

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: P266395

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266395
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-AF24-60-D-U-5WQ-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 5045.7 lumens
Efficiency: N/A
Efficacy: 78.8 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 - U4 - G3

Input Watts (W): 64
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

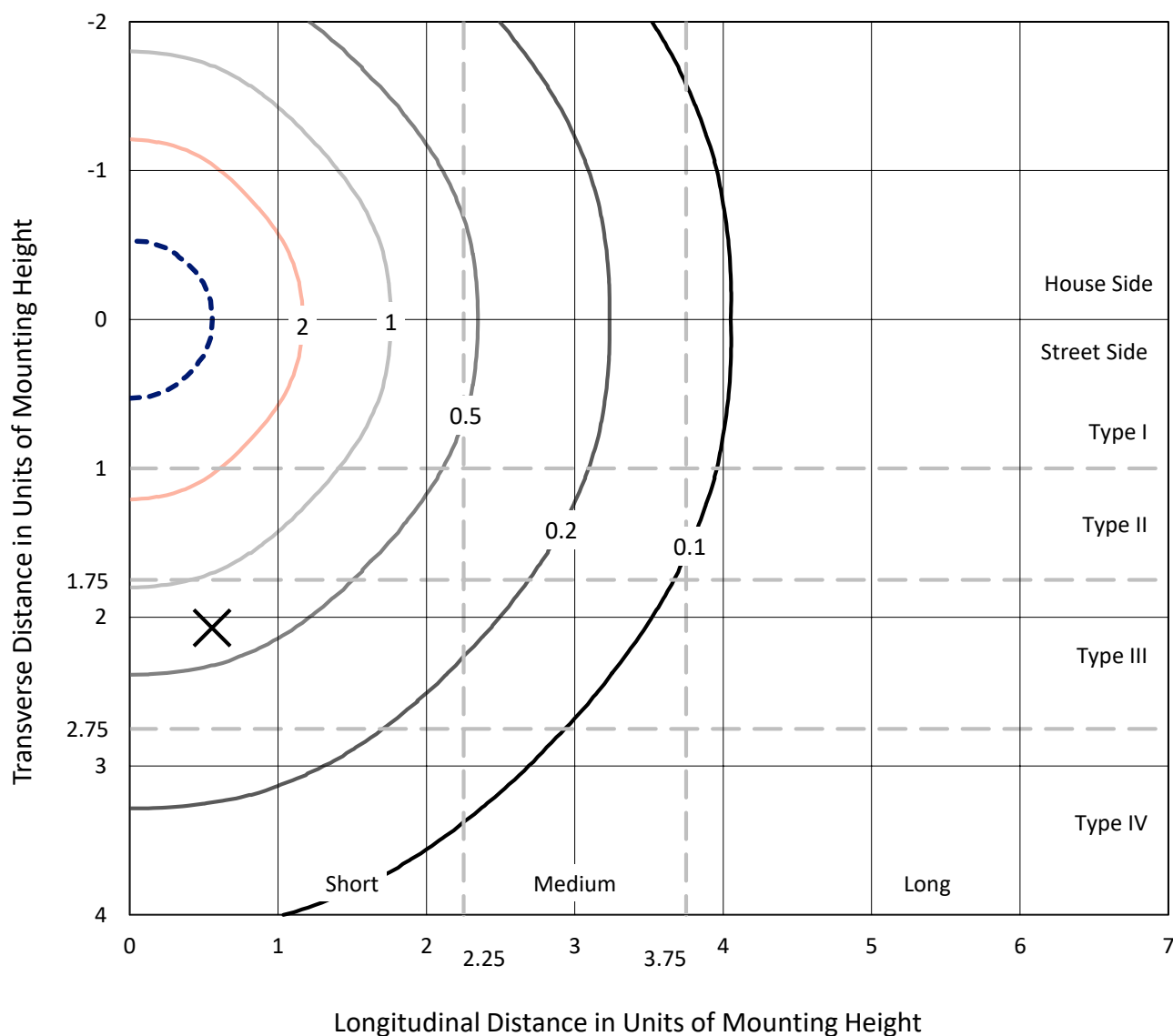


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

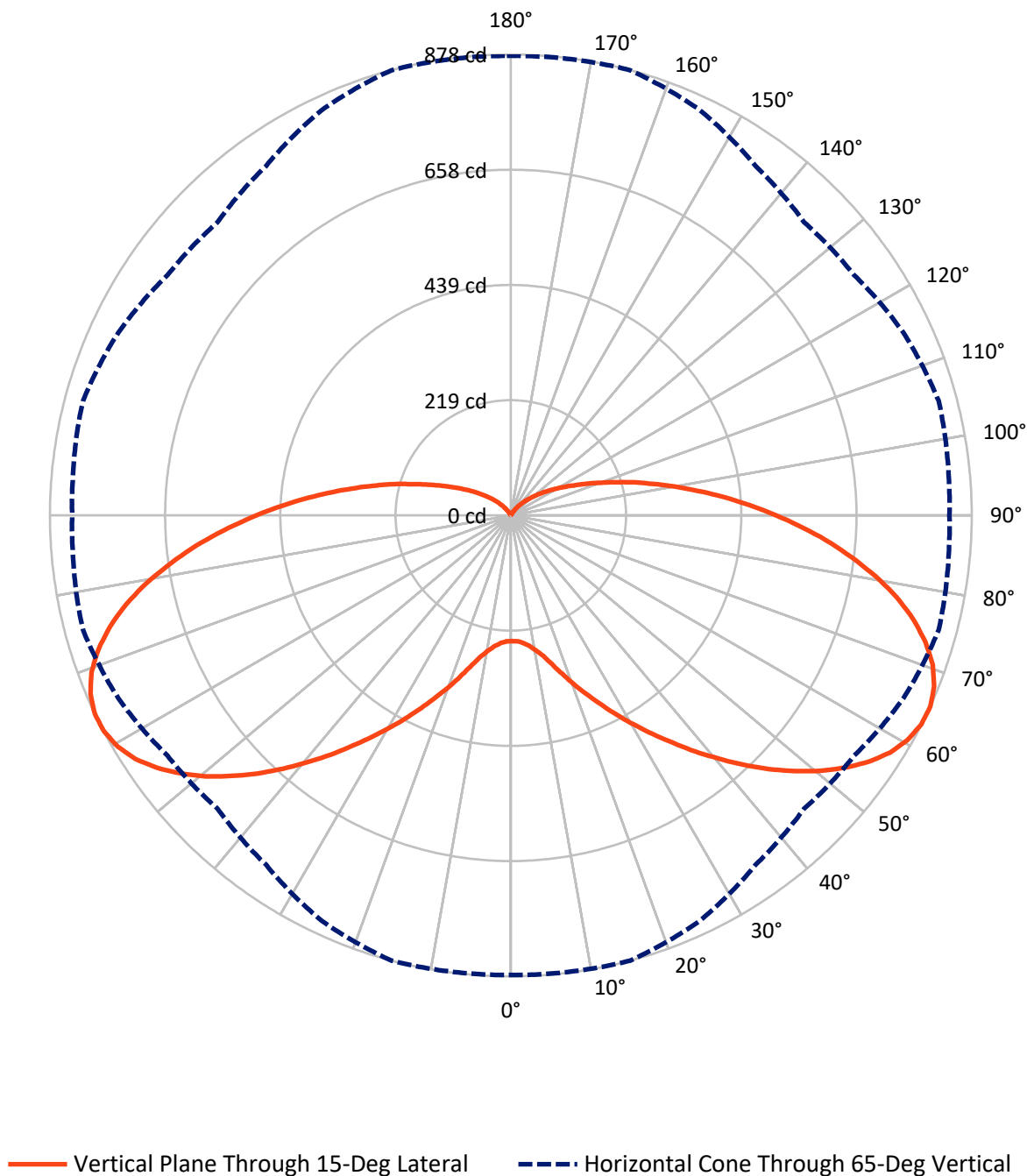


