

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: P254258

Luminaire Tested: **LXF.LXT-AF24-40-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254258
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-AF24-40-D-U-5WQ-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 4538.8 lumens
Efficiency: N/A
Efficacy: 113.5 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

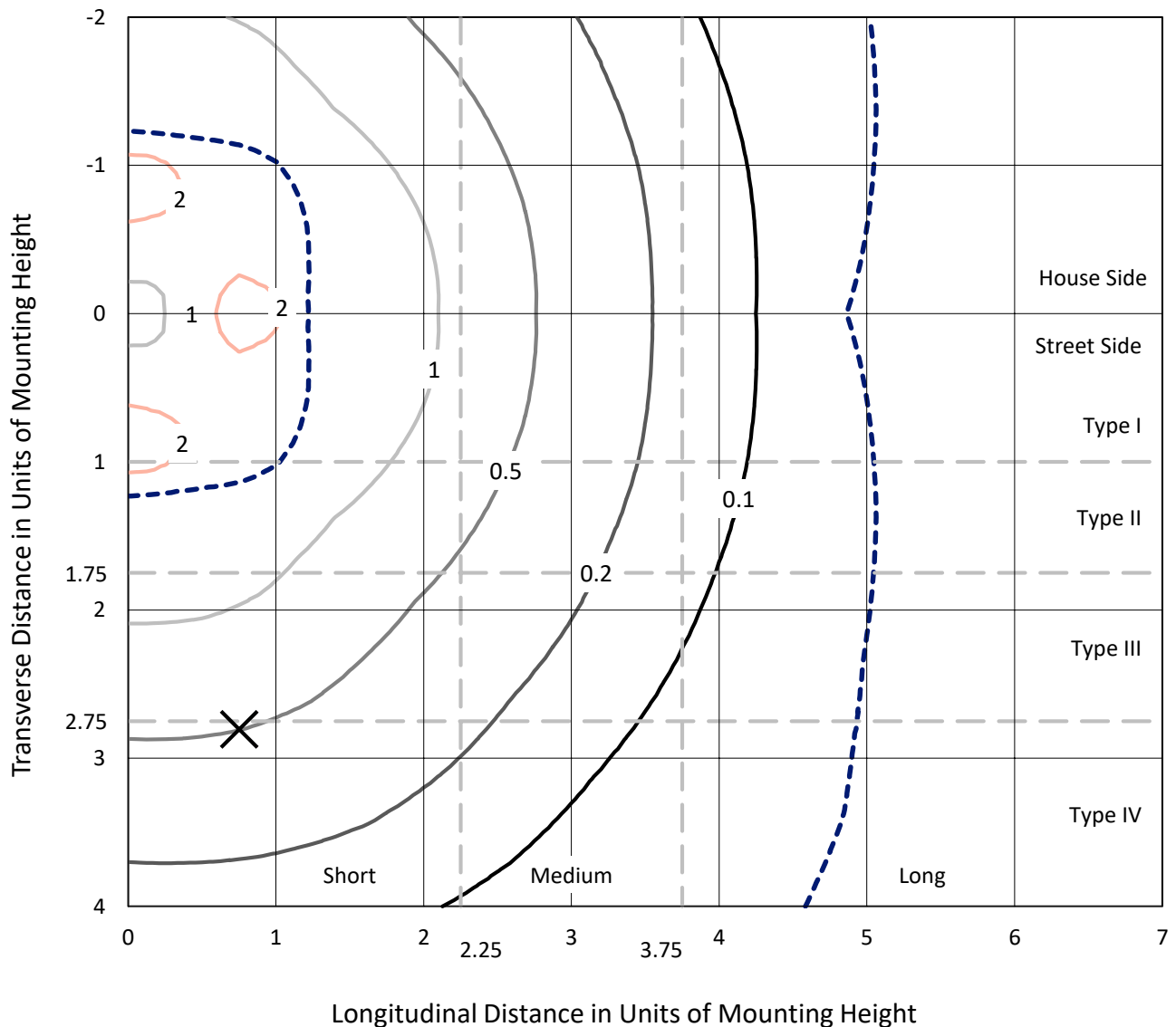
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

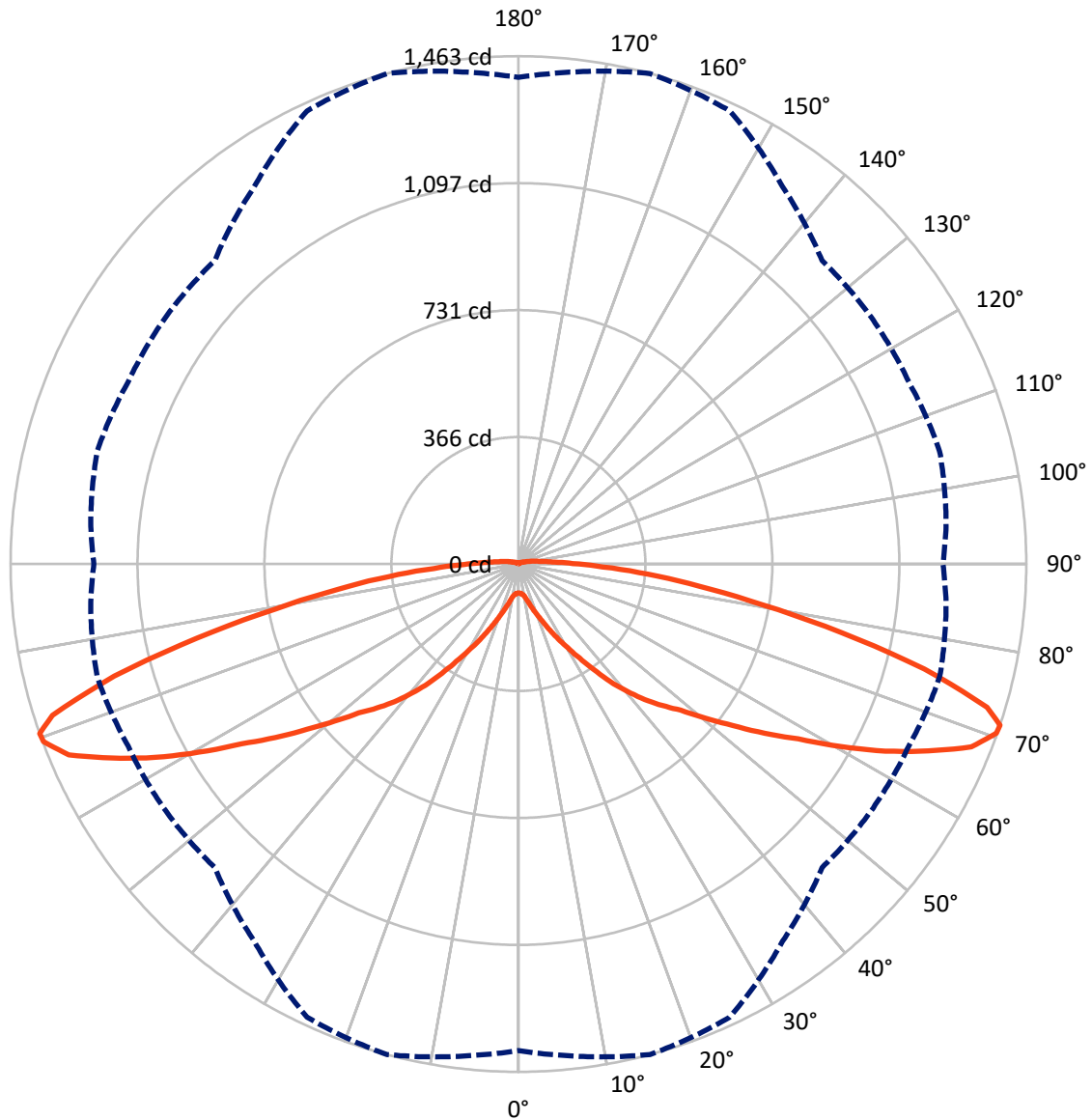
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 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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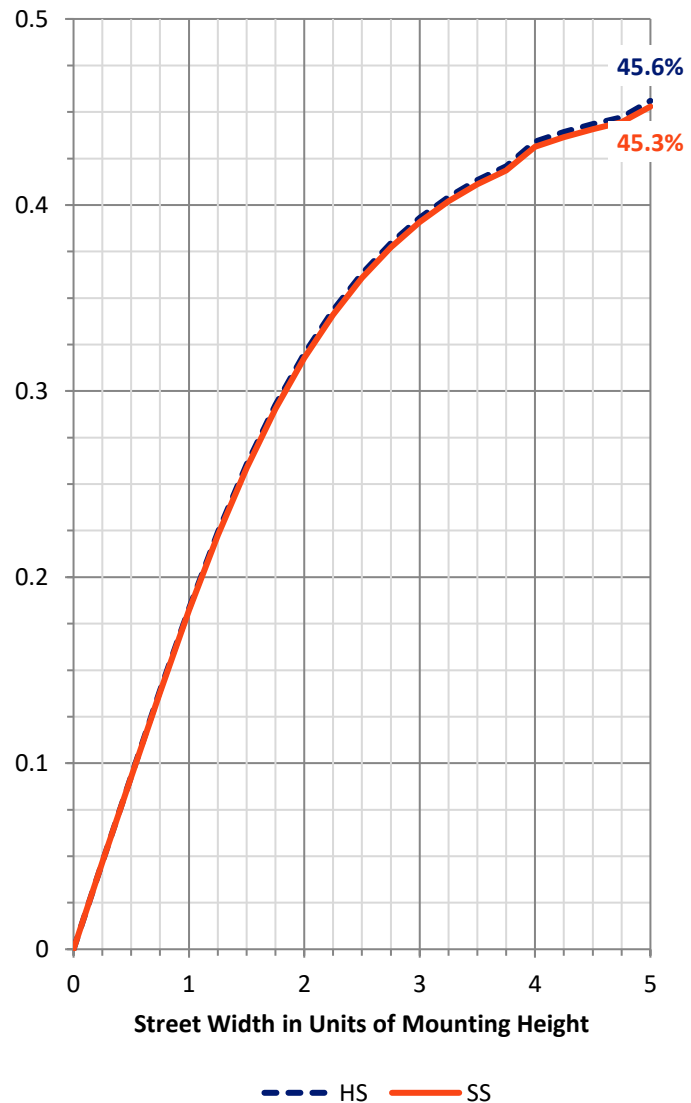
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2174.7	94.7	2269.4
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	2174.7	94.7	2269.4
	% Fixture	47.9	2.1	50.0
Total	Lumens	4349.4	189.3	4538.8
	% Fixture	95.8	4.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.2
10°-20°	33.7	0.7
20°-30°	95.2	2.1
30°-40°	221.9	4.9
40°-50°	414.3	9.1
50°-60°	739.2	16.3
60°-70°	1211.8	26.7
70°-80°	1133.5	25.0
80°-90°	491.6	10.8
90°-100°	124.2	2.7
100°-110°	36.2	0.8
110°-120°	14.9	0.3
120°-130°	7.9	0.2
