

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: P254253

Luminaire Tested: **LXF.LXT-AF24-80-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254253
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-AF24-80-D-U-5WQ-A-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 7838.2 lumens
Efficiency: N/A
Efficacy: 94.4 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): 83
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

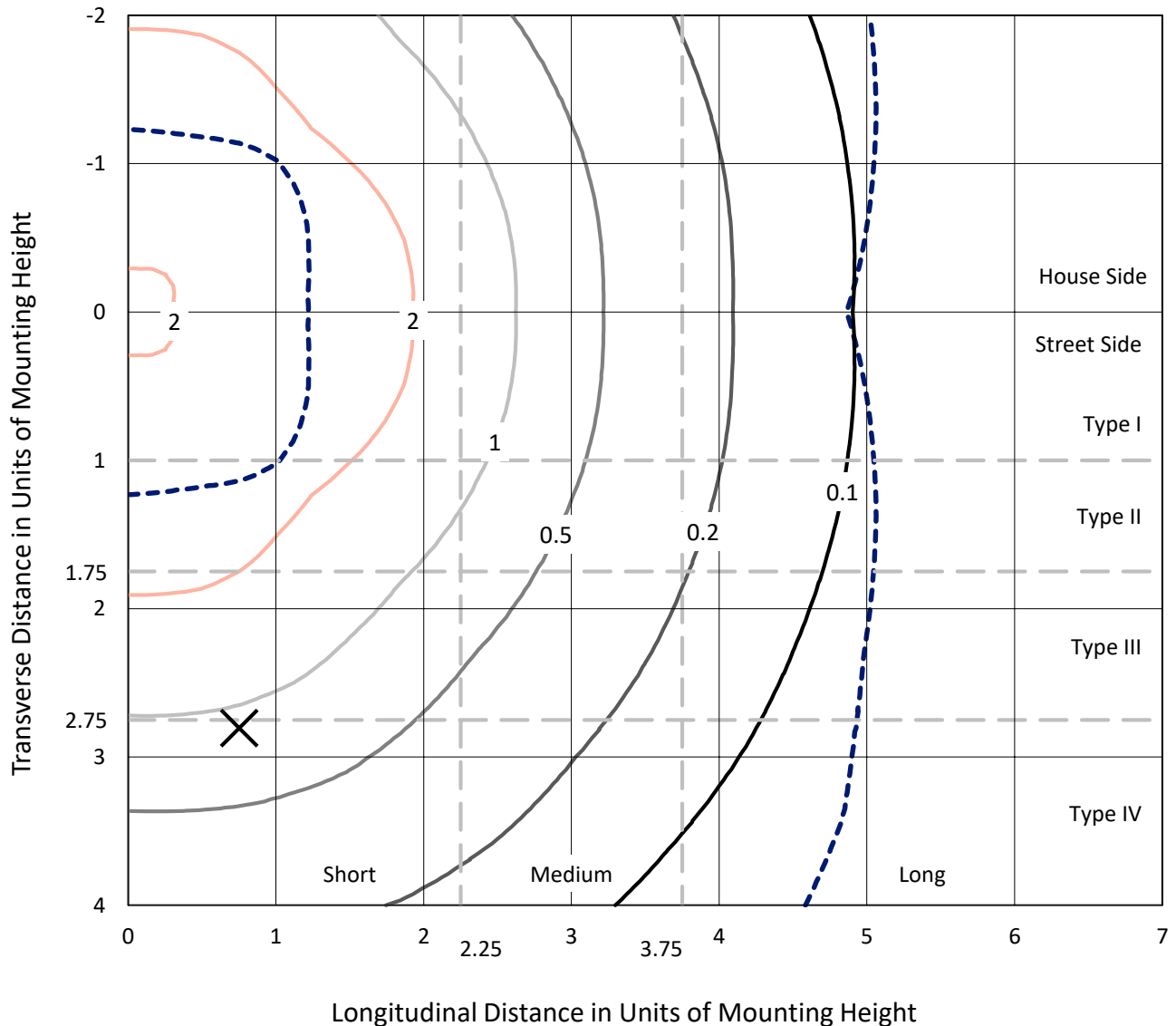


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

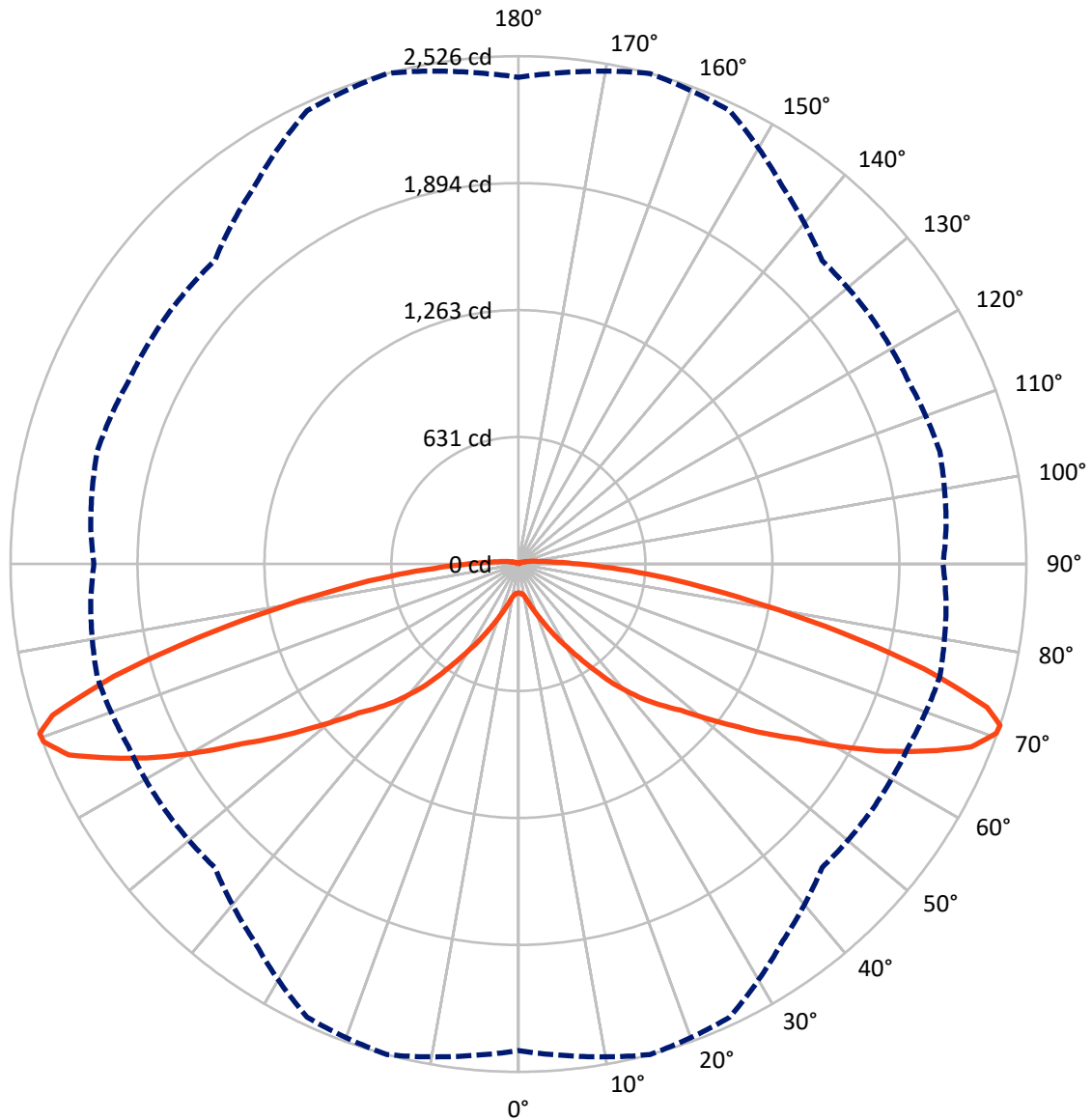


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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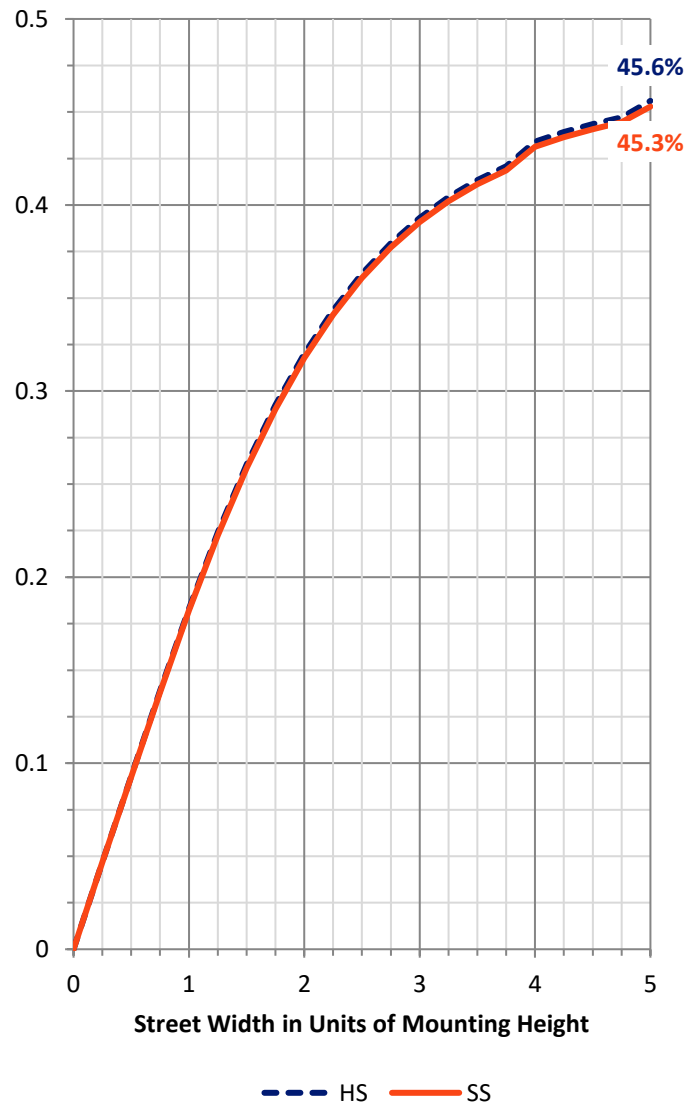
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3755.6	163.5	3919.1
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	3755.6	163.5	3919.1
	% Fixture	47.9	2.1	50.0
Total	Lumens	7511.2	327.1	7838.2
	% Fixture	95.8	4.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	0.2
10°-20°	58.1	0.7
20°-30°	164.4	2.1
30°-40°	383.2	4.9
