

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: LUMARK

Report Number: P511363

Luminaire Tested: **WPMLED15S-30W\_SWITCH-4000K**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (EVERFINE)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WPMLED15S-30W\_SWITCH-4000K  
Description: WALLPACK SELECTABLE CCT  
Light Source: (240) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4121 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.13m x L: 0.26m x H: 0.9m)  
IES Classification: Type IV - Short  
BUG Rating: B1 - U3 - G3

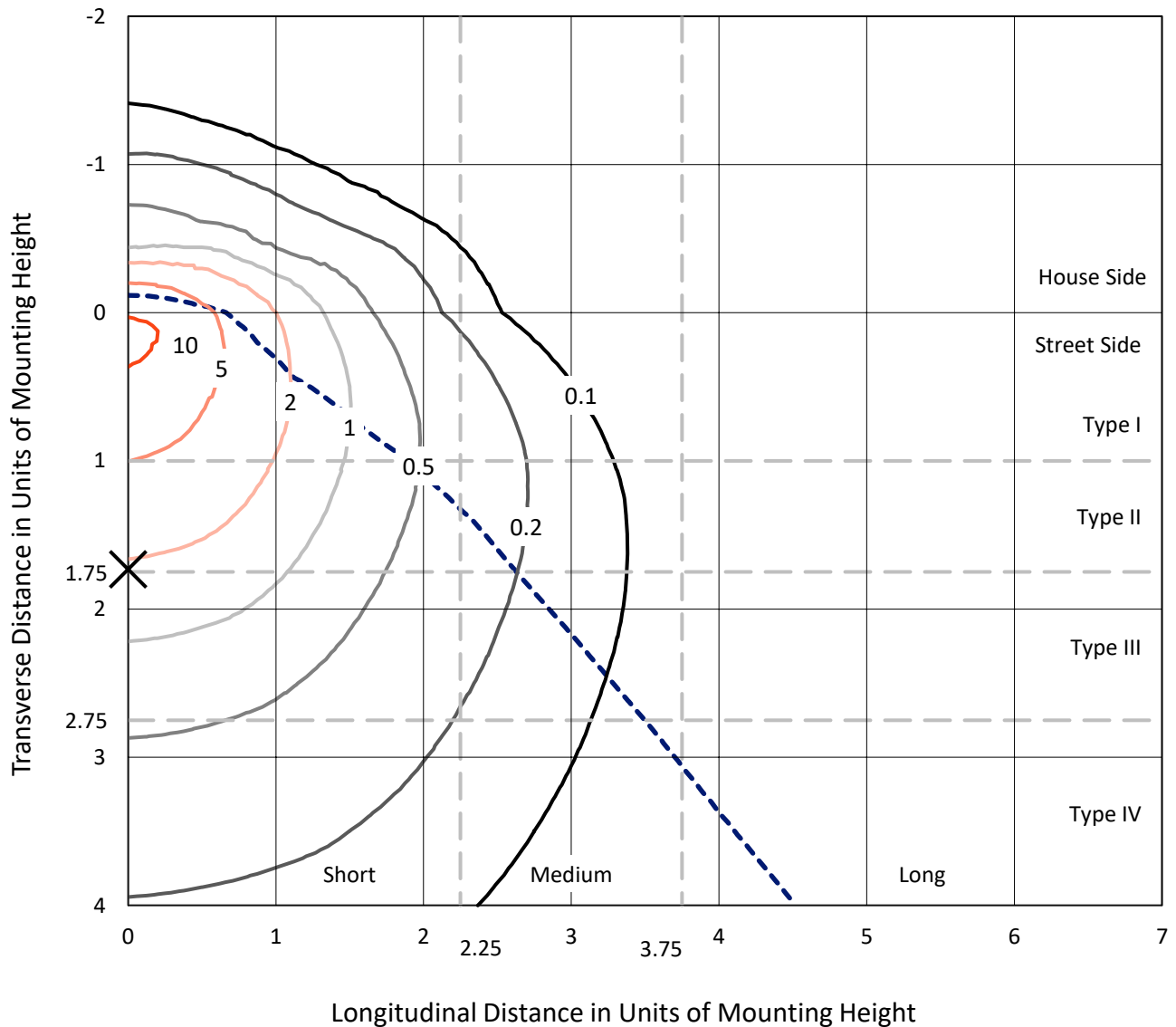
Input Watts (W): 28.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

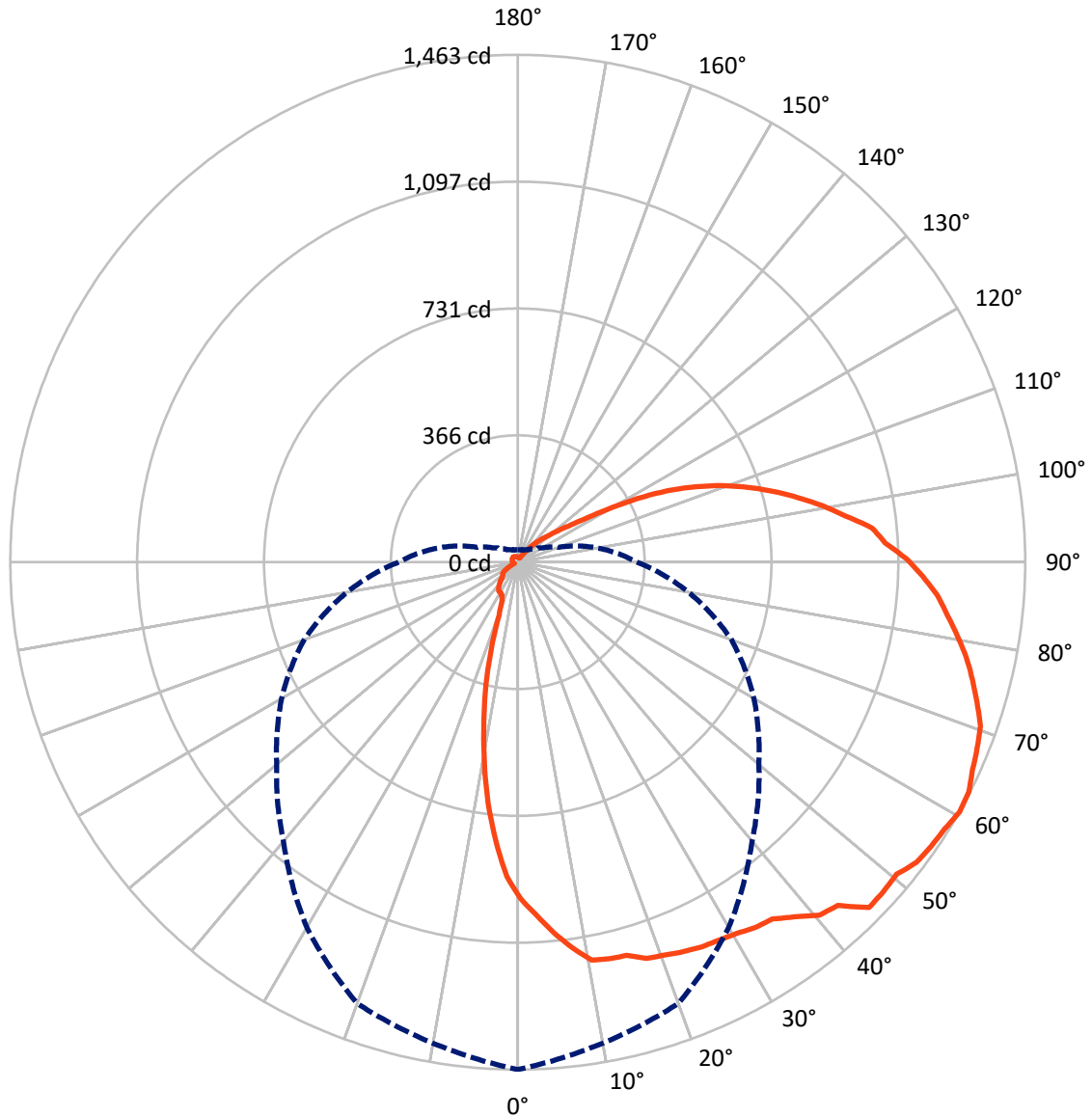
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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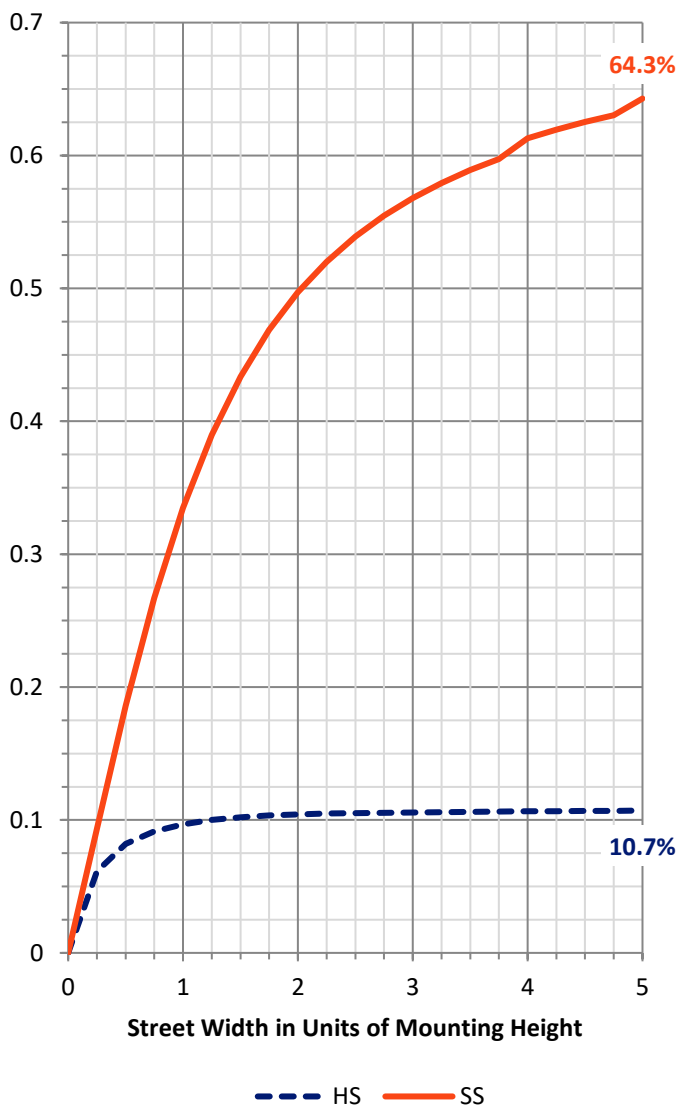
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	450.9	55.5	506.5
	% Fixture	10.9	1.3	12.3
<b>Street Side</b>	Lumens	2928.0	686.6	3614.6
	% Fixture	71.1	16.7	87.7
<b>Total</b>	Lumens	3378.9	742.1	4121.0
	% Fixture	82.0	18.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.3	2.2
10°-20°	235.5	5.7
20°-30°	328.9	8.0
30°-40°	400.6	9.7
40°-50°	458.3	11.1
50°-60°	497.1	12.1
60°-70°	505.9	12.3
70°-80°	466.5	11.3
80°-90°	396.8	9.6
90°-100°	308.6	7.5