130°-140°	4.3	0.1
140°-150°	1.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4349.4	95.8
0°-180°	4538.8	100.0

Coefficient of Utilization



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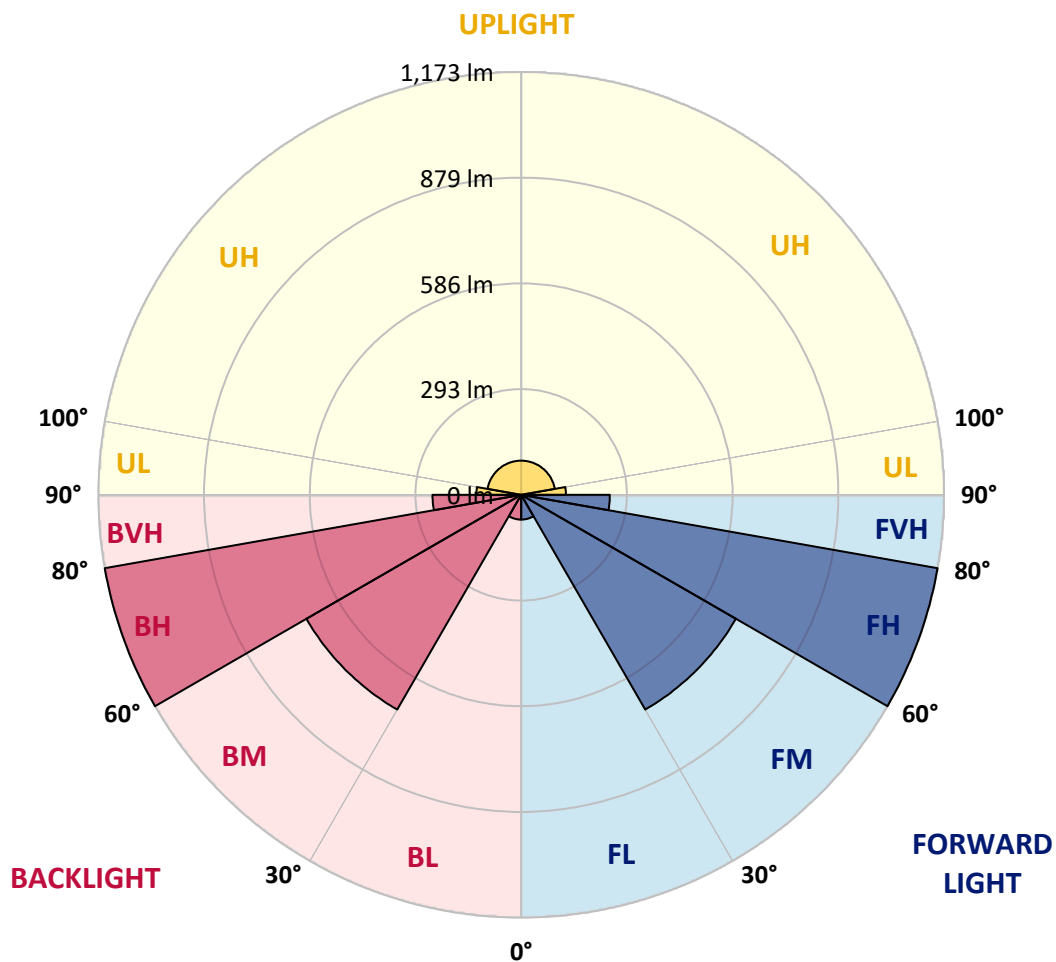
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	68.6	1.5			
FM (30°-60°)	687.7	15.2			
FH (60°-80°)	1172.6	25.8			G1/1800
FVH (80°-90°)	245.8	5.4			G3/500
BL (0°-30°)	68.6	1.5	B0/110		
BM (30°-60°)	687.7	15.2	B1/1000		
BH (60°-80°)	1172.6	25.8	B3/2500		G1/1800
BVH (80°-90°)	245.8	5.4			G3/500
UL (90°-100°)	124.2	2.7		U3/500	
UH (100°-180°)	94.7	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°	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
2.5°	84.1	84.1	84.1	84.6	84.6	84.6	84.1	84.1	83.6	83.6	83.6
5°	85.7	85.7	85.7	85.7	85.7	85.7	85.1	85.1	84.6	84.6	84.6
7.5°	88.3	88.3	88.3	88.3	88.3	87.8	87.3	86.7	86.7	86.7	86.7
10°	93.9	93.9	93.4	92.9	92.4	91.3	91.3	90.8	90.8	90.8	91.3
12.5°	105.7	105.7	104.1	101.6	98.5	97.5	97.0	98.0	99.5	100.0	101.1
15°	121.1	121.1	119.0	114.9	110.3	106.2	107.2	110.3	112.8	114.4	115.4
17.5°	140.0	140.0	137.0	131.3	124.7	122.1	121.6	125.7	129.8	132.9	134.9
20°	161.1	161.1	157.0	149.2	142.6	141.1	140.6	143.6	149.8	154.5	156.5
