

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: P254263

Luminaire Tested: **LXF.LXT-AF24-90-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254263
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-AF24-90-D-U-5WQ-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8937.6 lumens
Efficiency: N/A
Efficacy: 95.1 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

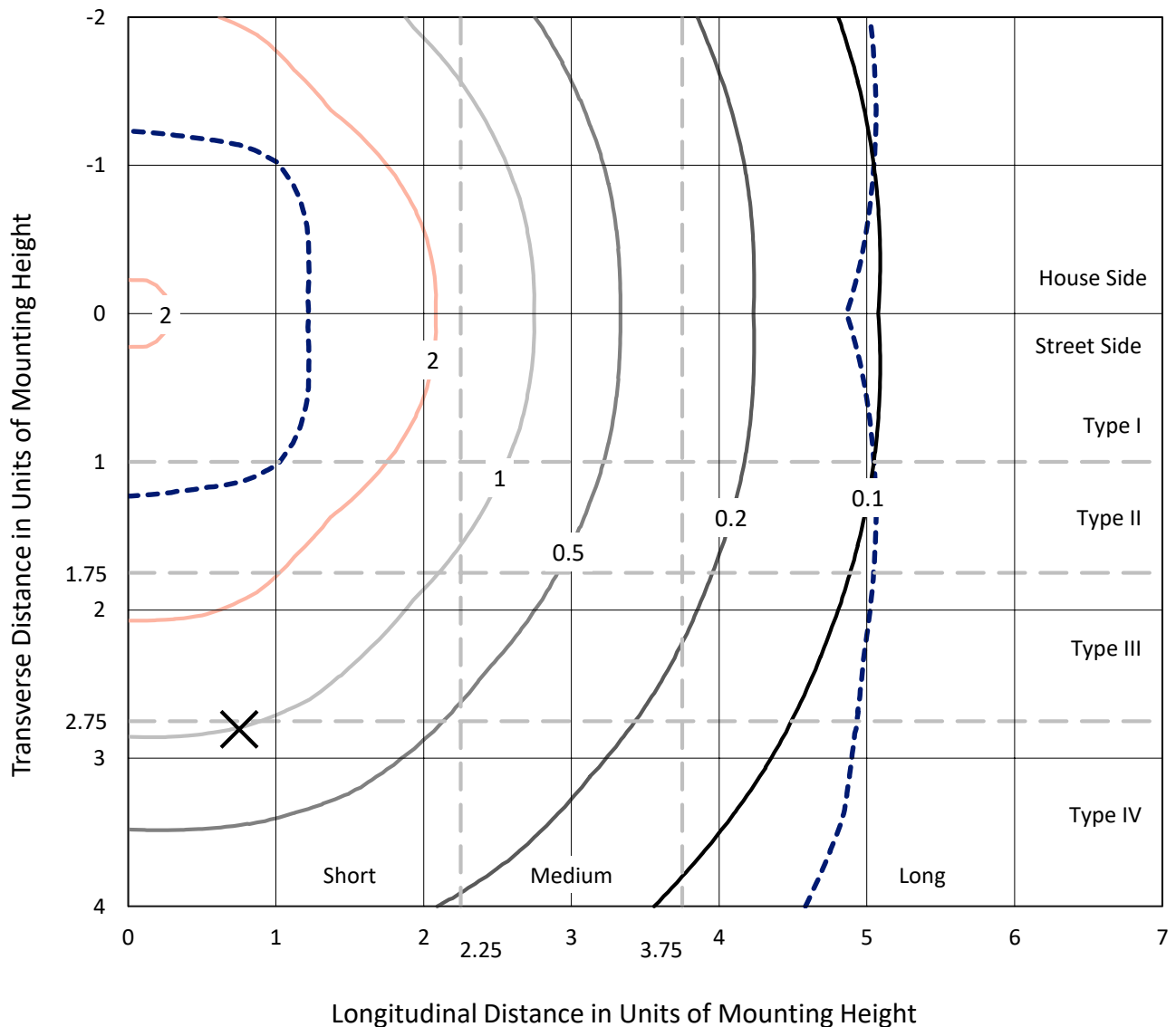
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

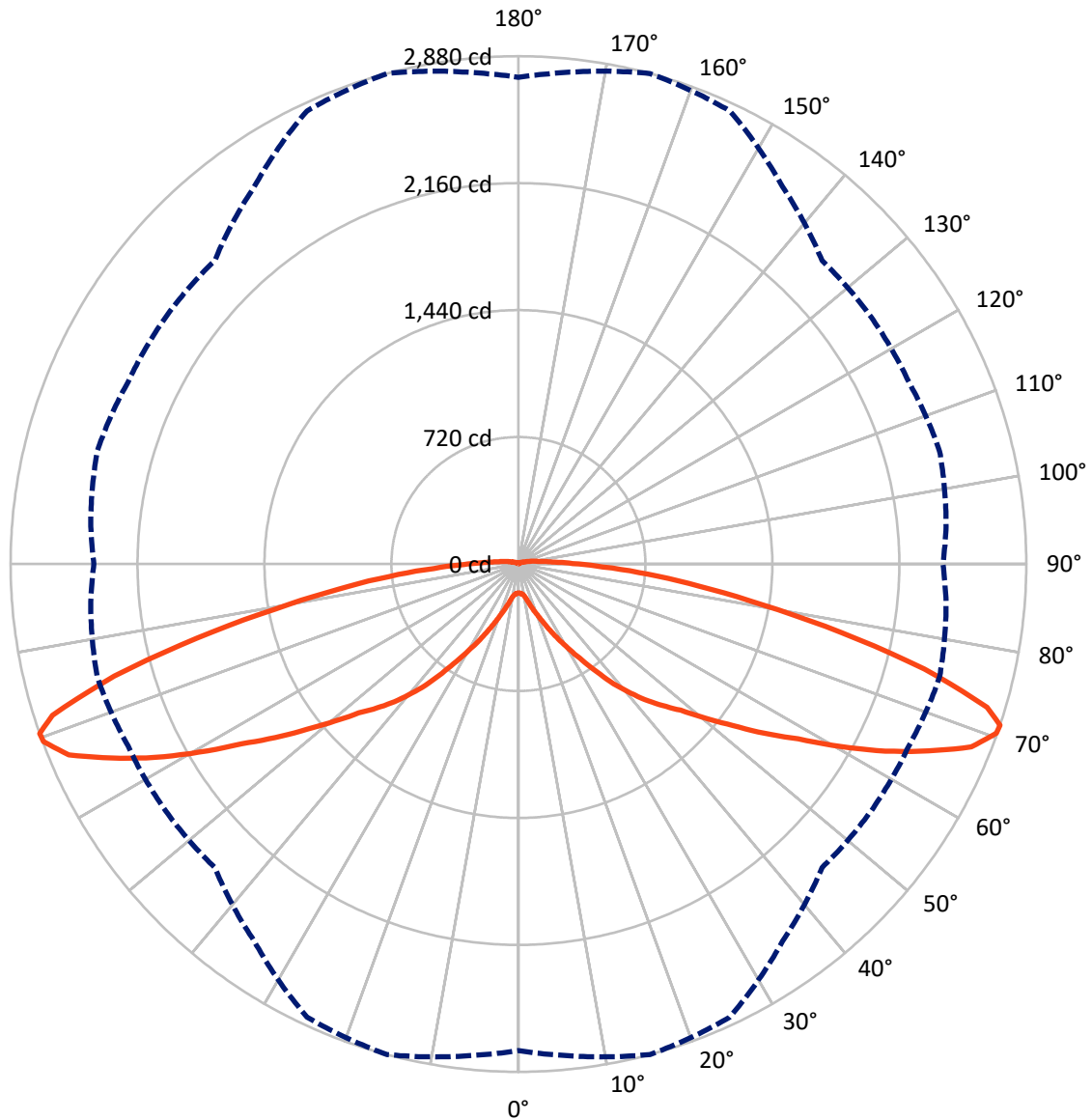
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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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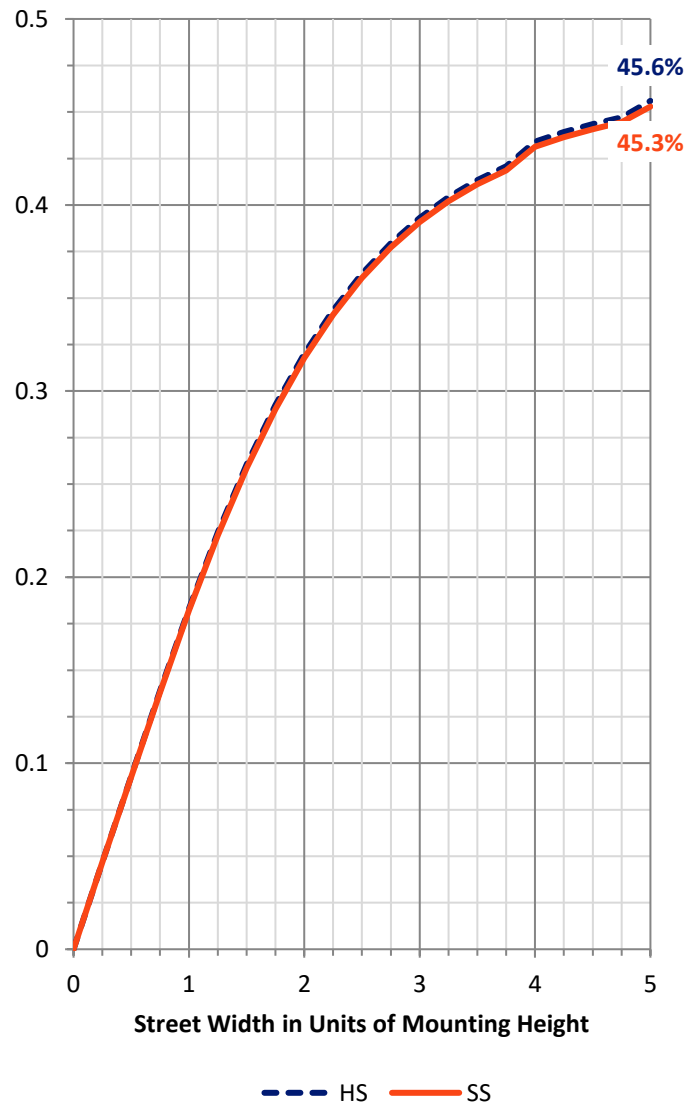
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4282.3	186.5	4468.8
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	4282.3	186.5	4468.8
	% Fixture	47.9	2.1	50.0
Total	Lumens	8564.6	373.0	8937.6
	% Fixture	95.8	4.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	0.2
10°-20°	66.3	0.7
20°-30°	187.5	2.1
30°-40°	437.0	4.9
40°-50°	815.7	9.1