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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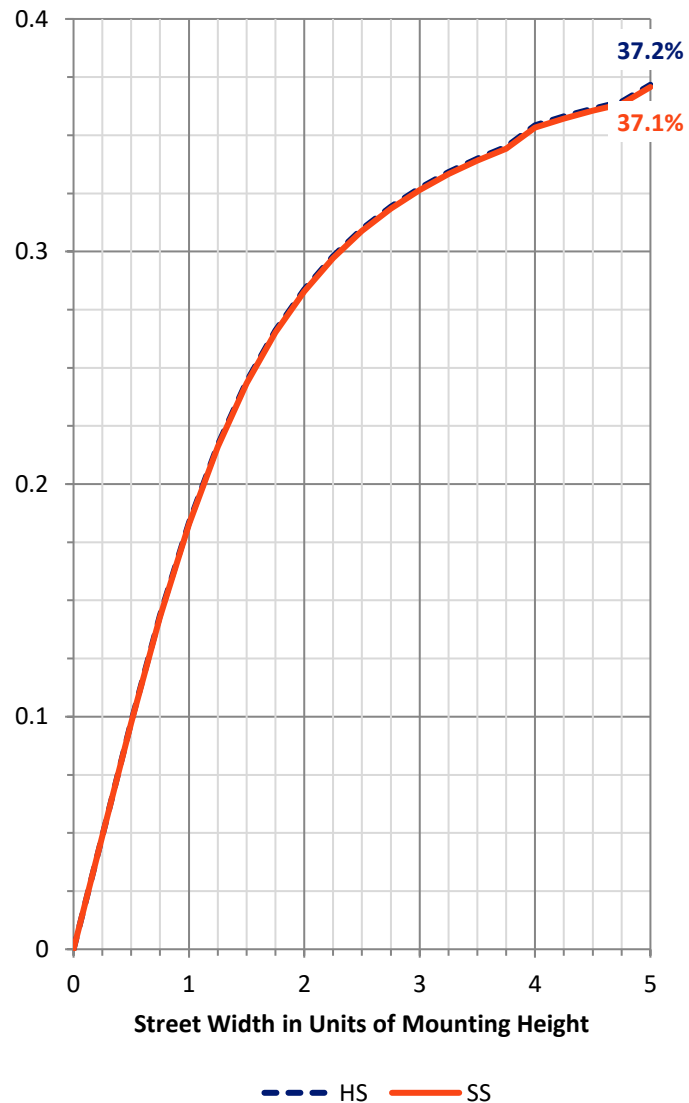
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2053.0	469.9	2522.9
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2053.0	469.9	2522.9
	% Fixture	40.7	9.3	50.0
Total	Lumens	4106.0	939.7	5045.7
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	0.5
10°-20°	84.4	1.7
20°-30°	184.6	3.7
30°-40°	332.5	6.6
40°-50°	520.1	10.3
50°-60°	708.5	14.0
60°-70°	822.2	16.3
70°-80°	794.3	15.7
80°-90°	635.7	12.6
90°-100°	433.0	8.6
100°-110°	261.3	5.2
110°-120°	142.5	2.8
120°-130°	69.1	1.4
