

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: P254260

Luminaire Tested: **LXF.LXT-AF24-60-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-60-D-U-5WQ-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 6762.7 lumens
Efficiency: N/A
Efficacy: 105.7 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 - G3

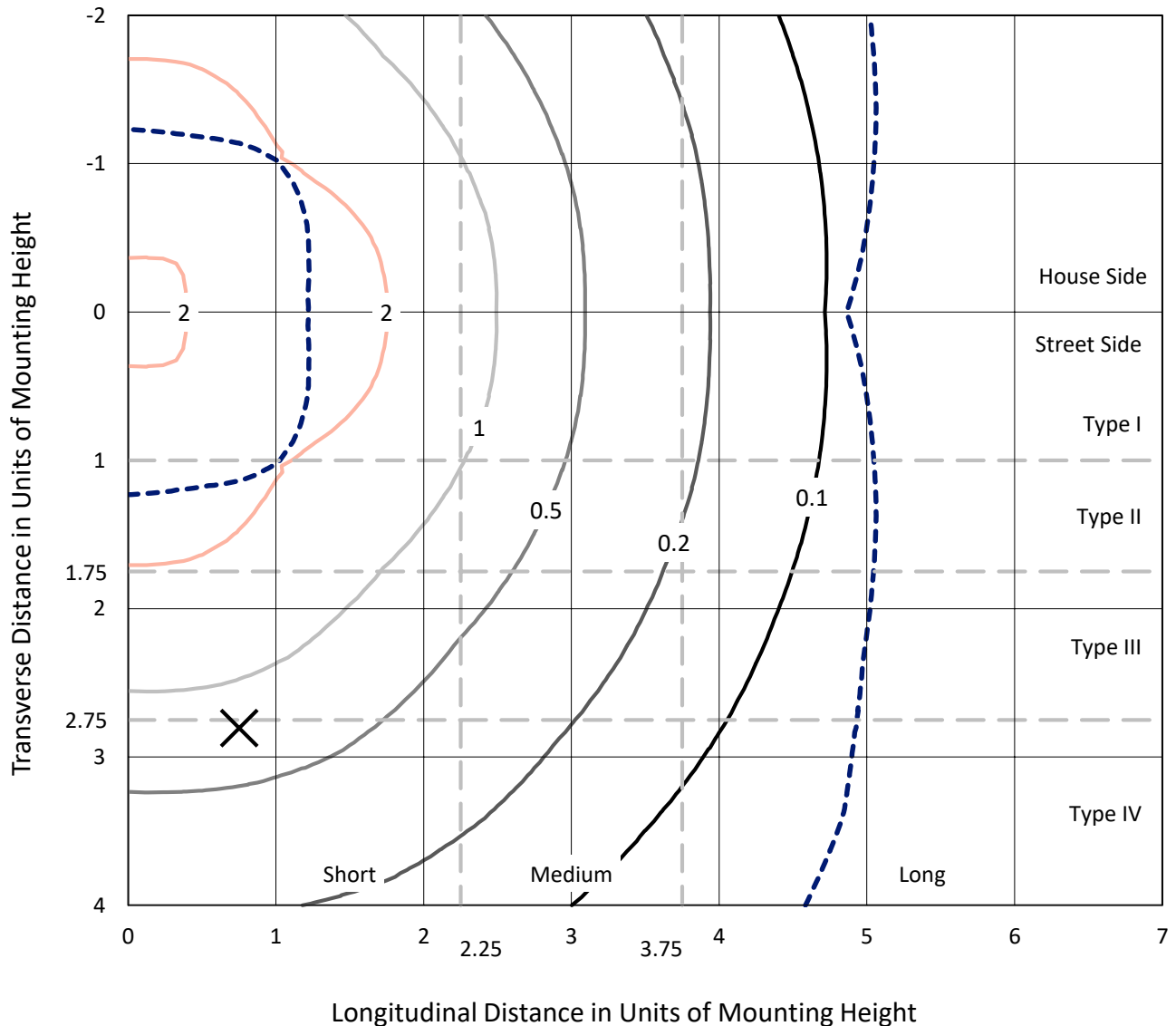
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

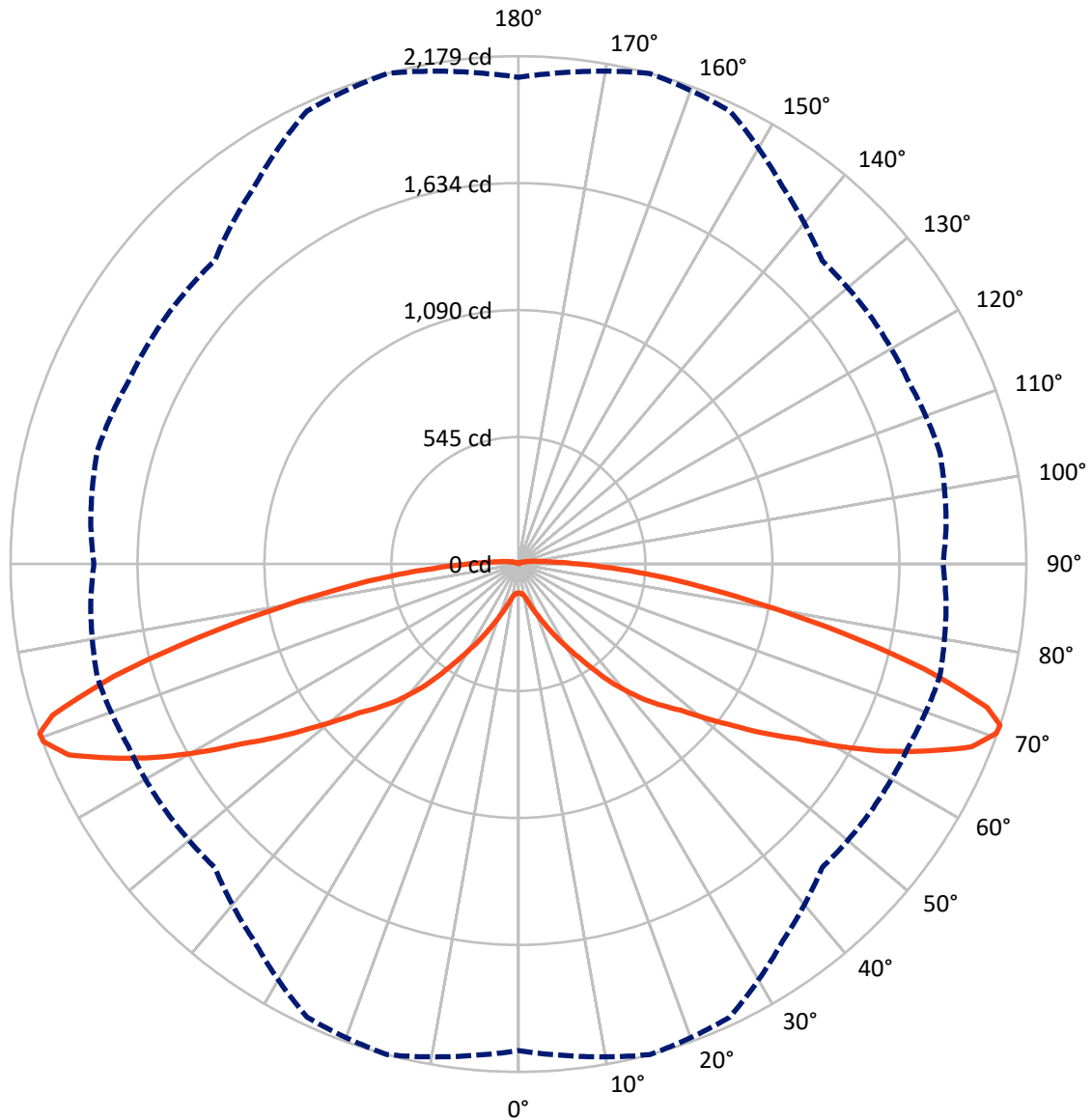
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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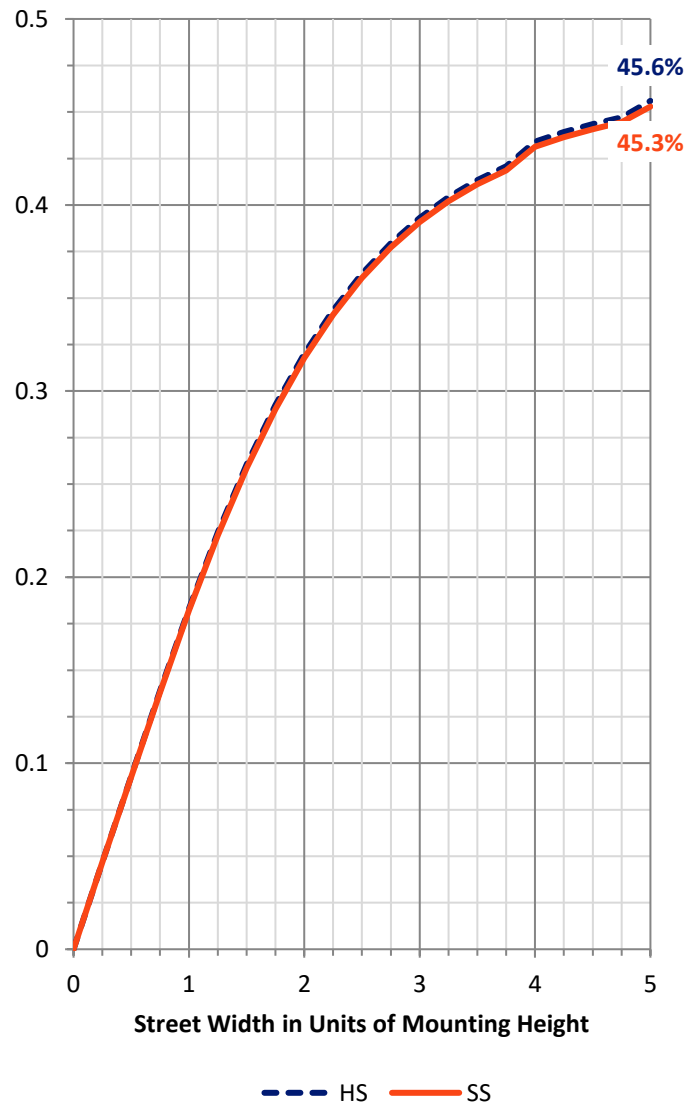
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3240.3	141.1	3381.4
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	3240.3	141.1	3381.4
	% Fixture	47.9	2.1	50.0
Total	Lumens	6480.5	282.2	6762.7
	% Fixture	95.8	4.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.2
10°-20°	50.1	0.7
20°-30°	141.9	2.1
30°-40°	330.6	4.9
40°-50°	617.2	9.1
50°-60°	1101.3	16.3
60°-70°	1805.5	26.7
70°-80°	1688.9	25.0