50°-60°	1455.5	16.3
60°-70°	2386.2	26.7
70°-80°	2232.0	25.0
80°-90°	968.1	10.8
90°-100°	244.5	2.7
100°-110°	71.3	0.8
110°-120°	29.3	0.3
120°-130°	15.5	0.2
130°-140°	8.6	0.1
140°-150°	3.3	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8564.6	95.8
0°-180°	8937.6	100.0

Coefficient of Utilization



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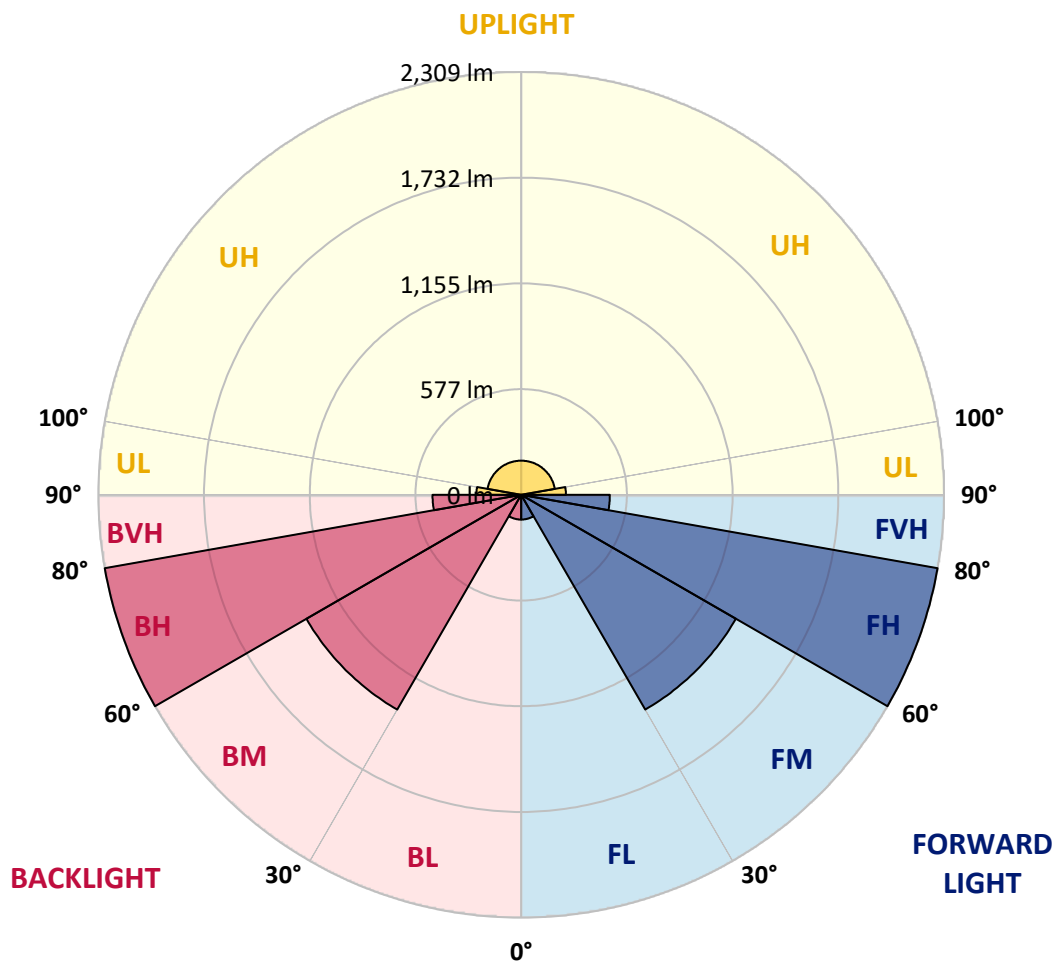
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.1	1.5			
FM	(30°-60°)	1354.1	15.2			
FH	(60°-80°)	2309.1	25.8			G2/5000
FVH	(80°-90°)	484.0	5.4			G3/500
BL	(0°-30°)	135.1	1.5	B1/500		
BM	(30°-60°)	1354.1	15.2	B2/2500		
BH	(60°-80°)	2309.1	25.8	B3/2500		G2/5000
BVH	(80°-90°)	484.0	5.4			G3/500
UL	(90°-100°)	244.5	2.7		U3/500	
UH	(100°-180°)	186.5	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°	164.7	164.7	164.7	164.7	164.7	164.7	164.7	164.7	164.7	164.7	164.7
2.5°	165.7	165.7	165.7	166.6	166.6	166.6	165.7	165.7	164.7	164.7	164.7
5°	168.7	168.7	168.7	168.7	168.7	168.7	167.7	167.7	166.6	166.6	166.6
7.5°	173.8	173.8	173.8	173.8	173.8	172.8	171.8	170.7	170.7	170.7	170.7
