

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: P240102

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240102
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-AF24-40-D-U-5WQ-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 3986.4 lumens
Efficiency: N/A
Efficacy: 99.7 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): 40
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



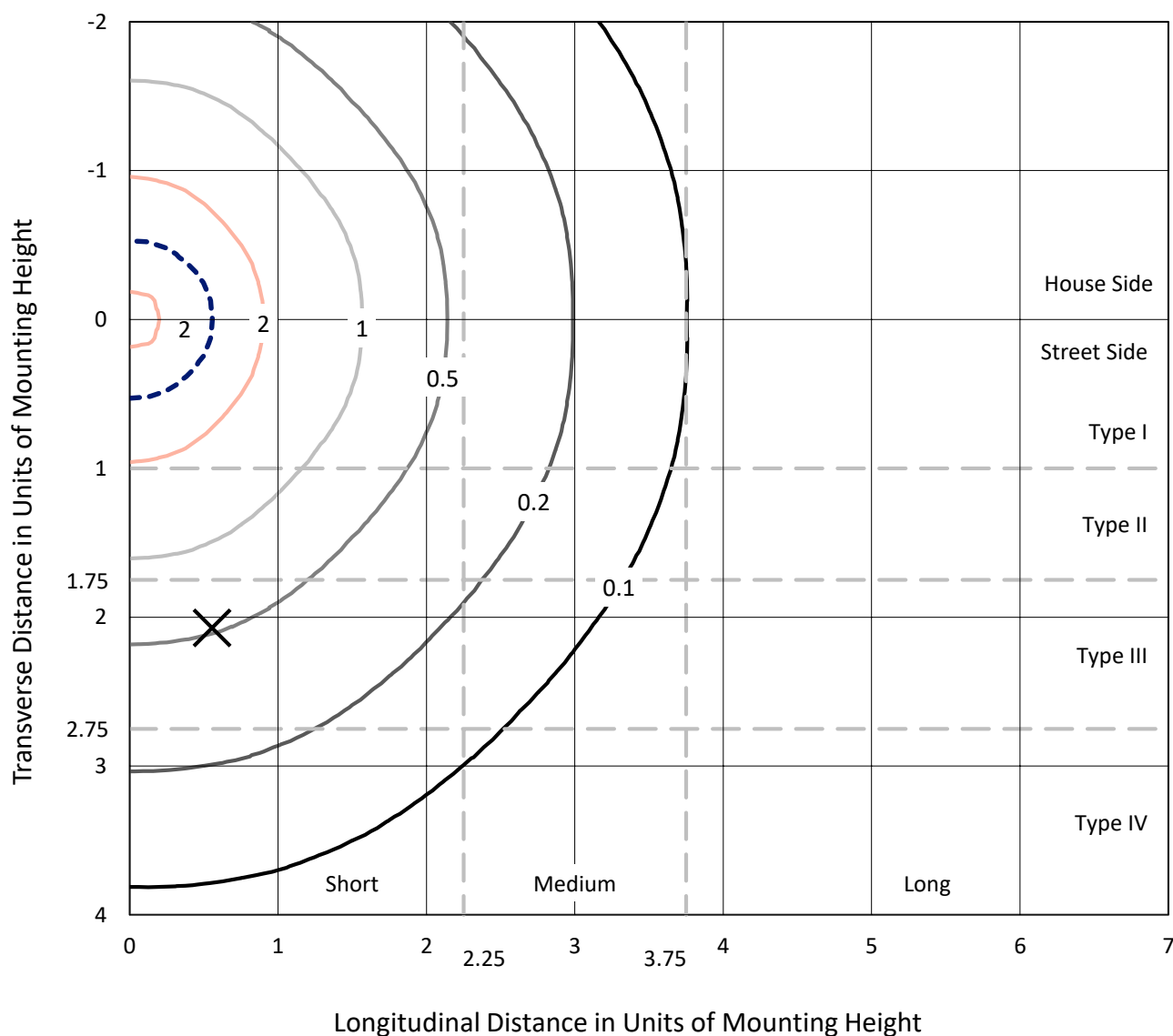
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

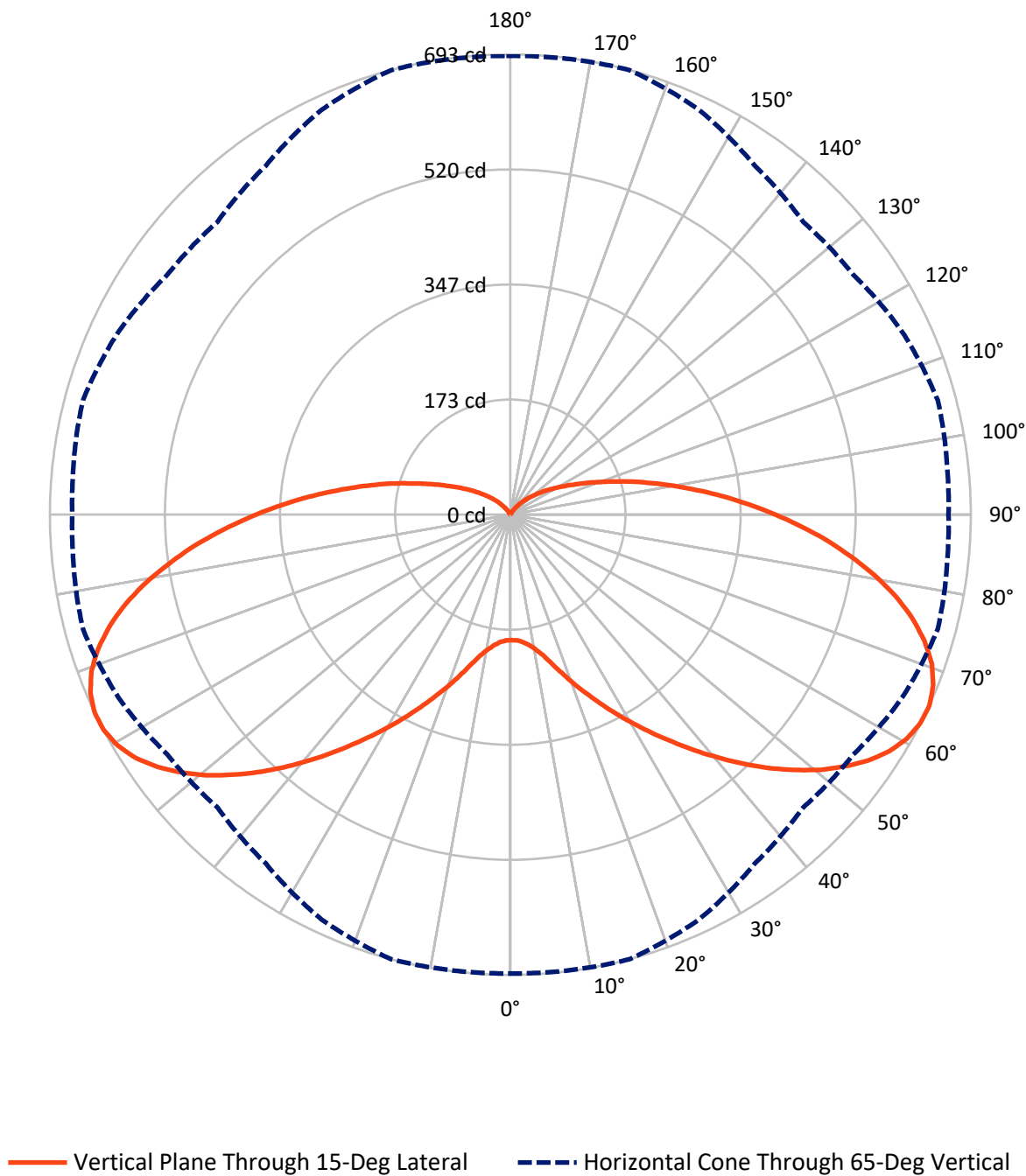


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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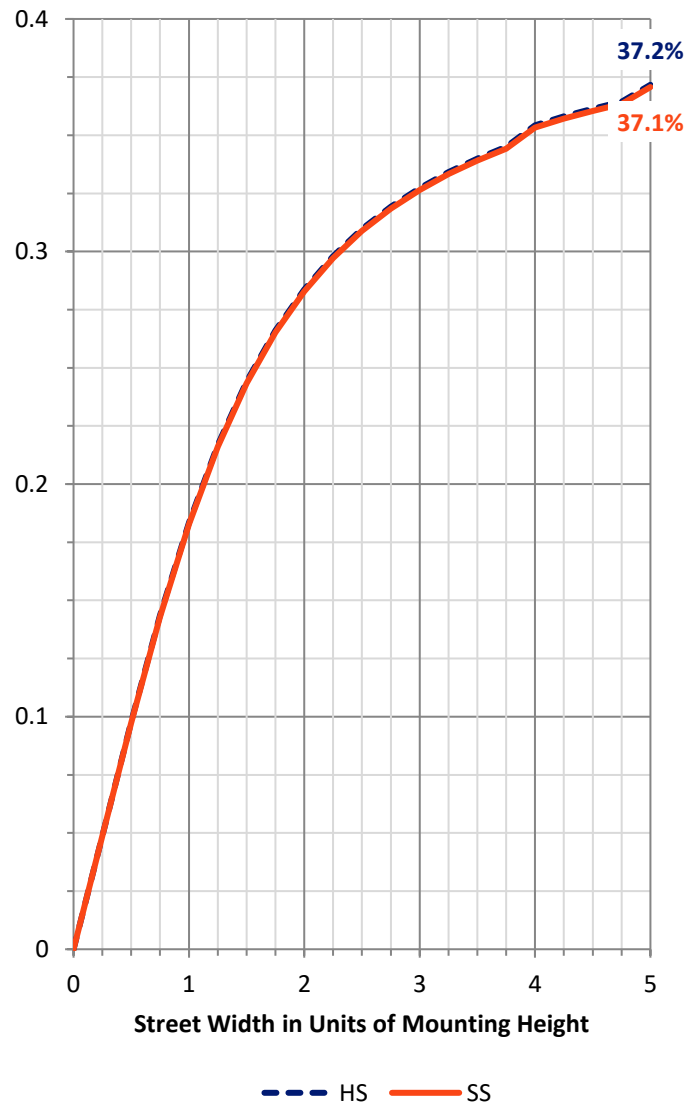
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1622.0	371.2	1993.2
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	1622.0	371.2	1993.2
	% Fixture	40.7	9.3	50.0
Total	Lumens	3244.0	742.5	3986.4
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	0.5
10°-20°	66.7	1.7
20°-30°	145.8	3.7
30°-40°	262.7	6.6
40°-50°	410.9	10.3
50°-60°	559.7	14.0
60°-70°	649.5	16.3
70°-80°	627.5	15.7
80°-90°	502.2	12.6
90°-100°	342.1	8.6
100°-110°	206.4	5.2
110°-120°	112.6	2.8
120°-130°	54.6	1.4
130°-140°	21.3	0.5
