9.3		U3/500	

BUG Rating: B2-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2
2.5°	230.4	230.4	229.8	229.8	229.8	229.8	229.8	230.4	229.8	230.4	230.4
5°	233.5	234.1	233.5	233.5	234.1	233.5	233.5	234.1	233.5	233.5	233.5
7.5°	240.7	240.7	240.2	240.2	240.2	239.5	239.5	240.2	239.5	239.5	239.5
10°	250.4	250.4	249.7	249.7	249.2	248.6	248.6	248.6	249.2	249.2	249.2
12.5°	263.1	263.8	262.6	261.9	261.3	260.7	260.7	260.7	260.7	261.3	260.7
15°	282.6	282.6	281.4	278.9	277.1	276.5	275.3	276.5	277.7	278.3	279.4
17.5°	306.2	305.0	303.7	301.3	297.7	294.0	295.9	297.7	299.5	300.1	300.1
20°	330.4	330.4	328.7	325.0	322.0	318.9	319.6	320.7	322.0	323.2	322.6
22.5°	355.3	356.5	354.1	351.7	349.2	348.6	345.6	345.6	346.3	347.5	347.5
25°	385.0	383.8	382.0	379.5	378.9	378.9	374.8	372.2	372.9	373.4	373.4
27.5°	415.3	414.1	411.7	409.2	409.8	408.6	405.7	401.4	399.6	401.4	400.2
30°	445.7	445.0	442.6	440.8	442.1	440.8	437.1	430.5	429.3	429.9	430.5
32.5°	477.8	478.4	475.4	474.7	475.4	472.3	469.3	464.5	460.2	462.0	462.0
35°	513.5	513.5	509.3	509.9	508.0	505.1	501.4	497.7	493.6	495.4	494.2
37.5°	549.9	549.3	546.3	545.8	542.0	536.0	534.2	532.3	527.5	528.7	529.4
40°	588.8	586.9	582.7	582.1	574.8	568.1	566.9	566.9	561.5	564.6	565.1
42.5°	626.4	625.1	621.4	618.4	607.6	599.7	597.8	602.1	598.4	600.3	600.3
45°	664.0	660.9	659.7	654.3	639.7	629.4	630.0	635.5	636.0	636.0	634.8
47.5°	699.7	699.1	696.6	686.3	670.0	658.5	659.7	668.2	671.2	670.7	671.2
50°	734.9	733.0	732.5	719.2	697.3	684.0	687.0	697.8	704.5	702.7	703.3
52.5°	768.2	765.2	763.9	748.2	722.8	707.6	710.6	726.3	734.2	733.6	733.6
55°	794.4	793.1	792.4	773.1	743.9	727.5	731.8	749.4	761.5	759.2	758.5
57.5°	816.1	814.8	815.5	793.1	761.0	742.2	747.6	769.4	783.4	779.8	779.8
60°	831.9	830.7	831.3	807.7	773.1	752.5	759.2	782.2	798.5	794.4	793.7
62.5°	839.1	838.6	839.7	814.8	778.6	757.2	764.6	789.4	807.0	801.5	800.4
65°	837.9	838.6	840.4	815.5	777.9	756.1	763.9	789.4	807.7	801.5	799.8
67.5°	828.3	830.1	832.4	808.2	770.6	749.4	756.7	782.2	800.4	793.7	790.7
70°	810.0	811.9	816.1	793.1	757.2	736.1	742.8	767.6	783.9	776.1	772.5
72.5°	781.5	785.8	790.7	770.6	736.7	716.6	723.4	746.4	761.5	751.2	747.0
75°	745.8	751.8	758.5	741.6	709.9	691.8	698.5	719.2	729.5	719.7	711.9
77.5°	705.9	711.9	719.7	705.9	677.9	662.1	666.4	683.3	692.3	680.3	674.2
80°	657.3	664.0	674.9	665.7	643.3	627.5	632.4	644.5	648.8	636.0	628.1
82.5°	609.3	615.4	625.7	622.1	603.3	590.5	592.9	602.1	603.8	588.8	582.1
85°	557.9	563.2	576.7	576.1	562.0	551.8	553.6	559.1	554.8	538.4	531.1
87.5°	506.3	509.3	524.5	526.8	519.6	512.3	511.8	511.8	505.7	489.3	483.8
90°	455.9	459.0	473.5	481.4	477.1	471.1	470.0	467.5	455.4	440.2	436.6
92.5°	407.4	408.6	425.0	436.0	434.8	430.5	428.7	423.8	409.8	392.3	389.8
95°	361.9	363.2	378.9	391.0	394.1	392.9	389.3	382.6	364.4	346.8	346.3
97.5°	320.1	319.6	334.7	349.8	355.9	355.9	350.5	341.3	323.7	306.2	305.6
100°	282.0	280.7	294.7	312.9	319.6	320.7	315.9	303.7	283.7	269.9	270.4
102.5°	247.4	246.2	258.3	275.9	285.6	288.0	282.6	268.0	249.2	236.4	237.1
105°	217.1	215.9	226.1	243.1	254.0	256.4	250.4	236.4	215.9	206.7	207.9
107.5°	188.6	187.9	195.2	212.2	224.3	228.1	221.9	206.7	187.4	180.8	181.3
110°	166.2	165.5	169.2	184.9	198.3	201.9	194.6	178.8	162.5	158.2	158.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	146.1	144.3	146.7	160.7	172.8	177.0	169.8	153.4	140.6	138.9	139.5
115°	127.3	127.3	126.7	137.6	150.3	154.0	146.7	132.2	121.9	121.3	121.3
117.5°	112.2	111.0	110.4	117.0	128.5	132.8	126.0	112.7	106.1	106.7	107.3
120°	97.6	97.6	95.8	98.9	109.2	112.2	106.7	96.3	92.3	93.4	94.0
122.5°	85.4	84.9	83.0	83.7	90.9	94.6	89.1	81.3	80.1	82.5	82.5
125°	74.0	73.3	71.6	70.4	74.0	77.0	73.3	68.5	69.2	71.6	72.1
127.5°	63.7	63.1	60.6	58.2	60.0	61.8	59.4	57.1	60.0	61.8	62.5
130°	54.5	54.0	51.6	47.8	47.3	48.5	46.7	47.3	51.0	54.0	54.0
132.5°	46.1	46.1	43.0	38.8	36.4	36.4	36.4	38.8	43.0	45.5	46.1
135°	38.2	38.2	35.7	30.9	26.7	26.1	26.7	30.9	35.7	37.5	38.2
137.5°	31.5	30.9	28.5	24.2	18.8	17.6	18.8	23.6	28.5	30.9	30.9
140°	24.9	24.2	21.9	18.1	13.3	10.9	13.3	17.6	21.9	24.2	24.2
142.5°	18.1	18.1	15.8	12.8	8.5	6.7	8.5	12.8	16.4	17.6	18.1
145°	12.8	12.8	10.9	7.8	4.8	3.6	4.8	8.5	10.9	12.8	12.8
147.5°	8.5	8.5	7.3	4.8	3.1	1.8	3.1	5.5	7.3	8.5	8.5
150°	4.8	4.8	4.3	3.1	1.2	0.6	1.2	3.1	4.3	4.8	4.8
152.5°	2.4	2.4	1.8	1.2	0.6	0.6	0.6	1.2	2.4	2.4	3.1
155°	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.6	1.2	1.2	1.2
157.5°	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)