10°	184.8	184.8	183.8	182.8	181.9	179.8	179.8	178.8	178.8	178.8	179.8
12.5°	208.1	208.1	205.1	200.0	194.0	191.9	190.9	192.9	196.0	197.0	199.0
15°	238.4	238.4	234.4	226.3	217.2	209.1	211.1	217.2	222.3	225.3	227.3
17.5°	275.8	275.8	269.8	258.6	245.5	240.4	239.4	247.5	255.5	261.7	265.7
20°	317.2	317.2	309.1	294.0	280.8	277.8	276.8	282.8	295.0	304.0	308.1
22.5°	367.8	368.7	356.6	336.3	323.3	317.2	316.2	324.3	343.5	356.6	361.6
25°	430.4	430.4	417.2	388.9	370.7	360.6	362.6	377.8	405.1	423.3	426.3
27.5°	500.0	498.0	480.9	450.5	424.3	409.1	414.2	437.4	470.8	498.0	502.1
30°	577.9	575.8	551.6	519.2	481.8	463.7	471.8	505.1	550.6	588.9	594.0
32.5°	667.7	665.7	635.4	594.0	544.5	520.3	535.4	582.9	638.4	687.9	695.0
35°	775.8	773.8	733.4	675.8	615.2	585.9	606.1	663.7	729.4	788.9	798.0
37.5°	888.9	888.9	846.5	772.7	692.9	656.6	678.8	744.5	822.2	880.9	891.0
40°	992.0	992.0	949.6	877.8	780.8	732.3	755.7	823.3	893.0	945.5	955.6
42.5°	1087.0	1090.0	1050.6	976.8	872.8	817.2	831.4	891.0	962.7	1021.3	1031.3
45°	1162.7	1168.8	1144.6	1074.8	970.8	905.1	910.1	977.8	1062.7	1124.3	1136.5