22.5°	186.7	187.2	181.1	170.8	164.2	161.1	160.6	164.7	174.4	181.1	183.6
25°	218.5	218.5	211.9	197.5	188.2	183.1	184.1	191.9	205.7	214.9	216.5
27.5°	253.9	252.9	244.2	228.8	215.4	207.8	210.3	222.1	239.1	252.9	254.9
30°	293.5	292.5	280.1	263.7	244.7	235.5	239.6	256.5	279.6	299.1	301.7
32.5°	339.1	338.1	322.6	301.7	276.5	264.2	271.9	296.0	324.2	349.3	352.9
35°	394.0	392.9	372.5	343.2	312.4	297.6	307.8	337.1	370.4	400.7	405.3
37.5°	451.4	451.4	429.9	392.4	351.9	333.5	344.7	378.1	417.6	447.3	452.5
40°	503.8	503.8	482.2	445.8	396.6	371.9	383.7	418.1	453.5	480.2	485.3
42.5°	552.0	553.5	533.6	496.0	443.2	415.0	422.2	452.5	488.9	518.6	523.8
45°	590.4	593.5	581.2	545.8	493.0	459.6	462.3	496.6	539.7	571.0	577.1
47.5°	637.2	637.7	628.9	595.6	545.8	509.4	511.5	552.0	599.2	631.5	634.6
50°	703.4	704.9	697.1	659.2	606.9	565.9	576.1	618.2	676.7	711.1	712.1
52.5°	776.7	778.3	772.6	737.8	677.7	638.2	654.1	702.9	760.8	789.5	788.5
55°	853.7	857.2	860.3	828.0	764.3	723.8	745.4	796.2	850.1	878.3	875.2
57.5°	939.3	941.9	950.1	921.4	864.4	824.9	852.1	902.9	957.8	985.0	980.4
60°	1056.8	1060.9	1067.6	1028.1	969.0	937.7	967.5	1021.4	1077.3	1093.7	1087.6
62.5°	1163.5	1168.1	1186.6	1156.9	1079.9	1047.1	1086.6	1138.3	1185.1	1192.8	1182.5