130°-140°	26.9	0.5
140°-150°	6.4	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4106.0	81.4
0°-180°	5045.7	100.0

Coefficient of Utilization



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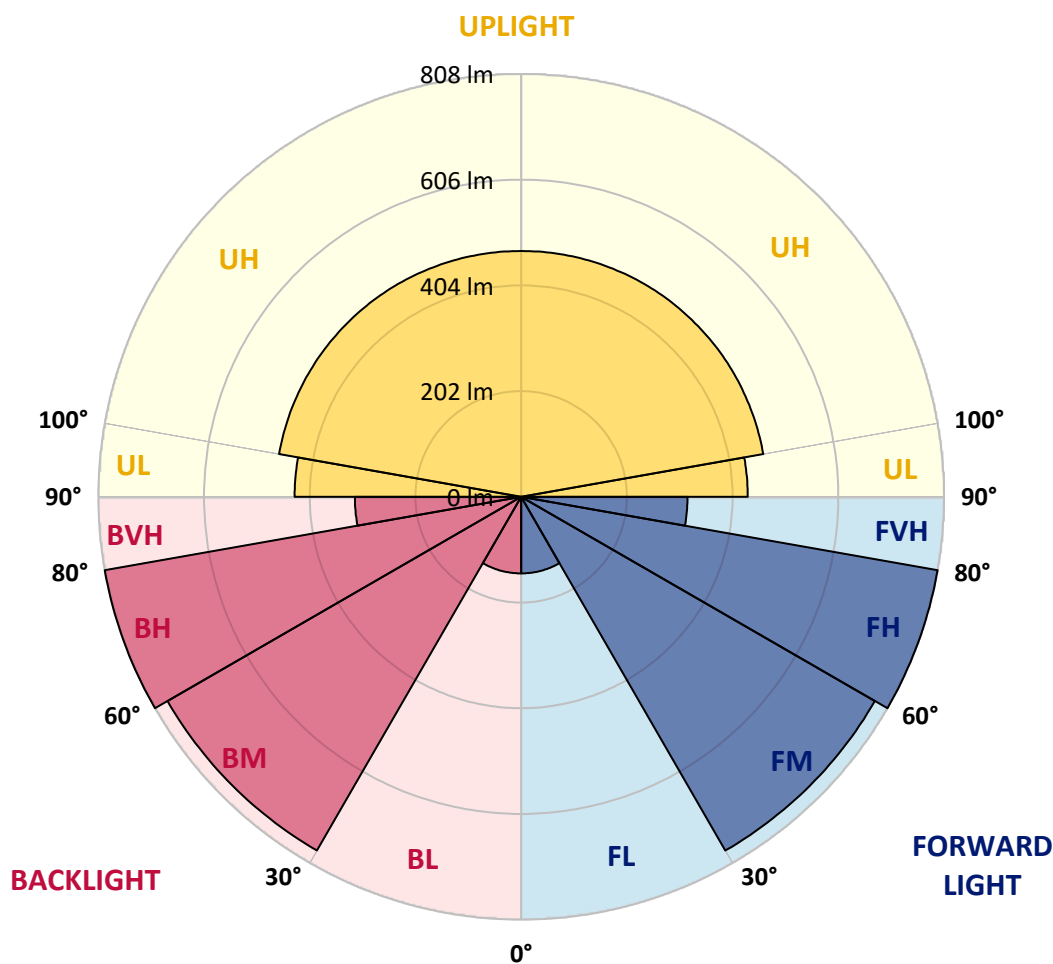
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.4	2.9			
FM	(30°-60°)	780.6	15.5			
FH	(60°-80°)	808.2	16.0			G1/1800
FVH	(80°-90°)	317.8	6.3			G3/500
BL	(0°-30°)	146.4	2.9	B1/500		
BM	(30°-60°)	780.6	15.5	B1/1000		
BH	(60°-80°)	808.2	16.0	B2/1000		G1/1800
BVH	(80°-90°)	317.8	6.3			G3/500
UL	(90°-100°)	433.0	8.6		U3/500	
UH	(100°-180°)	469.9	9.3		U3/500	

