

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: P266083

Luminaire Tested: **LXF.LXT-AF24-50-D-U-5WQ-CL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-23)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-5WQ-CL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4993.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G2

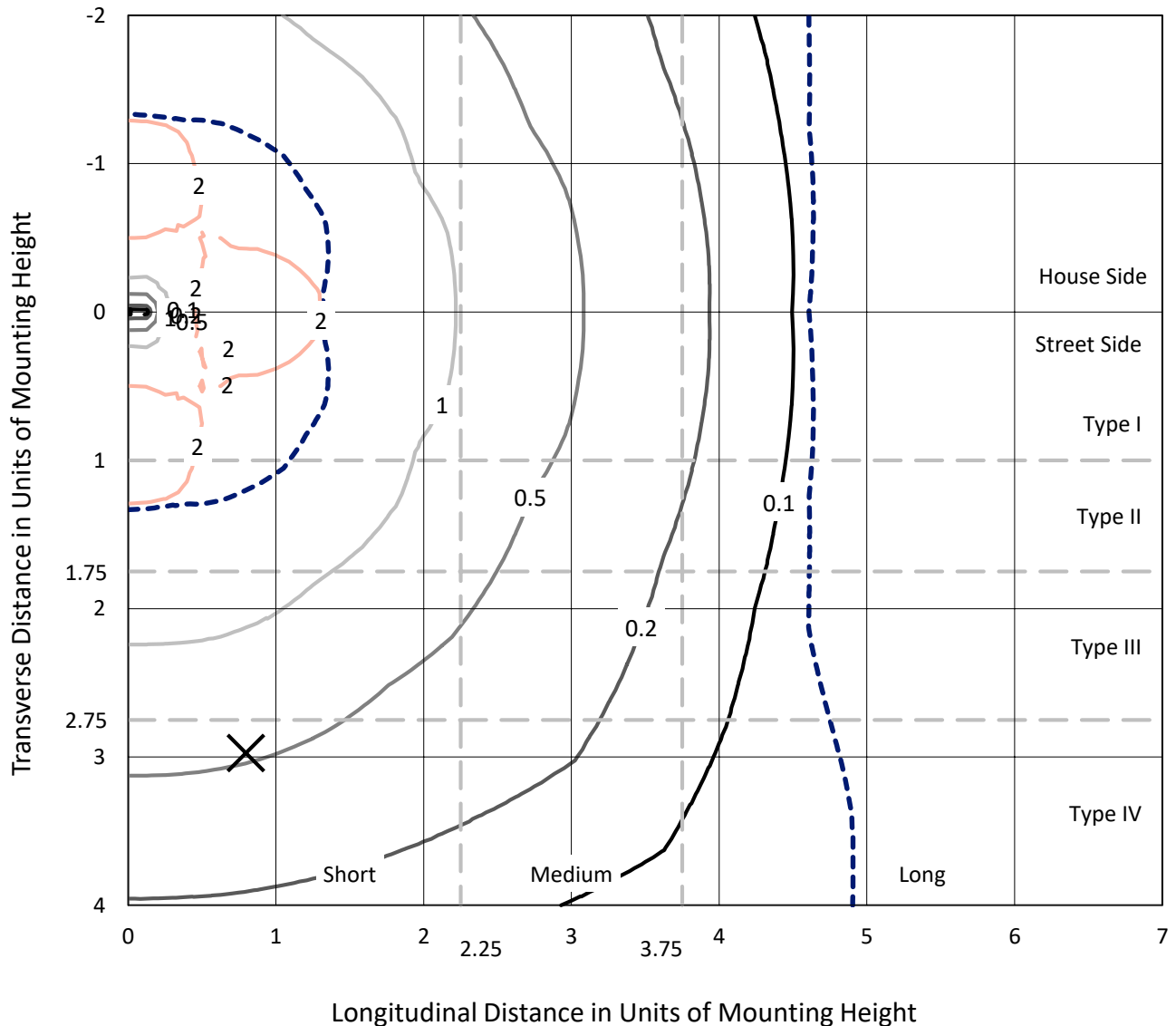
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

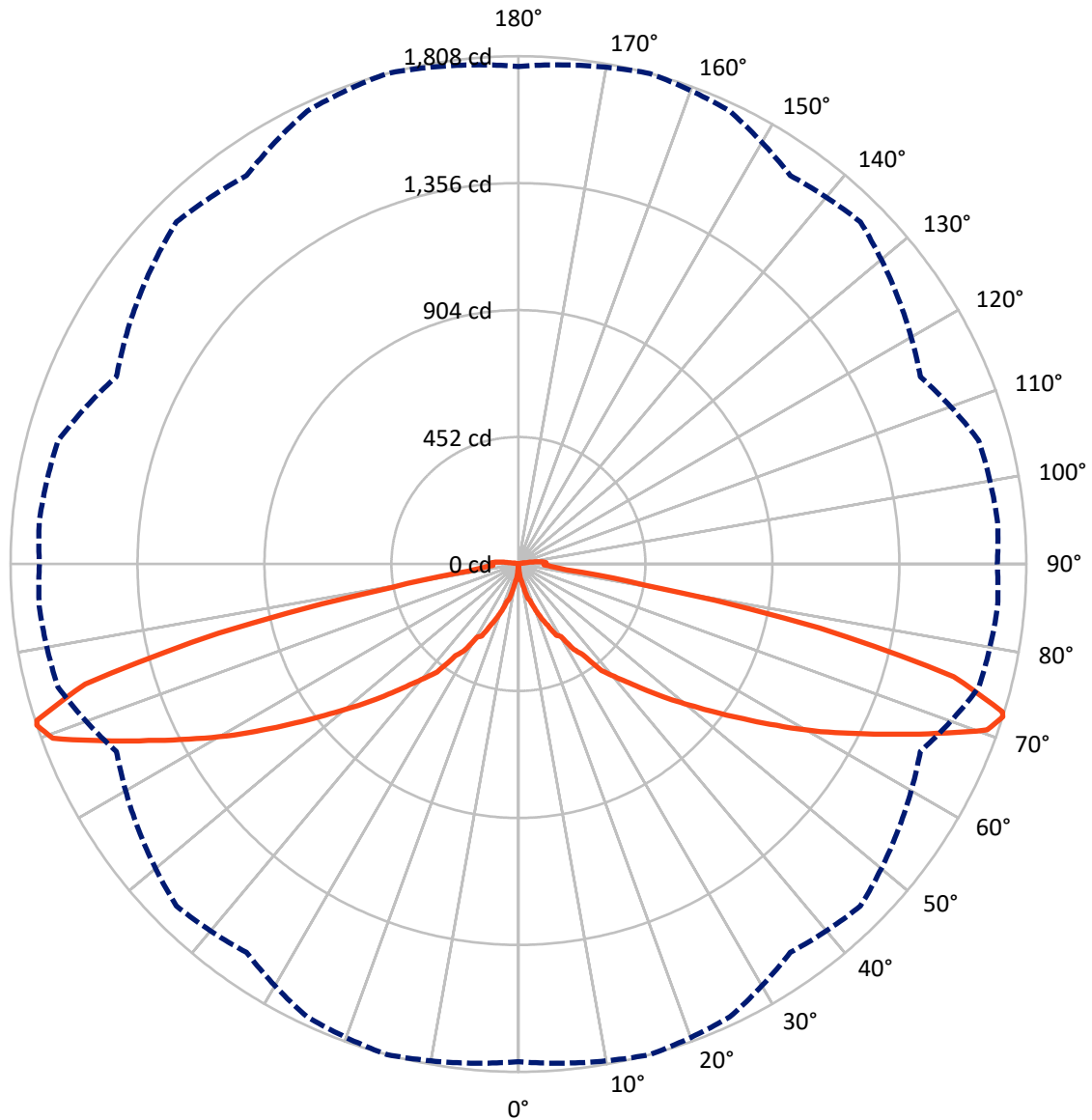
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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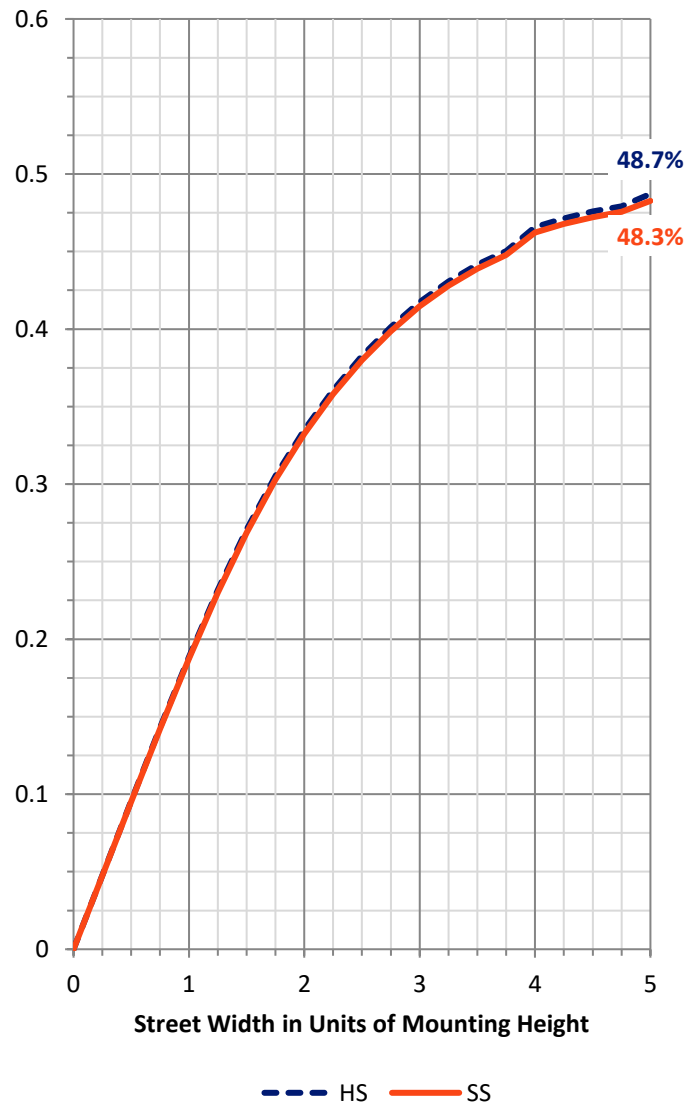
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2440.6	56.3	2496.9
	% Fixture	48.9	1.1	50.0
Street Side	Lumens	2440.6	56.3	2496.9
	% Fixture	48.9	1.1	50.0
Total	Lumens	4881.1	112.6	4993.7
	% Fixture	97.7	2.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.0
10°-20°	30.1	0.6
20°-30°	113.0	2.3
30°-40°	255.5	5.1
40°-50°	464.3	9.3
50°-60°	832.5	16.7
60°-70°	1407.0	28.2
70°-80°	1511.6	30.3
80°-90°	265.0	5.3
90°-100°	92.1	1.8
100°-110°	12.2	0.2
110°-120°	3.5	0.1
120°-130°	2.2	0.0
130°-140°	1.3	0.0