65°	1267.6	1272.8	1297.9	1272.2	1195.8	1149.2	1190.7	1233.3	1276.8	1282.5	1272.2
67.5°	1362.6	1376.4	1406.7	1371.3	1285.1	1231.7	1255.4	1289.7	1328.2	1321.6	1308.7
70°	1411.3	1429.3	1460.1	1435.4	1328.7	1248.1	1261.0	1271.2	1289.7	1280.4	1269.2
71°	1401.5	1420.0	1462.6	1440.0	1326.2	1236.3	1239.9	1240.4	1255.9	1236.3	1222.5
72.5°	1331.8	1351.2	1411.3	1414.3	1300.5	1202.5	1186.6	1173.7	1165.6	1130.7	1119.9
75°	1114.8	1140.4	1207.6	1246.1	1182.5	1087.1	1059.4	1016.3	992.7	952.7	950.1
77.5°	867.5	884.4	950.1	1008.5	991.1	929.6	898.3	856.2	831.6	800.3	781.8
80°	646.4	652.0	711.6	777.7	797.7	773.1	750.0	712.1	682.8	652.5	636.7
82.5°	459.6	470.5	524.3	596.1	643.3	644.4	627.9	585.3	552.5	520.7	508.4
85°	310.9	321.6	374.0	449.9	511.0	537.2	520.7	464.8	415.5	378.6	370.9
87.5°	195.0	205.2	243.2	310.9	391.4	431.5	412.5	343.2	287.2	253.4	246.7
90°	127.8	133.9	156.5	200.6	269.9	325.2	303.7	239.1	191.4	161.1	158.0
92.5°	88.3	90.3	104.1	129.8	179.5	224.2	208.3	161.1	125.7	104.1	101.1
95°	63.1	65.2	73.9	89.3	120.1	147.2	138.5	109.3	85.7	70.8	68.7
97.5°	46.6	48.2	56.0	66.2	84.6	99.0	92.9	77.4	62.6	51.2	49.7
100°	36.4	36.9	43.6	51.2	63.1	70.8	66.2	58.0	48.2	40.0	39.0
102.5°	28.7	29.3	34.4	40.5	48.7	54.4	50.7	44.6	37.4	31.8	31.3
105°	22.6	23.1	26.7	32.3	39.0	42.6	40.0	34.9	28.7	24.7	24.7