BUG Rating: B2-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	239.3	239.3	239.3	239.3	239.3	239.3	239.3	239.3	239.3	239.3	239.3
2.5°	240.6	240.6	239.9	239.9	239.9	239.9	239.9	240.6	239.9	240.6	240.6
5°	243.7	244.3	243.7	243.7	244.3	243.7	243.7	244.3	243.7	243.7	243.7
7.5°	251.3	251.3	250.6	250.6	250.6	250.1	250.1	250.6	250.1	250.1	250.1
10°	261.4	261.4	260.9	260.9	260.1	259.6	259.6	259.6	260.1	260.1	260.1
12.5°	274.7	275.4	274.2	273.5	272.8	272.2	272.2	272.2	272.2	272.8	272.2
15°	295.1	295.1	293.7	291.2	289.3	288.6	287.4	288.6	290.0	290.6	291.9
17.5°	319.6	318.4	317.2	314.6	310.9	307.0	308.9	310.9	312.7	313.4	313.4
20°	344.9	344.9	343.2	339.3	336.1	333.0	333.6	334.9	336.1	337.5	336.9
22.5°	371.0	372.3	369.7	367.1	364.6	364.1	360.8	360.8	361.5	362.7	362.7
25°	402.0	400.7	398.8	396.3	395.7	395.7	391.2	388.7	389.3	390.0	390.0
27.5°	433.6	432.4	429.8	427.4	428.0	426.8	423.6	419.1	417.3	419.1	417.8
30°	465.3	464.8	462.2	460.2	461.5	460.2	456.5	449.5	448.3	448.9	449.5
32.5°	498.9	499.5	496.4	495.8	496.4	493.2	490.0	484.9	480.6	482.4	482.4
35°	536.2	536.2	531.7	532.4	530.4	527.3	523.5	519.8	515.4	517.2	515.9
37.5°	574.1	573.6	570.5	569.7	566.0	559.6	557.8	555.8	550.8	552.1	552.6
40°	614.7	612.9	608.4	607.8	600.2	593.2	592.0	592.0	586.2	589.4	590.0
42.5°	654.0	652.7	648.9	645.7	634.4	626.1	624.2	628.6	624.9	626.7	626.7
45°	693.2	690.1	688.8	683.2	667.9	657.1	657.7	663.5	664.0	664.0	662.8
47.5°	730.6	730.0	727.4	716.7	699.6	687.6	688.8	697.7	700.9	700.1	700.9
50°	767.3	765.4	764.7	750.9	728.0	714.2	717.2	728.6	735.6	733.7	734.4
52.5°	802.1	799.0	797.7	781.3	754.7	738.9	742.0	758.3	766.7	766.1	766.1
55°	829.3	828.1	827.5	807.1	776.9	759.6	764.2	782.6	795.2	792.7	791.9
57.5°	852.1	850.9	851.6	828.1	794.6	774.9	780.5	803.4	817.9	814.1	814.1
60°	868.7	867.4	867.9	843.2	807.1	785.7	792.7	816.6	833.7	829.3	828.6
62.5°	876.1	875.6	876.8	850.9	812.8	790.7	798.4	824.3	842.6	837.0	835.7
65°	874.9	875.6	877.5	851.6	812.2	789.5	797.7	824.3	843.2	837.0	835.1
67.5°	864.8	866.8	869.2	843.9	804.6	782.6	790.1	816.6	835.7	828.6	825.5
70°	845.8	847.7	852.1	828.1	790.7	768.6	775.5	801.5	818.5	810.4	806.6
72.5°	816.0	820.5	825.5	804.6	769.2	748.3	755.2	779.3	795.2	784.4	780.0