140°-150°	5.1	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3244.0	81.4
0°-180°	3986.4	100.0

Coefficient of Utilization



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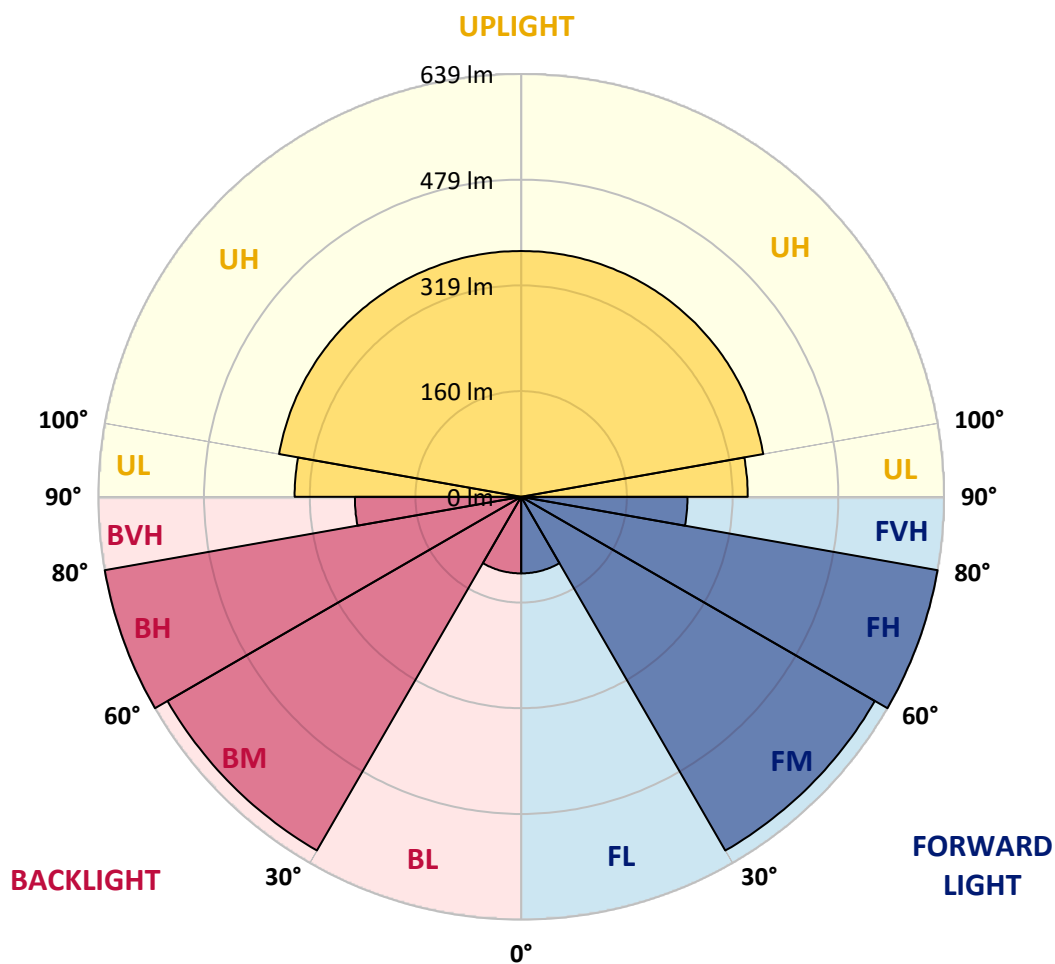
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.7	2.9			
FM	(30°-60°)	616.7	15.5			
FH	(60°-80°)	638.5	16.0			G0/660
FVH	(80°-90°)	251.1	6.3			G3/500
BL	(0°-30°)	115.7	2.9	B1/500		
BM	(30°-60°)	616.7	15.5	B1/1000		
BH	(60°-80°)	638.5	16.0	B2/1000		G0/660
BVH	(80°-90°)	251.1	6.3			G3/500
UL	(90°-100°)	342.1	8.6		U3/500	
UH	(100°-180°)	371.2	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°	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0	189.0
2.5°	190.1	190.1	189.6	189.6	189.6	189.6	189.6	190.1	189.6	190.1	190.1
5°	192.5	193.0	192.5	192.5	193.0	192.5	192.5	193.0	192.5	192.5	192.5
7.5°	198.6	198.6	198.0	198.0	198.0	197.5	197.5	198.0	197.5	197.5	197.5
10°	206.5	206.5	206.0	206.0	205.6	205.1	205.1	205.1	205.6	205.6	205.6
12.5°	217.1	217.6	216.6	216.0	215.5	215.0	215.0	215.0	215.0	215.5	215.0
15°	233.1	233.1	232.1	230.1	228.6	228.1	227.1	228.1	229.0	229.6	230.6
17.5°	252.6	251.5	250.6	248.6	245.6	242.5	244.1	245.6	247.0	247.6	247.6
20°	272.6	272.6	271.1	268.1	265.6	263.1	263.6	264.6	265.6	266.6	266.1