80°-90°	732.5	10.8
90°-100°	185.0	2.7
100°-110°	54.0	0.8
110°-120°	22.2	0.3
120°-130°	11.7	0.2
130°-140°	6.5	0.1
140°-150°	2.5	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6480.5	95.8
0°-180°	6762.7	100.0



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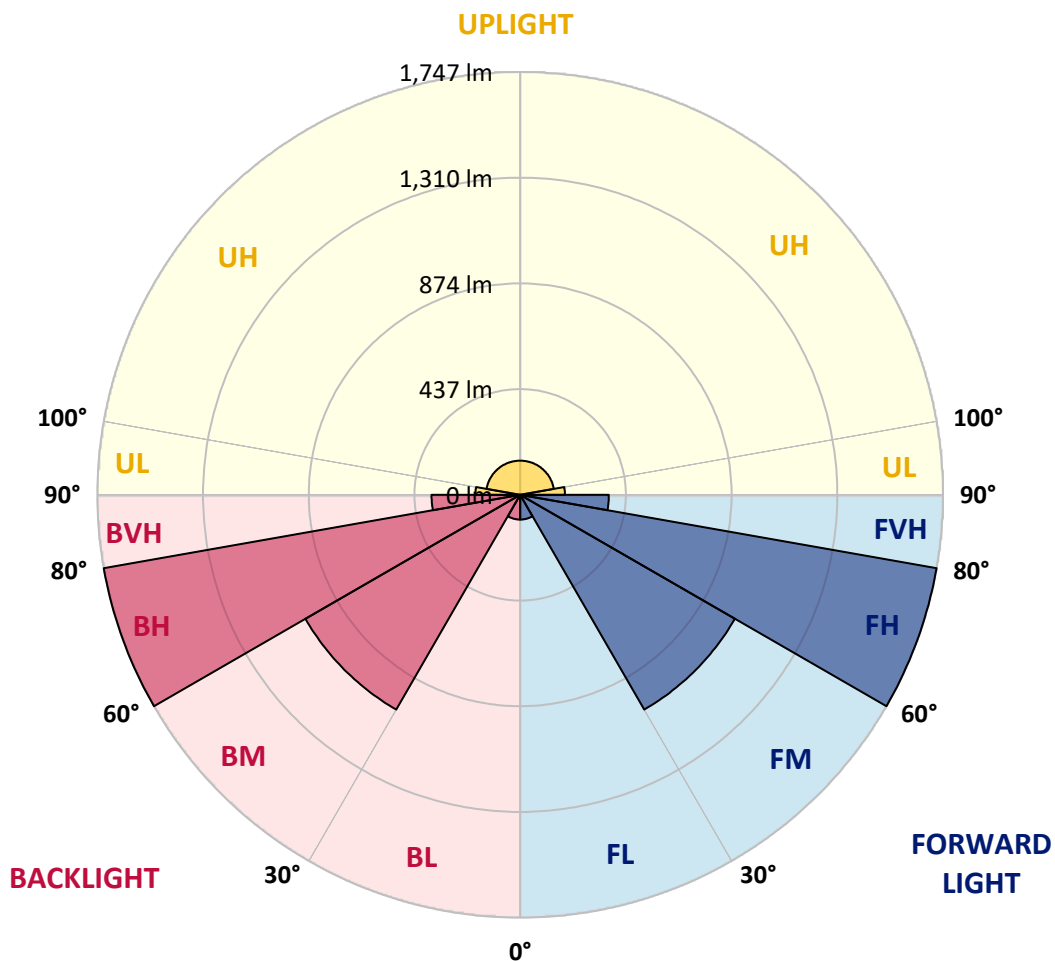
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	102.2	1.5			
FM	(30°-60°)	1024.6	15.2			
FH	(60°-80°)	1747.2	25.8			G1/1800
FVH	(80°-90°)	366.3	5.4			G3/500
BL	(0°-30°)	102.2	1.5	B0/110		
BM	(30°-60°)	1024.6	15.2	B2/2500		
BH	(60°-80°)	1747.2	25.8	B3/2500		G1/1800
BVH	(80°-90°)	366.3	5.4			G3/500
UL	(90°-100°)	185.0	2.7		U3/500	
UH	(100°-180°)	141.1	2.1		U3/500	

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6
2.5°	125.3	125.3	125.3	126.1	126.1	126.1	125.3	125.3	124.6	124.6	124.6
5°	127.7	127.7	127.7	127.7	127.7	127.7	126.8	126.8	126.1	126.1	126.1
7.5°	131.4	131.4	131.4	131.4	131.4	130.7	129.9	129.2	129.2	129.2	129.2
10°	139.8	139.8	139.1	138.3	137.6	136.1	136.1	135.3	135.3	135.3	136.1