40°-50°	715.4	9.1
50°-60°	1276.4	16.3
60°-70°	2092.7	26.7
70°-80°	1957.4	25.0
80°-90°	849.0	10.8
90°-100°	214.4	2.7
100°-110°	62.5	0.8
110°-120°	25.7	0.3
120°-130°	13.6	0.2
130°-140°	7.5	0.1
140°-150°	2.9	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7511.2	95.8
0°-180°	7838.2	100.0

Coefficient of Utilization



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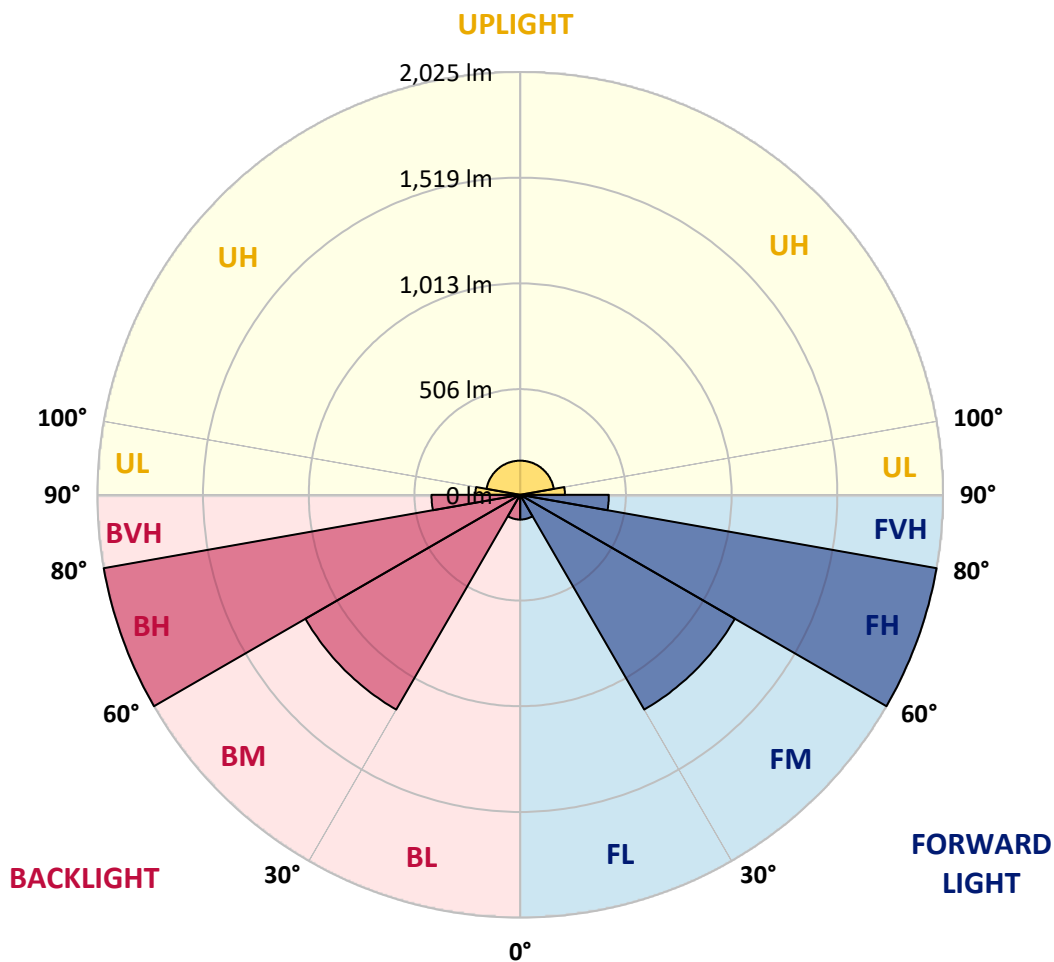
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.5	1.5			
FM (30°-60°)	1187.5	15.2			
FH (60°-80°)	2025.1	25.8			G2/5000
FVH (80°-90°)	424.5	5.4			G3/500
BL (0°-30°)	118.5	1.5	B1/500		
BM (30°-60°)	1187.5	15.2	B2/2500		
BH (60°-80°)	2025.1	25.8	B3/2500		G2/5000
BVH (80°-90°)	424.5	5.4			G3/500
UL (90°-100°)	214.4	2.7		U3/500	
UH (100°-180°)	163.5	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°	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4
2.5°	145.4	145.4	145.4	146.2	146.2	146.2	145.4	145.4	144.4	144.4	144.4
5°	147.9	147.9	147.9	147.9	147.9	147.9	147.1	147.1	146.2	146.2	146.2
7.5°	152.4	152.4	152.4	152.4	152.4	151.6	150.6	149.6	149.6	149.6	149.6