107.5°	18.0	18.5	21.1	25.7	31.3	34.4	32.3	27.2	22.6	19.5	19.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	14.8	14.8	16.9	20.6	25.7	28.2	26.2	21.6	18.0	15.9	15.3
112.5°	12.3	12.3	13.8	16.9	21.1	23.1	21.6	17.5	14.3	12.8	12.8
115°	10.2	10.7	11.3	14.3	18.0	19.5	18.0	14.8	11.8	10.7	10.7
117.5°	9.2	9.2	10.2	12.3	15.3	16.9	15.3	12.8	10.2	9.7	9.7
120°	8.2	8.2	8.7	10.2	13.3	14.3	13.3	10.7	9.2	8.7	8.7
122.5°	7.7	7.7	7.7	9.2	11.3	12.8	11.8	9.7	8.2	7.7	7.7
125°	7.2	7.2	7.2	8.2	10.2	10.7	10.2	8.7	7.2	7.2	7.2
127.5°	7.2	7.2	7.2	7.7	8.7	9.7	9.2	7.7	6.6	6.6	6.6
130°	6.6	6.6	6.6	7.2	7.7	8.2	7.7	7.2	6.6	6.6	6.6
132.5°	6.1	6.1	6.1	6.1	6.6	7.2	6.6	6.1	6.1	6.1	6.1
135°	5.6	5.6	5.6	5.1	5.6	6.1	5.6	5.1	5.1	5.6	5.6
137.5°	5.1	5.1	4.6	4.6	4.6	5.1	4.6	4.6	4.6	4.6	5.1
140°	4.6	4.6	4.1	4.1	4.1	4.1	3.6	3.6	3.6	4.1	4.1
142.5°	4.1	3.6	3.6	3.1	3.1	3.1	3.1	2.6	3.1	3.6	3.6
145°	3.1	3.1	3.1	2.6	2.6	2.6	2.0	2.0	2.6	2.6	2.6
147.5°	2.6	2.6	2.0	2.0	1.5	1.5	1.5	1.5	2.0	2.0	2.0
150°	2.0	2.0	1.5	1.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5
152.5°	1.5	1.5	1.0	1.0	1.0	0.5	0.5	0.5	1.0	1.0	1.0
155°	1.0	1.0	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	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)