12.5°	157.4	157.4	155.2	151.3	146.8	145.3	144.4	146.0	148.3	149.0	150.6
15°	180.3	180.3	177.4	171.2	164.4	158.3	159.8	164.4	168.2	170.4	172.0
17.5°	208.7	208.7	204.1	195.7	185.8	181.9	181.2	187.3	193.3	197.9	201.0
20°	240.0	240.0	233.8	222.4	212.5	210.2	209.4	214.0	223.2	230.1	233.1
22.5°	278.2	279.0	269.9	254.5	244.6	240.0	239.3	245.4	259.9	269.9	273.6
25°	325.6	325.6	315.7	294.3	280.5	272.9	274.5	285.9	306.5	320.3	322.5
27.5°	378.4	376.9	363.9	340.9	321.0	309.5	313.4	330.9	356.2	376.9	379.9
30°	437.2	435.7	417.4	392.9	364.6	350.9	357.0	382.2	416.5	445.6	449.5
32.5°	505.2	503.7	480.8	449.5	412.0	393.6	405.1	441.0	483.0	520.6	525.9
35°	587.1	585.5	555.0	511.4	465.5	443.3	458.6	502.2	551.9	597.0	603.8
37.5°	672.7	672.7	640.6	584.7	524.4	496.8	513.6	563.3	622.2	666.6	674.1
40°	750.6	750.6	718.5	664.2	590.9	554.1	571.7	623.0	675.7	715.5	723.1
42.5°	822.5	824.7	794.9	739.2	660.4	618.4	629.1	674.1	728.4	772.7	780.4
45°	879.7	884.3	866.0	813.2	734.6	684.9	688.7	739.9	804.1	850.8	859.9