100°-110°	212.7	5.2
110°-120°	118.0	2.9
120°-130°	52.5	1.3
130°-140°	25.6	0.6
140°-150°	12.1	0.3
150°-160°	7.0	0.2
160°-170°	4.2	0.1
170°-180°	1.4	0.0
0°-90°	3378.9	82.0
0°-180°	4121.0	100.0

**Coefficient of Utilization**



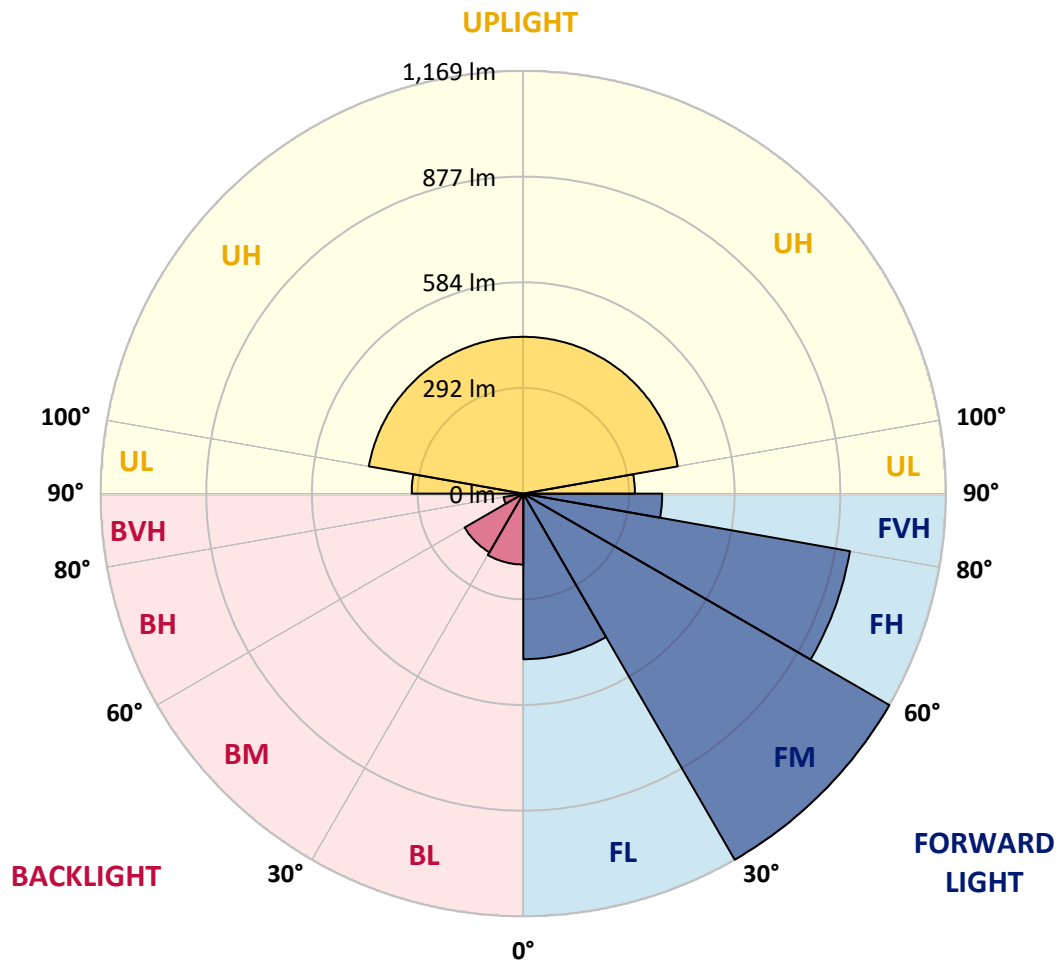
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.8	11.1			
FM (30°-60°)	1168.8	28.4			
FH (60°-80°)	917.3	22.3			G1/1800
FVH (80°-90°)	384.2	9.3			G3/500
BL (0°-30°)	196.0	4.8	B1/500		
BM (30°-60°)	187.1	4.5	B0/220		
BH (60°-80°)	55.2	1.3	B0/110		G0/110
BVH (80°-90°)	12.6	0.3			G1/100
UL (90°-100°)	308.6	7.5		U3/500	
UH (100°-180°)	433.5	10.5		U3/500	

**BUG Rating: B1-U3-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3
2.5°	1018.4	1014.5	1010.6	1009.2	1008.7	1005.7	1000.4	991.9	974.1	956.2	942.7
5°	1072.1	1067.7	1063.3	1058.9	1054.4	1041.5	1020.2	999.2	979.1	959.1	940.0
7.5°	1121.5	1115.5	1109.4	1093.8	1075.0	1059.0	1046.0	1027.5	992.6	957.7	918.5
10°	1166.6	1160.4	1154.1	1142.4	1128.8	1103.9	1067.6	1029.1	984.0	939.0	888.8
12.5°	1172.9	1161.5	1150.0	1147.2	1147.3	1126.9	1085.9	1042.4	991.1	939.7	868.7
15°	1176.3	1159.4	1142.5	1133.2	1126.4	1109.3	1082.1	1046.7	987.0	927.2	838.7
17.5°	1200.9	1177.9	1154.9	1143.8	1136.8	1119.2	1091.2	1052.2	980.5	908.9	806.1
20°	1209.1	1196.0	1182.9	1163.0	1141.0	1114.5	1083.7	1040.8	961.6	882.5	765.4