22.5°	293.1	294.1	292.1	290.1	288.1	287.6	285.1	285.1	285.6	286.6	286.6
25°	317.6	316.6	315.1	313.1	312.6	312.6	309.1	307.1	307.6	308.1	308.1
27.5°	342.6	341.7	339.6	337.6	338.1	337.2	334.6	331.1	329.6	331.1	330.1
30°	367.6	367.1	365.1	363.7	364.6	363.7	360.6	355.2	354.1	354.7	355.2
32.5°	394.1	394.7	392.1	391.6	392.1	389.6	387.1	383.1	379.6	381.2	381.2
35°	423.6	423.6	420.1	420.6	419.1	416.6	413.7	410.6	407.1	408.7	407.6
37.5°	453.7	453.2	450.6	450.2	447.1	442.1	440.7	439.2	435.2	436.2	436.7
40°	485.7	484.2	480.7	480.2	474.1	468.6	467.7	467.7	463.2	465.6	466.2
42.5°	516.7	515.7	512.7	510.1	501.1	494.7	493.2	496.6	493.7	495.2	495.2
45°	547.7	545.2	544.2	539.7	527.6	519.1	519.7	524.2	524.7	524.7	523.6
47.5°	577.1	576.7	574.7	566.2	552.7	543.2	544.2	551.2	553.7	553.2	553.7
50°	606.2	604.7	604.3	593.2	575.2	564.2	566.7	575.7	581.2	579.7	580.2
52.5°	633.7	631.3	630.2	617.2	596.2	583.7	586.2	599.2	605.7	605.2	605.2
55°	655.2	654.2	653.8	637.7	613.7	600.2	603.7	618.2	628.2	626.3	625.7
57.5°	673.2	672.2	672.7	654.2	627.7	612.2	616.7	634.7	646.2	643.2	643.2
60°	686.2	685.3	685.8	666.2	637.7	620.7	626.3	645.2	658.7	655.2	654.7
62.5°	692.2	691.7	692.7	672.2	642.2	624.7	630.8	651.2	665.7	661.2	660.2
65°	691.2	691.7	693.3	672.7	641.7	623.7	630.2	651.2	666.2	661.2	659.7