47.5°	949.3	950.1	937.1	887.4	813.2	759.0	762.1	822.5	892.8	940.9	945.5
50°	1047.9	1050.3	1038.8	982.2	904.3	843.1	858.4	921.1	1008.2	1059.4	1060.9
52.5°	1157.3	1159.5	1151.1	1099.2	1009.8	950.8	974.6	1047.2	1133.5	1176.4	1174.9
55°	1271.9	1277.3	1281.9	1233.7	1139.0	1078.5	1110.6	1186.3	1266.5	1308.6	1304.1
57.5°	1399.6	1403.4	1415.6	1372.8	1288.0	1229.1	1269.6	1345.3	1427.1	1467.6	1460.7
60°	1574.6	1580.7	1590.7	1531.8	1443.9	1397.2	1441.6	1521.8	1605.2	1629.7	1620.5
62.5°	1733.6	1740.4	1768.0	1723.7	1609.0	1560.1	1618.9	1696.2	1765.7	1777.2	1761.8
65°	1888.8	1896.3	1933.9	1895.6	1781.8	1712.2	1774.1	1837.5	1902.5	1910.9	1895.6
67.5°	2030.1	2050.8	2095.9	2043.1	1914.8	1835.3	1870.4	1921.6	1978.9	1969.0	1949.9
70°	2102.8	2129.5	2175.4	2138.7	1979.7	1859.7	1878.9	1894.1	1921.6	1907.9	1891.0
71°	2088.3	2115.8	2179.2	2145.5	1975.9	1842.1	1847.4	1848.3	1871.2	1842.1	1821.5
72.5°	1984.3	2013.4	2102.8	2107.4	1937.7	1791.7	1768.0	1748.8	1736.7	1684.7	1668.6
75°	1661.0	1699.2	1799.4	1856.7	1761.8	1619.7	1578.4	1514.2	1479.1	1419.4	1415.6