22.5°	1219.9	1203.7	1187.6	1163.7	1137.3	1107.9	1075.4	1029.5	943.2	856.9	723.8
25°	1229.1	1216.6	1204.2	1173.8	1137.6	1099.7	1060.2	1008.9	921.9	834.8	686.0
27.5°	1234.1	1221.1	1208.2	1169.5	1122.2	1077.1	1034.2	979.8	891.1	802.3	642.5
30°	1242.2	1224.3	1206.5	1160.2	1104.4	1054.8	1011.5	956.7	867.6	778.4	605.2
32.5°	1255.8	1233.2	1210.6	1159.1	1098.0	1040.3	985.9	923.0	834.6	746.2	572.2
35°	1263.4	1239.4	1215.4	1160.9	1096.2	1033.7	973.4	903.6	805.4	707.2	529.6
37.5°	1297.0	1262.4	1227.8	1160.4	1082.0	1007.3	936.3	859.4	764.7	670.1	488.8
40°	1338.1	1296.3	1254.5	1171.4	1074.6	987.6	910.5	828.3	730.7	633.2	449.6
42.5°	1352.8	1315.8	1278.8	1188.3	1079.8	978.9	885.5	791.5	695.8	600.1	417.1
45°	1420.1	1365.1	1310.1	1205.8	1085.1	975.1	875.9	775.6	672.3	568.9	385.6
47.5°	1418.6	1369.3	1320.1	1213.2	1087.2	969.5	860.0	750.2	639.1	527.9	355.0
50°	1414.6	1370.8	1326.9	1216.5	1083.9	956.3	833.8	714.3	603.8	493.3	330.4
52.5°	1438.6	1383.4	1328.2	1213.7	1079.4	951.9	831.1	709.1	583.2	457.3	306.5
55°	1445.8	1391.3	1336.8	1214.6	1069.7	937.2	817.0	692.7	556.1	419.5	282.5
57.5°	1450.9	1398.2	1345.4	1213.4	1055.0	918.0	802.5	678.8	530.5	382.1	258.9
60°	1462.7	1408.2	1353.7	1216.1	1050.6	907.2	785.9	655.8	499.6	343.3	234.4
62.5°	1458.9	1410.1	1361.2	1222.5	1053.8	904.1	773.5	633.9	467.4	300.9	207.8
