

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: P255074

Luminaire Tested: **LXF.LXT-AF24-100-D-U-5WQ-TL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-100-D-U-5WQ-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9121.6 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G4

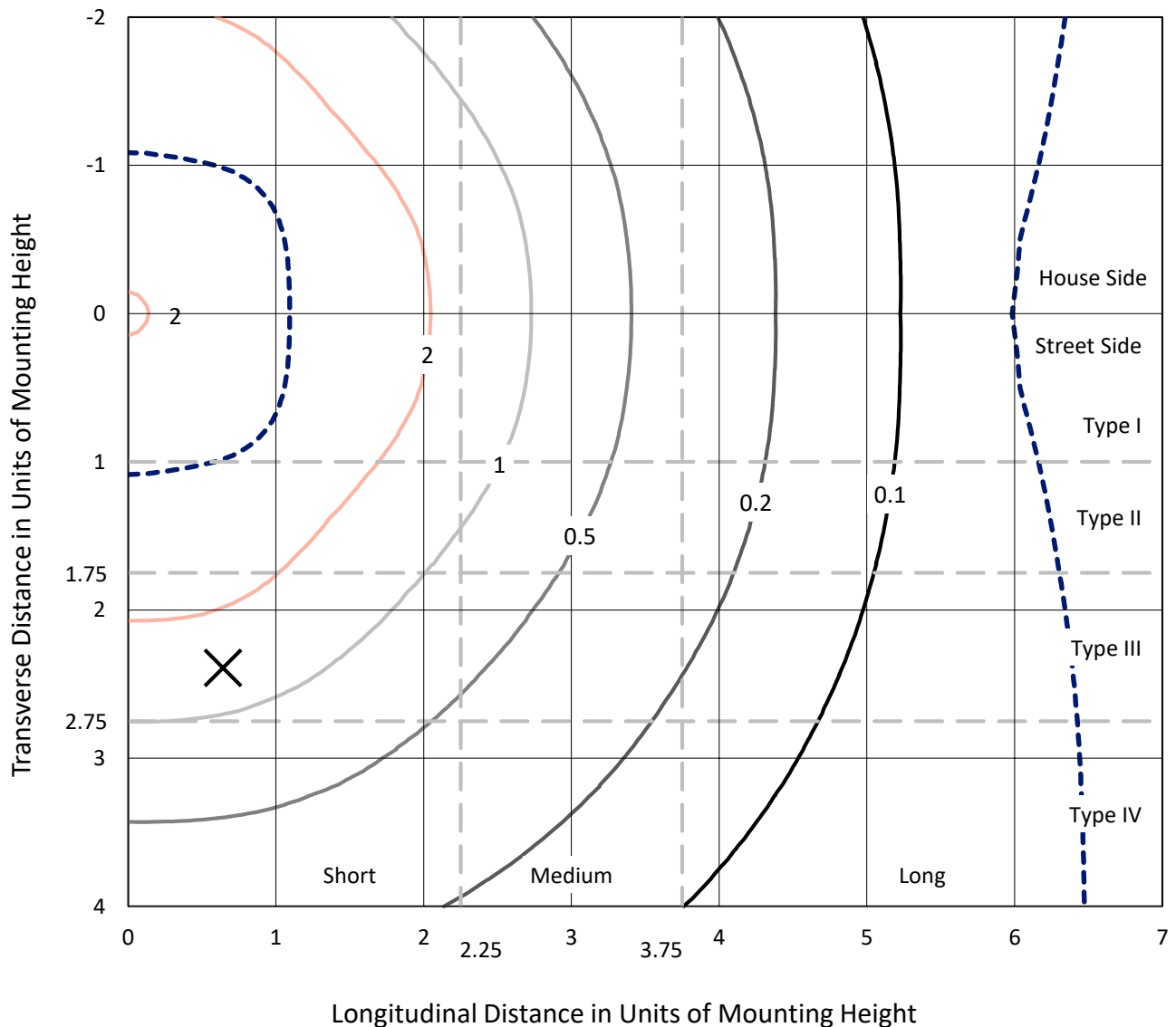
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

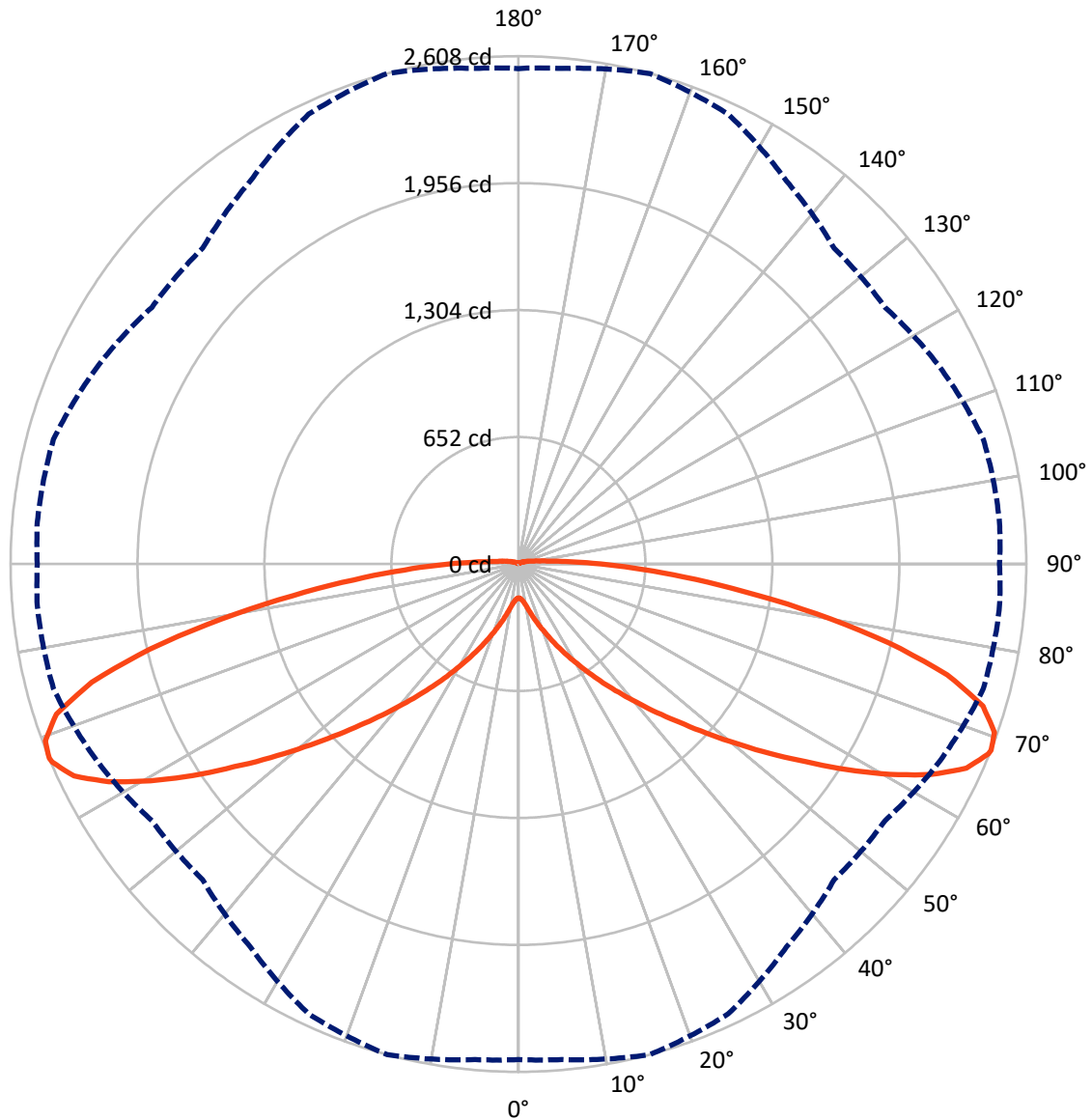
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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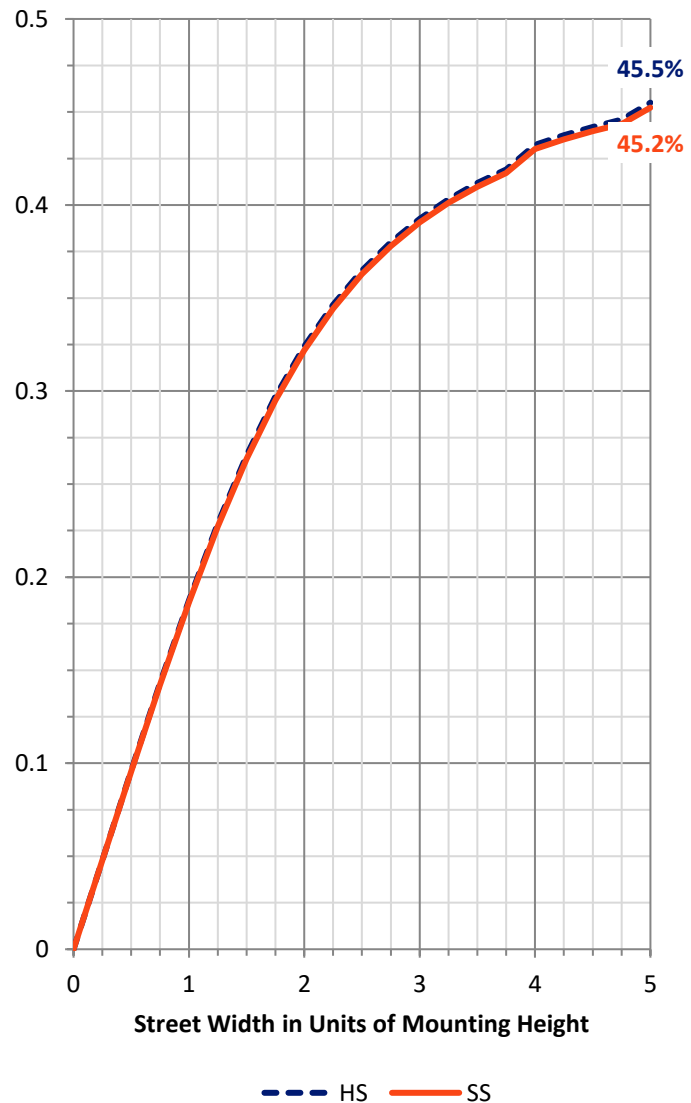
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4378.3	182.5	4560.8
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	4378.3	182.5	4560.8
	% Fixture	48.0	2.0	50.0
Total	Lumens	8756.6	365.0	9121.6
	% Fixture	96.0	4.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	0.2
10°-20°	83.4	0.9
20°-30°	219.8	2.4
30°-40°	461.3	5.1
40°-50°	866.2	9.5
50°-60°	1530.5	16.8
60°-70°	2308.3	25.3
70°-80°	2237.3	24.5
80°-90°	1031.2	11.3
90°-100°	245.3	2.7
100°-110°	68.6	0.8
110°-120°	28.8	0.3
120°-130°	12.9	0.1
130°-140°	6.2	0.1
140°-150°	2.6	0.0
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	8756.6	96.0
0°-180°	9121.6	100.0