77.5°	1292.5	1317.8	1415.6	1502.7	1476.7	1385.1	1338.4	1275.7	1239.0	1192.5	1164.9
80°	963.1	971.5	1060.2	1158.8	1188.6	1151.9	1117.5	1060.9	1017.3	972.3	948.6
82.5°	684.9	700.9	781.2	888.2	958.5	960.0	935.6	872.2	823.3	775.8	757.5
85°	463.2	479.3	557.2	670.3	761.3	800.3	775.8	692.5	619.1	564.1	552.6
87.5°	290.4	305.8	362.3	463.2	583.2	642.8	614.6	511.4	428.0	377.6	367.6
90°	190.4	199.5	233.1	298.9	402.0	484.6	452.6	356.2	285.1	240.0	235.4
92.5°	131.4	134.5	155.2	193.3	267.5	334.0	310.4	240.0	187.3	155.2	150.6
95°	94.0	97.1	110.1	133.0	178.8	219.4	206.3	162.9	127.7	105.5	102.4
97.5°	69.6	71.8	83.3	98.6	126.1	147.5	138.3	115.4	93.3	76.4	74.2
100°	54.3	55.0	65.0	76.4	94.0	105.5	98.6	86.3	71.8	59.6	58.1
102.5°	42.8	43.6	51.2	60.4	72.6	81.0	75.7	66.5	55.8	47.4	46.6
105°	33.7	34.4	39.8	48.2	58.1	63.4	59.6	52.0	42.8	36.7	36.7
107.5°	26.8	27.5	31.3	38.3	46.6	51.2	48.2	40.5	33.7	29.1	29.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	22.2	22.2	25.3	30.6	38.3	42.0	39.0	32.1	26.8	23.7	22.9