65°	1440.6	1396.5	1352.4	1214.6	1045.4	895.4	764.4	620.5	437.9	255.3	179.0
67.5°	1428.5	1385.9	1343.3	1198.9	1020.6	867.4	739.5	595.9	405.4	214.9	152.7
70°	1414.8	1368.9	1323.0	1176.7	997.0	843.6	716.4	571.6	373.7	175.9	127.0
72.5°	1384.3	1344.1	1303.9	1155.7	971.5	813.6	682.1	534.2	337.5	140.7	103.6
75°	1354.0	1311.4	1268.7	1122.9	942.7	785.3	650.7	501.0	305.8	110.7	84.1
77.5°	1321.9	1278.7	1235.5	1091.5	913.8	754.7	614.1	461.8	274.3	86.8	68.0
80°	1284.6	1239.1	1193.5	1050.6	875.4	716.4	573.7	422.6	246.1	69.6	56.0
82.5°	1247.0	1200.2	1153.5	1011.6	838.1	678.0	531.6	381.3	219.5	57.7	47.5
85°	1212.9	1167.4	1122.0	979.0	803.5	640.1	488.6	338.8	193.8	48.8	40.9
87.5°	1167.9	1119.8	1071.7	931.5	760.6	598.9	446.2	299.4	169.8	40.3	35.2
90°	1120.2	1071.7	1023.3	886.1	719.3	559.5	406.8	263.5	148.6	33.6	30.7
92.5°	1060.6	1014.4	968.2	836.1	675.4	518.1	364.1	224.3	127.2	30.1	28.2
95°	1026.4	972.3	918.2	786.5	628.9	474.8	324.1	190.7	109.5	28.2	26.6
97.5°	954.6	907.8	861.0	734.9	582.4	433.3	287.5	161.3	94.2	27.1	25.6
100°	893.0	843.9	794.7	675.2	532.3	391.8	253.8	136.7	81.8	27.0	25.2
102.5°	827.8	781.8	735.8	622.0	485.7	352.8	223.3	115.2	71.2	27.1	25.0
105°	763.8	717.1	670.5	562.7	434.5	311.5	193.8	96.8	62.1	27.3	24.8
107.5°	697.2	652.1	607.0	505.2	384.4	271.8	167.5	82.3	54.9	27.4	24.5