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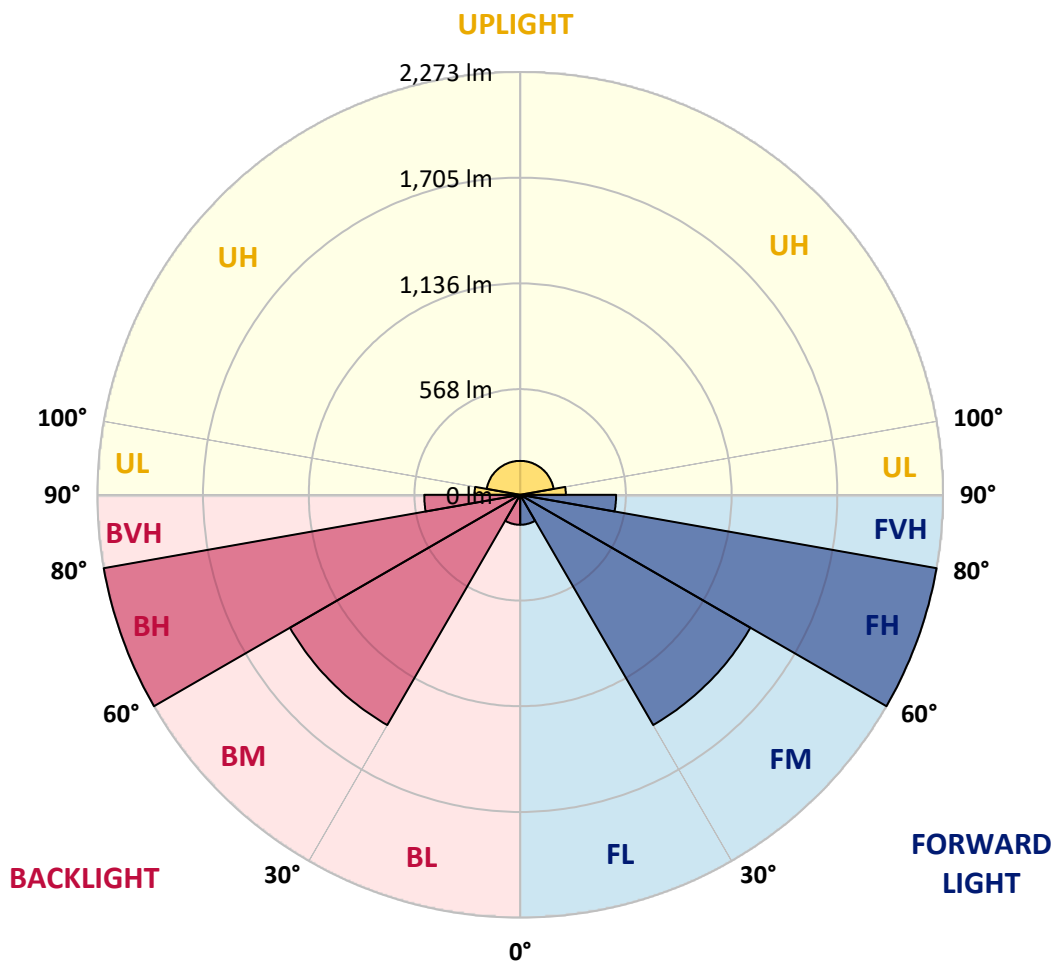
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.9	1.8			
FM	(30°-60°)	1429.0	15.7			
FH	(60°-80°)	2272.8	24.9			G2/5000
FVH	(80°-90°)	515.6	5.7			G4/750
BL	(0°-30°)	160.9	1.8	B1/500		
BM	(30°-60°)	1429.0	15.7	B2/2500		
BH	(60°-80°)	2272.8	24.9	B3/2500		G2/5000
BVH	(80°-90°)	515.6	5.7			G4/750
UL	(90°-100°)	245.3	2.7		U3/500	
UH	(100°-180°)	182.5	2.0		U3/500	

BUG Rating: B3-U3-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9
2.5°	177.0	177.0	177.0	177.0	177.0	178.0	177.0	177.0	177.0	177.0	177.0
5°	184.1	184.1	184.1	185.2	185.2	185.2	185.2	185.2	185.2	186.2	185.2
7.5°	197.4	197.4	197.4	197.4	197.4	197.4	198.5	199.5	199.5	200.5	200.5
10°	217.9	217.9	216.9	216.9	216.9	217.9	217.9	219.9	221.0	224.0	223.0
12.5°	249.6	249.6	247.6	245.5	244.5	243.5	245.5	249.6	252.7	257.8	256.8
15°	285.4	285.4	283.4	280.3	279.3	278.2	279.3	284.4	289.5	294.6	293.6
17.5°	325.3	324.3	322.2	318.1	318.1	317.1	317.1	322.2	328.4	335.5	335.5
20°	369.3	367.2	364.2	359.1	359.1	358.0	359.1	363.1	372.4	380.5	380.5
22.5°	419.4	417.4	413.3	408.2	405.1	403.0	404.1	410.2	421.5	432.7	433.7
25°	475.7	472.6	468.5	462.4	454.2	450.1	452.1	462.4	476.7	491.0	487.9