47.5°	1254.6	1255.7	1238.5	1172.8	1074.8	1003.1	1007.1	1087.0	1179.9	1243.5	1249.6
50°	1385.0	1387.9	1372.8	1298.1	1195.0	1114.2	1134.5	1217.3	1332.4	1400.1	1402.2
52.5°	1529.4	1532.5	1521.3	1452.6	1334.4	1256.7	1288.0	1384.0	1498.1	1554.7	1552.6
55°	1680.9	1688.0	1694.1	1630.4	1505.2	1425.4	1467.8	1567.8	1673.9	1729.4	1723.4
57.5°	1849.6	1854.7	1870.9	1814.3	1702.2	1624.3	1677.9	1777.9	1886.0	1939.5	1930.4
60°	2081.0	2089.1	2102.2	2024.4	1908.2	1846.6	1905.1	2011.2	2121.4	2153.7	2141.5
62.5°	2291.1	2300.2	2336.5	2277.9	2126.4	2061.8	2139.6	2241.6	2333.6	2348.7	2328.4
65°	2496.1	2506.2	2555.7	2505.2	2354.7	2262.8	2344.6	2428.5	2514.3	2525.5	2505.2
67.5°	2683.0	2710.3	2769.9	2700.2	2530.5	2425.4	2471.9	2539.6	2615.4	2602.2	2576.9
70°	2778.9	2814.3	2875.0	2826.5	2616.4	2457.7	2483.0	2503.3	2539.6	2521.4	2499.2
71°	2759.8	2796.1	2880.0	2835.5	2611.3	2434.5	2441.6	2442.6	2472.9	2434.5	2407.2
72.5°	2622.4	2660.8	2778.9	2785.1	2560.8	2367.8	2336.5	2311.3	2295.1	2226.5	2205.2
75°	2195.2	2245.6	2378.0	2453.8	2328.4	2140.5	2086.0	2001.2	1954.7	1875.9	1870.9