75°	778.7	784.9	791.9	774.2	741.3	722.3	729.3	750.9	761.7	751.5	743.3
77.5°	736.9	743.3	751.5	736.9	707.8	691.3	695.7	713.6	723.0	710.3	704.0
80°	686.2	693.2	704.6	695.1	671.8	655.3	660.3	673.0	677.4	664.0	655.9
82.5°	636.3	642.6	653.3	649.6	629.9	616.6	619.1	628.6	630.6	614.7	607.8
85°	582.5	588.1	602.0	601.4	586.9	576.2	578.0	583.7	579.2	562.2	554.6
87.5°	528.7	531.7	547.6	550.1	542.5	535.0	534.3	534.3	528.1	510.9	505.1
90°	476.1	479.2	494.4	502.7	498.2	491.9	490.7	488.0	475.5	459.7	455.8
92.5°	425.4	426.8	443.9	455.3	454.0	449.5	447.5	442.5	428.0	409.5	407.1
95°	377.9	379.3	395.7	408.3	411.6	410.3	406.5	399.4	380.5	362.1	361.5
97.5°	334.3	333.6	349.5	365.3	371.5	371.5	365.9	356.4	338.0	319.6	319.1
100°	294.4	293.1	307.7	326.7	333.6	334.9	329.9	317.2	296.4	281.7	282.3
102.5°	258.4	257.1	269.8	288.0	298.1	300.8	295.1	279.8	260.1	246.9	247.6
105°	226.6	225.4	236.2	254.0	265.3	267.8	261.4	246.9	225.4	216.0	217.1
107.5°	196.9	196.3	203.8	221.6	234.3	238.1	231.8	216.0	195.7	188.6	189.4
110°	173.5	172.8	176.6	193.0	207.0	210.8	203.2	186.8	169.7	165.3	165.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	152.6	150.6	153.3	167.8	180.4	184.8	177.2	160.2	146.9	144.9	145.6
115°	132.9	132.9	132.3	143.6	157.1	160.7	153.3	138.0	127.3	126.7	126.7
117.5°	117.0	115.8	115.3	122.2	134.1	138.7	131.7	117.8	110.9	111.4	112.1
120°	102.0	102.0	100.0	103.1	113.9	117.0	111.4	100.7	96.2	97.5	98.2
122.5°	89.2	88.7	86.7	87.3	95.0	98.8	93.1	84.8	83.5	86.1	86.1
125°	77.3	76.5	74.6	73.4	77.3	80.4	76.5	71.5	72.1	74.6	75.4
127.5°	66.5	65.8	63.3	60.7	62.7	64.6	62.1	59.5	62.7	64.6	65.1
130°	57.0	56.4	53.8	50.0	49.3	50.7	48.8	49.3	53.2	56.4	56.4
132.5°	48.1	48.1	44.9	40.6	38.0	38.0	38.0	40.6	44.9	47.5	48.1
135°	39.9	39.9	37.4	32.2	27.8	27.2	27.8	32.2	37.4	39.3	39.9
137.5°	32.9	32.2	29.7	25.3	19.7	18.3	19.7	24.8	29.7	32.2	32.2
140°	26.0	25.3	22.7	19.0	14.0	11.4	14.0	18.3	22.7	25.3	25.3
142.5°	19.0	19.0	16.4	13.2	8.9	6.9	8.9	13.2	17.1	18.3	19.0
145°	13.2	13.2	11.4	8.3	5.1	3.9	5.1	8.9	11.4	13.2	13.2
147.5°	8.9	8.9	7.5	5.1	3.1	1.8	3.1	5.7	7.5	8.9	8.9
150°	5.1	5.1	4.4	3.1	1.3	0.5	1.3	3.1	4.4	5.1	5.1
152.5°	2.5	2.5	1.8	1.3	0.5	0.5	0.5	1.3	2.5	2.5	3.1
155°	1.3	1.3	1.3	0.5	0.0	0.0	0.0	0.5	1.3	1.3	1.3
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)