67.5°	683.2	684.8	686.7	666.8	635.8	618.2	624.2	645.2	660.2	654.7	652.2
70°	668.2	669.7	673.2	654.2	624.7	607.2	612.7	633.2	646.7	640.3	637.2
72.5°	644.8	648.2	652.2	635.8	607.7	591.2	596.7	615.7	628.2	619.7	616.2
75°	615.2	620.2	625.7	611.7	585.7	570.7	576.2	593.2	601.7	593.7	587.2
77.5°	582.2	587.2	593.7	582.2	559.1	546.2	549.7	563.6	571.2	561.2	556.2
80°	542.2	547.7	556.7	549.2	530.7	517.7	521.7	531.7	535.2	524.7	518.2
82.5°	502.7	507.7	516.2	513.2	497.7	487.1	489.2	496.6	498.2	485.7	480.2
85°	460.1	464.6	475.7	475.2	463.7	455.1	456.6	461.1	457.7	444.2	438.1
87.5°	417.7	420.1	432.6	434.7	428.6	422.7	422.2	422.2	417.2	403.7	399.2
90°	376.1	378.6	390.7	397.1	393.6	388.6	387.6	385.7	375.6	363.1	360.1
92.5°	336.1	337.2	350.7	359.7	358.6	355.2	353.6	349.6	338.1	323.7	321.6
95°	298.6	299.6	312.6	322.6	325.1	324.1	321.1	315.6	300.6	286.1	285.6
97.5°	264.1	263.6	276.1	288.6	293.6	293.6	289.1	281.6	267.1	252.6	252.1
100°	232.6	231.6	243.1	258.1	263.6	264.6	260.5	250.6	234.1	222.6	223.1
102.5°	204.1	203.1	213.1	227.6	235.6	237.6	233.1	221.1	205.6	195.1	195.6
105°	179.0	178.1	186.6	200.6	209.6	211.5	206.5	195.1	178.1	170.5	171.5
107.5°	155.6	155.1	161.0	175.0	185.1	188.0	183.1	170.5	154.6	149.0	149.6