112.5°	18.3	18.3	20.7	25.3	31.3	34.4	32.1	26.0	21.4	19.1	19.1
115°	15.2	16.1	16.8	21.4	26.8	29.1	26.8	22.2	17.6	16.1	16.1
117.5°	13.7	13.7	15.2	18.3	22.9	25.3	22.9	19.1	15.2	14.5	14.5
120°	12.3	12.3	13.0	15.2	19.8	21.4	19.8	16.1	13.7	13.0	13.0
122.5°	11.5	11.5	11.5	13.7	16.8	19.1	17.6	14.5	12.3	11.5	11.5
125°	10.7	10.7	10.7	12.3	15.2	16.1	15.2	13.0	10.7	10.7	10.7
127.5°	10.7	10.7	10.7	11.5	13.0	14.5	13.7	11.5	9.9	9.9	9.9
130°	9.9	9.9	9.9	10.7	11.5	12.3	11.5	10.7	9.9	9.9	9.9
132.5°	9.2	9.2	9.2	9.2	9.9	10.7	9.9	9.2	9.2	9.2	9.2
135°	8.4	8.4	8.4	7.7	8.4	9.2	8.4	7.7	7.7	8.4	8.4
137.5°	7.7	7.7	6.9	6.9	6.9	7.7	6.9	6.9	6.9	6.9	7.7
140°	6.9	6.9	6.1	6.1	6.1	6.1	5.3	5.3	5.3	6.1	6.1
142.5°	6.1	5.3	5.3	4.6	4.6	4.6	4.6	3.8	4.6	5.3	5.3
145°	4.6	4.6	4.6	3.8	3.8	3.8	3.1	3.1	3.8	3.8	3.8
147.5°	3.8	3.8	3.1	3.1	2.3	2.3	2.3	2.3	3.1	3.1	3.1
150°	3.1	3.1	2.3	2.3	1.5	1.5	1.5	1.5	2.3	2.3	2.3
152.5°	2.3	2.3	1.5	1.5	1.5	0.7	0.7	0.7	1.5	1.5	1.5
155°	1.5	1.5	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)