140°-150°	1.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4881.1	97.7
0°-180°	4993.7	100.0



REPORT NUMBER: P266083

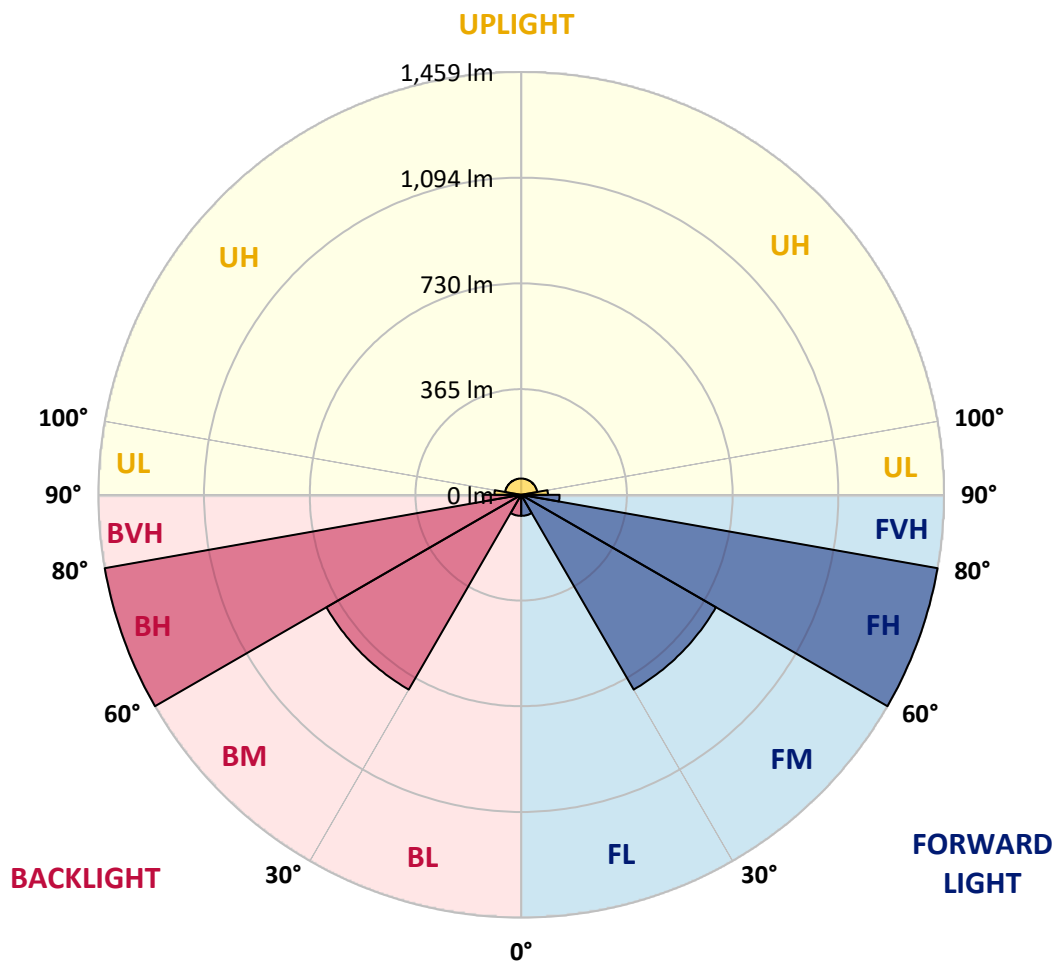
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	72.6	1.5			
FM (30°-60°)	776.1	15.5			
FH (60°-80°)	1459.3	29.2			G1/1800
FVH (80°-90°)	132.5	2.7			G2/225
BL (0°-30°)	72.6	1.5	B0/110		
BM (30°-60°)	776.1	15.5	B1/1000		
BH (60°-80°)	1459.3	29.2	B3/2500		G1/1800
BVH (80°-90°)	132.5	2.7			G2/225
UL (90°-100°)	92.1	1.8		U3/500	
UH (100°-180°)	56.3	1.1		U3/500	

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
2.5°	4.5	4.5	4.5	4.0	4.0	4.0	4.0	3.4	4.0	4.0	4.0
5°	25.3	26.4	23.5	23.0	10.7	8.4	5.1	4.0	4.0	4.0	4.0
7.5°	56.8	56.8	55.1	49.4	36.6	30.4	16.9	6.2	4.5	4.0	4.0
10°	65.1	64.0	61.3	61.3	59.0	54.0	32.0	15.2	6.7	6.2	6.2
12.5°	99.0	99.0	90.5	83.2	65.8	59.6	50.6	35.9	37.1	59.6	68.0
15°	132.1	132.1	127.0	117.9	93.9	69.7	91.0	106.8	90.5	97.1	97.7
17.5°	146.7	146.1	139.3	131.5	121.5	133.8	126.4	122.4	106.8	107.3	109.6
20°	203.3	201.2	175.9	161.2	141.7	171.3	150.6	141.0	180.4	193.9	198.3
22.5°	217.5	215.8	209.0	195.6	204.5	183.8	185.4	203.9	207.2	214.1	215.8
25°	257.4	256.7	241.0	216.9	235.4	210.2	238.8	218.0	231.6	269.8	284.4