110°	630.2	583.4	536.6	440.8	328.6	229.0	141.9	71.1	49.1	27.2	24.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	556.8	509.9	463.1	375.4	274.0	188.6	119.3	62.8	44.7	26.7	23.4
115°	477.4	432.8	388.1	310.6	222.2	151.3	98.0	54.5	40.3	26.0	22.7
117.5°	390.6	353.0	315.5	253.3	182.8	125.6	81.7	46.1	35.7	25.2	21.9
120°	298.4	271.1	243.9	199.2	148.8	105.3	68.9	39.6	31.8	24.1	21.0
122.5°	225.7	209.3	192.9	161.4	124.9	91.1	60.0	35.1	28.8	22.6	19.9
125°	178.8	169.7	160.6	136.3	106.9	78.9	52.4	31.2	26.3	21.3	19.0
127.5°	146.9	141.1	135.4	115.6	91.2	67.7	45.3	27.5	23.7	20.0	18.2
130°	121.4	117.7	114.0	96.8	75.1	55.4	37.6	23.7	21.3	18.8	17.4
132.5°	102.1	99.7	97.3	81.6	61.5	44.7	31.0	20.4	19.1	17.8	16.7
135°	87.0	84.2	81.4	67.6	50.2	36.3	26.0	18.0	17.4	16.8	16.1
137.5°	70.6	67.5	64.4	53.6	40.3	29.7	22.1	16.2	16.1	15.9	15.6
140°	55.2	52.7	50.2	42.0	32.0	24.3	18.9	14.9	15.0	15.1	15.0
142.5°	40.9	39.7	38.4	32.5	25.0	19.7	16.7	14.4	14.3	14.1	14.3
145°	29.9	29.1	28.2	24.5	19.8	16.8	15.5	14.3	13.8	13.2	13.7
147.5°	23.8	23.1	22.4	19.7	16.4	14.7	14.6	14.3	13.5	12.7	13.5
150°	19.6	18.9	18.2	16.3	14.1	13.3	14.0	14.4	13.6	12.9	13.6
152.5°	16.6	16.0	15.5	14.6	13.5	13.2	13.5	13.7	13.4	13.0	13.8
155°	14.2	13.7	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13.2	13.9