77.5°	1708.2	1741.6	1870.9	1986.0	1951.7	1830.5	1768.8	1686.0	1637.5	1575.9	1539.5
80°	1272.9	1283.9	1401.1	1531.5	1570.8	1522.4	1476.8	1402.2	1344.6	1284.9	1253.6
82.5°	905.1	926.3	1032.4	1173.8	1266.7	1268.8	1236.4	1152.7	1088.0	1025.3	1001.1
85°	612.1	633.4	736.4	885.9	1006.2	1057.6	1025.3	915.2	818.3	745.5	730.4
87.5°	383.9	404.1	478.8	612.1	770.8	849.6	812.2	675.8	565.7	499.0	485.9
90°	251.5	263.6	308.1	395.0	531.3	640.5	598.0	470.8	376.8	317.2	311.2
92.5°	173.8	177.8	205.1	255.5	353.5	441.4	410.1	317.2	247.5	205.1	199.0
95°	124.3	128.3	145.5	175.7	236.4	289.9	272.7	215.1	168.7	139.4	135.3
97.5°	92.0	94.9	110.1	130.3	166.6	195.0	182.8	152.5	123.3	101.1	98.0
100°	71.7	72.7	85.8	101.1	124.3	139.4	130.3	114.2	94.9	78.8	76.8
102.5°	56.6	57.6	67.7	79.8	96.0	107.1	100.0	87.9	73.8	62.6	61.6
105°	44.5	45.4	52.6	63.6	76.8	83.9	78.8	68.7	56.6	48.5	48.5
107.5°	35.4	36.4	41.4	50.5	61.6	67.7	63.6	53.5	44.5	38.4	38.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	29.3	29.3	33.3	40.4	50.5	55.5	51.6	42.5	35.4	31.3	30.3
112.5°	24.2	24.2	27.3	33.3	41.4	45.4	42.5	34.4	28.3	25.3	25.3