10°	162.1	162.1	161.2	160.4	159.5	157.7	157.7	156.8	156.8	156.8	157.7
12.5°	182.5	182.5	179.8	175.4	170.1	168.4	167.5	169.3	171.9	172.7	174.5
15°	209.1	209.1	205.5	198.5	190.4	183.3	185.2	190.4	194.9	197.5	199.3
17.5°	241.9	241.9	236.5	226.8	215.2	210.9	210.0	217.1	224.1	229.5	233.0
20°	278.2	278.2	271.1	257.9	246.3	243.6	242.8	248.0	258.7	266.7	270.2
22.5°	322.6	323.4	312.7	295.0	283.5	278.2	277.3	284.4	301.2	312.7	317.2
25°	377.4	377.4	365.9	341.1	325.1	316.3	318.1	331.4	355.3	371.2	373.8
27.5°	438.5	436.7	421.7	395.1	372.1	358.8	363.2	383.6	412.9	436.7	440.4
30°	506.8	505.0	483.7	455.4	422.7	406.7	413.8	442.9	482.8	516.5	520.9
32.5°	585.6	583.9	557.2	520.9	477.5	456.2	469.6	511.3	560.0	603.3	609.5
35°	680.3	678.6	643.2	592.7	539.5	513.8	531.5	582.1	639.6	691.9	700.0
37.5°	779.6	779.6	742.4	677.7	607.7	575.9	595.4	653.0	721.1	772.6	781.4
40°	870.0	870.0	832.8	769.8	684.8	642.3	662.6	721.9	783.2	829.3	838.1
42.5°	953.3	955.9	921.4	856.7	765.5	716.7	729.1	781.4	844.2	895.7	904.5