27.5°	535.0	534.0	527.8	518.6	506.4	500.2	505.3	517.6	535.0	550.3	551.4
30°	604.6	601.5	593.3	579.0	565.7	553.4	558.5	574.9	598.4	618.9	619.9
32.5°	677.2	676.2	667.0	646.5	624.0	612.7	617.9	641.4	669.0	689.5	693.6
35°	761.1	759.0	748.8	722.2	693.6	678.2	683.3	712.0	745.7	771.3	773.4
37.5°	853.1	848.0	835.8	804.0	767.2	748.8	753.9	786.6	827.6	853.1	859.3
40°	948.3	947.3	932.9	896.1	851.1	825.5	833.7	870.5	917.6	946.2	950.3
42.5°	1058.9	1056.8	1042.5	999.4	944.2	914.5	923.7	967.7	1018.9	1047.6	1052.7
45°	1175.5	1177.5	1158.1	1116.1	1051.7	1017.8	1024.0	1074.2	1130.5	1166.3	1170.4
47.5°	1310.5	1307.4	1296.2	1244.0	1170.4	1131.5	1138.6	1193.9	1260.4	1294.1	1296.2
50°	1452.7	1449.6	1445.5	1391.3	1306.4	1266.5	1270.6	1331.0	1398.5	1433.3	1442.5
52.5°	1611.2	1612.3	1614.3	1555.0	1459.9	1405.6	1414.8	1483.4	1555.0	1586.7	1594.9
55°	1787.2	1788.2	1792.3	1732.0	1624.5	1564.2	1575.4	1651.1	1727.9	1759.6	1762.6
57.5°	1982.6	1977.5	1993.8	1922.2	1804.6	1735.0	1747.3	1826.1	1907.9	1938.6	1944.7
60°	2178.0	2170.8	2193.3	2121.7	1986.7	1911.0	1917.1	2009.2	2097.2	2116.6	2129.9
62.5°	2343.7	2350.8	2380.5	2307.9	2158.5	2066.5	2076.7	2169.8	2268.0	2287.4	2290.5
65°	2473.6	2483.8	2527.8	2452.1	2303.8	2193.3	2207.6	2303.8	2405.1	2414.3	2412.2