27.5°	293.8	292.8	287.1	259.6	248.3	272.5	254.5	283.1	313.0	321.5	328.2
30°	329.3	327.6	299.0	302.9	276.9	288.9	310.2	315.2	326.4	348.4	349.5
32.5°	386.0	382.0	362.9	337.1	329.9	309.0	333.2	334.3	412.4	452.8	462.4
35°	442.8	438.8	396.2	384.4	359.1	366.9	356.7	407.9	440.0	478.2	484.9
37.5°	517.0	513.0	481.0	425.3	400.6	389.3	415.2	436.0	463.5	514.6	514.1
40°	557.4	555.7	526.4	482.7	441.1	428.1	441.6	460.2	503.0	549.0	554.1
42.5°	605.6	601.8	578.8	527.7	492.8	473.0	470.4	506.9	552.4	601.2	602.4
45°	664.1	658.5	642.3	574.8	540.5	524.8	524.3	562.5	615.2	664.1	669.7
47.5°	730.0	724.8	714.2	635.6	602.4	582.1	595.0	619.2	673.1	731.6	737.8
50°	800.7	797.9	788.9	713.7	686.0	653.4	668.1	683.3	747.8	804.1	805.7
52.5°	876.6	878.3	874.3	801.3	770.9	747.3	763.6	760.8	823.7	889.0	887.3
55°	971.4	971.4	973.1	913.7	883.8	842.8	870.9	864.2	921.5	979.3	977.6
57.5°	1078.2	1078.9	1083.8	1036.6	1011.4	977.6	996.2	983.4	1019.8	1070.4	1065.3
60°	1185.6	1190.1	1205.9	1185.6	1153.0	1124.3	1150.2	1085.5	1130.0	1176.6	1169.2
62.5°	1296.3	1303.0	1326.5	1322.7	1287.8	1275.5	1296.9	1212.5	1271.6	1282.2	1275.0