45°	1019.7	1025.1	1003.8	942.6	851.3	793.8	798.2	857.5	932.0	986.1	996.7
47.5°	1100.4	1101.3	1086.1	1028.5	942.6	879.7	883.3	953.3	1034.8	1090.6	1095.9
50°	1214.6	1217.2	1203.9	1138.4	1048.1	977.3	995.0	1067.6	1168.5	1227.8	1229.7
52.5°	1341.2	1344.0	1334.2	1274.0	1170.2	1102.1	1129.5	1213.8	1313.9	1363.4	1361.7
55°	1474.2	1480.4	1485.7	1429.8	1320.1	1250.0	1287.3	1374.9	1468.0	1516.7	1511.4
57.5°	1622.2	1626.6	1640.7	1591.2	1492.8	1424.5	1471.5	1559.2	1654.0	1700.9	1693.0
60°	1825.0	1832.1	1843.6	1775.4	1673.6	1619.4	1670.9	1763.9	1860.4	1888.8	1878.1
62.5°	2009.3	2017.3	2049.1	1997.8	1864.8	1808.1	1876.4	1965.9	2046.5	2059.7	2042.0
65°	2189.1	2198.0	2241.5	2197.1	2065.1	1984.4	2056.3	2129.8	2205.1	2214.8	2197.1
67.5°	2353.0	2376.9	2429.3	2368.0	2219.3	2127.2	2167.9	2227.2	2293.7	2282.2	2260.0
70°	2437.2	2468.1	2521.3	2478.9	2294.6	2155.4	2177.6	2195.3	2227.2	2211.3	2191.7
71°	2420.3	2452.3	2525.7	2486.8	2290.2	2135.2	2141.3	2142.1	2168.8	2135.2	2111.2
72.5°	2299.9	2333.6	2437.2	2442.5	2245.9	2076.6	2049.1	2027.0	2012.9	1952.6	1934.0
75°	1925.1	1969.4	2085.4	2152.0	2042.0	1877.3	1829.4	1755.0	1714.3	1645.2	1640.7