67.5°	2542.1	2551.3	2601.5	2539.1	2388.7	2280.3	2288.4	2381.5	2467.5	2476.7	2467.5
68°	2544.2	2554.4	2607.6	2548.3	2399.9	2292.5	2297.6	2388.7	2471.6	2479.7	2470.5
70°	2513.5	2538.0	2593.3	2549.3	2410.2	2309.9	2310.9	2384.6	2463.4	2457.2	2449.0
72.5°	2394.8	2416.3	2494.1	2475.6	2359.0	2273.1	2260.8	2312.0	2358.0	2340.6	2335.5
75°	2153.4	2173.9	2274.1	2294.6	2229.1	2166.7	2137.0	2153.4	2152.4	2120.7	2108.4
77.5°	1803.6	1832.2	1942.7	2018.4	1996.9	1971.3	1921.2	1896.7	1850.6	1786.2	1765.7
80°	1401.5	1430.2	1549.9	1655.2	1698.2	1701.3	1655.2	1573.4	1481.3	1393.4	1376.0
82.5°	1039.4	1069.1	1169.3	1300.3	1356.5	1389.3	1338.1	1232.8	1129.4	1032.2	1014.8
85°	726.3	747.8	849.0	955.4	1037.3	1073.2	1016.8	926.8	822.5	738.6	722.2
87.5°	495.1	507.4	587.2	693.6	770.3	805.1	757.0	669.0	572.9	496.1	478.7
90°	314.0	322.2	381.6	470.6	548.3	579.0	541.1	464.4	376.4	314.0	302.8
92.5°	192.3	196.4	240.4	312.0	377.5	412.2	378.5	310.0	238.3	193.3	187.2
95°	125.8	128.9	154.5	200.5	254.7	280.3	257.8	206.6	158.6	128.9	124.8
97.5°	93.1	95.1	110.5	135.0	167.8	187.2	171.9	141.2	113.5	95.1	92.1
100°	72.6	73.7	83.9	99.2	117.6	128.9	120.7	103.3	85.9	72.6	71.6
102.5°	58.3	58.3	67.5	78.8	90.0	96.2	91.0	81.8	67.5	57.3	56.3
105°	46.0	47.1	54.2	64.4	72.6	76.7	73.7	66.5	54.2	45.0	44.0