65°	1424.4	1426.1	1459.2	1461.0	1408.6	1432.7	1425.5	1331.6	1414.8	1405.3	1404.1
67.5°	1566.6	1578.3	1608.7	1594.6	1525.0	1545.2	1533.3	1444.0	1531.2	1528.3	1523.3
70°	1740.7	1745.8	1769.9	1718.3	1618.2	1645.8	1612.5	1537.3	1657.1	1677.2	1672.1
72°	1771.1	1783.5	1807.6	1779.0	1687.3	1721.6	1650.2	1578.3	1696.3	1712.1	1704.8
72.5°	1763.3	1773.3	1801.5	1777.2	1695.8	1732.9	1654.8	1577.2	1686.2	1702.5	1693.6
75°	1536.8	1535.7	1600.2	1645.2	1674.4	1783.9	1632.8	1489.6	1504.1	1501.3	1487.4
77.5°	978.3	1008.5	1095.2	1242.8	1460.4	1659.8	1446.9	1193.5	1069.3	996.8	965.9
80°	341.0	364.6	458.0	655.8	1018.7	1266.5	1013.6	658.5	438.3	340.5	336.0
82.5°	135.5	155.0	170.8	226.5	477.0	741.1	473.6	245.0	196.6	177.5	171.9
85°	107.3	110.1	121.5	129.3	173.1	239.4	210.2	148.3	138.2	124.1	121.5
87.5°	94.4	96.7	91.0	93.2	120.8	134.2	132.1	95.5	85.3	93.9	90.5
90°	99.0	100.0	91.5	92.7	122.4	137.7	127.6	89.9	88.8	98.4	95.0
92.5°	105.6	107.3	98.4	99.0	126.4	142.7	128.1	89.3	96.7	105.6	102.2
95°	86.5	88.8	82.6	84.8	110.1	127.6	114.1	79.8	86.0	102.9	99.4
97.5°	51.2	53.4	52.8	67.5	72.6	79.8	74.2	55.1	52.8	57.9	54.4
100°	9.1	11.1	23.5	44.3	41.1	34.9	38.2	34.2	22.5	11.8	8.4