77.5°	1498.2	1527.3	1640.7	1741.7	1711.6	1605.3	1551.3	1478.6	1436.1	1382.0	1350.1
80°	1116.3	1126.0	1228.8	1343.2	1377.6	1335.1	1295.3	1229.7	1179.1	1126.9	1099.4
82.5°	793.8	812.5	905.4	1029.4	1110.9	1112.7	1084.4	1010.8	954.2	899.2	878.0
85°	536.9	555.5	645.8	777.0	882.4	927.6	899.2	802.6	717.7	653.8	640.5
87.5°	336.6	354.3	419.9	536.9	676.0	745.0	712.3	592.7	496.1	437.7	426.1
90°	220.6	231.2	270.2	346.4	466.0	561.7	524.5	412.9	330.4	278.2	272.8
92.5°	152.4	155.9	179.8	224.1	310.1	387.1	359.7	278.2	217.1	179.8	174.5
95°	108.9	112.5	127.7	154.2	207.3	254.2	239.2	188.7	147.9	122.3	118.8
97.5°	80.7	83.2	96.5	114.2	146.2	171.0	160.4	133.8	108.0	88.6	86.0
100°	63.0	63.8	75.3	88.6	108.9	122.3	114.2	100.1	83.2	69.1	67.3
102.5°	49.6	50.5	59.3	70.0	84.1	94.0	87.7	77.0	64.7	54.9	54.1
105°	39.0	39.9	46.1	55.8	67.3	73.5	69.1	60.2	49.6	42.5	42.5
107.5°	31.0	31.9	36.3	44.2	54.1	59.3	55.8	47.0	39.0	33.7	33.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	25.6	25.6	29.3	35.4	44.2	48.7	45.3	37.2	31.0	27.5	26.6