115°	20.3	21.2	22.2	28.3	35.4	38.4	35.4	29.3	23.2	21.2	21.2
117.5°	18.2	18.2	20.3	24.2	30.3	33.3	30.3	25.3	20.3	19.2	19.2
120°	16.2	16.2	17.2	20.3	26.3	28.3	26.3	21.2	18.2	17.2	17.2
122.5°	15.1	15.1	15.1	18.2	22.2	25.3	23.2	19.2	16.2	15.1	15.1
125°	14.1	14.1	14.1	16.2	20.3	21.2	20.3	17.2	14.1	14.1	14.1
127.5°	14.1	14.1	14.1	15.1	17.2	19.2	18.2	15.1	13.1	13.1	13.1
130°	13.1	13.1	13.1	14.1	15.1	16.2	15.1	14.1	13.1	13.1	13.1
132.5°	12.2	12.2	12.2	12.2	13.1	14.1	13.1	12.2	12.2	12.2	12.2
135°	11.2	11.2	11.2	10.1	11.2	12.2	11.2	10.1	10.1	11.2	11.2
137.5°	10.1	10.1	9.1	9.1	9.1	10.1	9.1	9.1	9.1	9.1	10.1
140°	9.1	9.1	8.1	8.1	8.1	8.1	7.1	7.1	7.1	8.1	8.1
142.5°	8.1	7.1	7.1	6.0	6.0	6.0	6.0	5.0	6.0	7.1	7.1
145°	6.0	6.0	6.0	5.0	5.0	5.0	4.1	4.1	5.0	5.0	5.0
147.5°	5.0	5.0	4.1	4.1	3.1	3.1	3.1	3.1	4.1	4.1	4.1
150°	4.1	4.1	3.1	3.1	2.0	2.0	2.0	2.0	3.1	3.1	3.1
152.5°	3.1	3.1	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0
155°	2.0	2.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	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)