107.5°	36.8	36.8	44.0	53.2	61.4	64.4	61.4	55.2	43.0	35.8	34.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	28.6	29.7	34.8	44.0	51.1	54.2	51.1	45.0	34.8	28.6	27.6
112.5°	23.5	23.5	27.6	35.8	43.0	45.0	43.0	35.8	27.6	22.5	22.5
115°	19.4	19.4	22.5	29.7	35.8	37.8	35.8	29.7	22.5	18.4	18.4
117.5°	16.4	17.4	19.4	24.6	29.7	30.7	29.7	24.6	18.4	16.4	15.3
120°	14.3	15.3	16.4	20.5	24.6	25.6	23.5	19.4	15.3	14.3	13.3
122.5°	13.3	13.3	14.3	16.4	20.5	21.5	19.4	16.4	13.3	12.3	12.3
125°	12.3	12.3	12.3	14.3	16.4	17.4	16.4	13.3	11.3	11.3	11.3
127.5°	11.3	11.3	11.3	12.3	14.3	14.3	13.3	11.3	10.2	10.2	10.2
130°	10.2	10.2	10.2	10.2	11.3	12.3	11.3	10.2	9.2	9.2	9.2
132.5°	9.2	9.2	9.2	9.2	9.2	10.2	9.2	8.2	8.2	8.2	8.2
135°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.2	7.2	7.2	7.2
137.5°	7.2	7.2	7.2	7.2	7.2	7.2	6.1	6.1	6.1	7.2	7.2
140°	6.1	6.1	6.1	6.1	5.1	5.1	5.1	5.1	6.1	6.1	6.1
142.5°	6.1	6.1	5.1	5.1	4.1	4.1	4.1	4.1	5.1	5.1	5.1
145°	5.1	5.1	4.1	4.1	4.1	3.1	3.1	4.1	4.1	4.1	4.1
147.5°	4.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
150°	3.1	3.1	3.1	2.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1
152.5°	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	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)