110°	137.1	136.6	139.5	152.5	163.6	166.5	160.6	147.5	134.0	130.5	131.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	120.5	119.1	121.0	132.6	142.6	146.1	140.0	126.5	116.0	114.6	115.1
115°	105.1	105.1	104.5	113.5	124.1	127.1	121.0	109.0	100.6	100.0	100.0
117.5°	92.6	91.6	91.0	96.6	106.1	109.6	104.0	93.0	87.6	88.1	88.5
120°	80.5	80.5	79.1	81.5	90.0	92.6	88.1	79.5	76.0	77.0	77.5
122.5°	70.5	70.1	68.5	69.0	75.0	78.1	73.6	67.0	66.0	68.0	68.0
125°	61.1	60.6	59.0	58.0	61.1	63.5	60.6	56.6	57.0	59.0	59.5
127.5°	52.5	52.1	50.0	48.0	49.5	51.0	49.0	47.1	49.5	51.0	51.6
130°	45.0	44.5	42.6	39.5	39.0	40.0	38.5	39.0	42.0	44.5	44.5
132.5°	38.1	38.1	35.5	32.0	30.0	30.0	30.0	32.0	35.5	37.5	38.1
135°	31.5	31.5	29.5	25.5	22.0	21.5	22.0	25.5	29.5	31.0	31.5
137.5°	26.0	25.5	23.5	20.0	15.5	14.5	15.5	19.5	23.5	25.5	25.5
140°	20.5	20.0	18.0	15.0	11.0	9.0	11.0	14.5	18.0	20.0	20.0
142.5°	15.0	15.0	13.0	10.5	7.0	5.5	7.0	10.5	13.5	14.5	15.0
145°	10.5	10.5	9.0	6.5	4.0	3.0	4.0	7.0	9.0	10.5	10.5
147.5°	7.0	7.0	6.0	4.0	2.5	1.5	2.5	4.5	6.0	7.0	7.0
150°	4.0	4.0	3.5	2.5	1.0	0.5	1.0	2.5	3.5	4.0	4.0
152.5°	2.0	2.0	1.5	1.0	0.5	0.5	0.5	1.0	2.0	2.0	2.5
155°	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.5	1.0	1.0	1.0
157.5°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)