102.5°	8.4	9.1	17.3	24.2	17.3	12.3	16.9	20.2	12.9	7.8	7.8
105°	8.4	9.1	9.5	10.2	5.6	5.1	7.2	11.8	7.8	7.8	7.8
107.5°	7.8	7.8	5.1	4.5	4.5	5.1	4.5	5.1	5.6	7.2	7.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	6.7	6.7	4.5	4.0	4.0	4.5	4.0	4.5	4.5	5.6	5.6
112.5°	5.1	5.1	3.4	3.4	3.4	4.0	3.4	3.4	4.0	4.5	4.5
115°	5.1	5.1	3.4	2.9	2.9	3.4	2.9	2.9	3.4	4.5	4.5
117.5°	4.5	4.5	2.9	2.2	2.2	2.2	2.2	2.2	3.4	4.5	4.5
120°	4.5	4.5	2.9	2.2	2.2	1.6	2.2	2.2	2.9	4.5	4.5
122.5°	4.5	4.5	2.9	1.6	1.6	1.6	1.6	2.2	2.9	4.0	4.5
125°	4.5	4.0	2.9	1.6	1.6	1.6	1.6	1.6	2.9	4.0	4.0
127.5°	4.0	4.0	2.9	1.6	1.6	1.1	1.1	1.6	2.2	3.4	4.0
130°	4.0	4.0	2.9	1.6	1.6	1.1	1.1	1.1	2.2	3.4	3.4
132.5°	3.4	3.4	2.2	1.1	1.1	1.1	1.1	1.1	1.6	2.9	2.9
135°	2.9	2.9	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
137.5°	2.9	2.9	2.2	1.6	1.1	1.1	1.1	1.1	1.1	1.6	1.6
140°	2.9	2.9	2.2	1.6	1.1	1.1	1.1	1.1	1.6	1.6	1.6
142.5°	2.9	2.9	2.2	1.6	1.1	1.1	1.1	1.1	1.6	1.6	1.6
145°	2.9	2.9	2.2	1.6	1.1	1.1	1.1	1.6	1.6	2.2	2.2
147.5°	2.9	2.9	2.2	1.6	1.1	0.5	1.1	1.6	2.2	2.2	2.2
150°	2.9	2.9	2.2	1.1	0.5	0.0	0.5	1.1	1.6	2.2	2.2
152.5°	2.2	2.2	1.6	0.5	0.5	0.0	0.0	0.5	1.6	1.6	1.6
155°	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)