112.5°	21.3	21.3	23.9	29.3	36.3	39.9	37.2	30.1	24.8	22.2	22.2
115°	17.7	18.6	19.4	24.8	31.0	33.7	31.0	25.6	20.3	18.6	18.6
117.5°	16.0	16.0	17.7	21.3	26.6	29.3	26.6	22.2	17.7	16.8	16.8
120°	14.2	14.2	15.1	17.7	23.1	24.8	23.1	18.6	16.0	15.1	15.1
122.5°	13.3	13.3	13.3	16.0	19.4	22.2	20.3	16.8	14.2	13.3	13.3
125°	12.4	12.4	12.4	14.2	17.7	18.6	17.7	15.1	12.4	12.4	12.4
127.5°	12.4	12.4	12.4	13.3	15.1	16.8	16.0	13.3	11.5	11.5	11.5
130°	11.5	11.5	11.5	12.4	13.3	14.2	13.3	12.4	11.5	11.5	11.5
132.5°	10.6	10.6	10.6	10.6	11.5	12.4	11.5	10.6	10.6	10.6	10.6
135°	9.8	9.8	9.8	8.8	9.8	10.6	9.8	8.8	8.8	9.8	9.8
137.5°	8.8	8.8	7.9	7.9	7.9	8.8	7.9	7.9	7.9	7.9	8.8
140°	7.9	7.9	7.1	7.1	7.1	7.1	6.2	6.2	6.2	7.1	7.1
142.5°	7.1	6.2	6.2	5.4	5.4	5.4	5.4	4.5	5.4	6.2	6.2
145°	5.4	5.4	5.4	4.5	4.5	4.5	3.5	3.5	4.5	4.5	4.5
147.5°	4.5	4.5	3.5	3.5	2.6	2.6	2.6	2.6	3.5	3.5	3.5
150°	3.5	3.5	2.6	2.6	1.7	1.7	1.7	1.7	2.6	2.6	2.6
152.5°	2.6	2.6	1.7	1.7	1.7	0.9	0.9	0.9	1.7	1.7	1.7
155°	1.7	1.7	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	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)