157.5°	12.5	12.6	12.6	13.2	13.9	14.1	13.5	13.2	13.3	13.4	14.0
160°	12.9	13.1	13.2	13.7	14.3	14.3	13.7	13.3	13.4	13.5	14.1
162.5°	14.7	14.7	14.6	14.5	14.5	14.2	13.8	13.4	13.6	13.7	14.2
165°	15.2	15.0	14.8	14.4	13.9	13.6	13.6	13.6	13.7	13.8	14.3
167.5°	14.8	14.5	14.2	14.0	13.7	13.6	13.7	13.7	13.8	13.9	14.4
170°	13.9	13.9	13.8	13.8	13.8	13.8	13.9	13.9	14.0	14.0	14.4
172.5°	14.2	14.1	14.1	14.0	14.0	14.1	14.1	14.1	14.1	14.1	14.5
175°	14.5	14.4	14.4	14.3	14.3	14.3	14.3	14.2	14.2	14.2	14.5
177.5°	14.8	14.8	14.7	14.6	14.6	14.5	14.4	14.3	14.3	14.3	14.6
180°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2





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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	970.3	970.3	970.3	970.3	970.3	970.3	970.3	970.3
2.5°	929.2	921.5	915.8	909.6	902.9	898.9	902.9	906.9
5°	921.0	897.1	871.5	848.6	828.2	812.0	808.8	805.5
7.5°	879.3	839.6	799.7	767.0	741.4	719.7	709.6	699.6
10°	838.7	785.4	731.0	684.2	644.9	611.8	597.6	583.3
12.5°	797.7	726.9	656.2	594.3	541.1	497.8	484.2	470.7
15°	750.1	662.0	574.0	501.1	443.2	395.9	380.3	364.8
17.5°	703.3	601.2	499.2	416.6	353.3	300.6	279.4	258.3
20°	648.3	536.3	425.9	334.8	262.8	203.5	182.2	160.8
22.5°	590.7	469.5	352.3	260.1	193.0	140.2	130.5	120.9
25°	537.2	407.2	283.5	198.8	153.1	117.8	113.5	109.2
27.5°	482.6	351.8	230.6	156.8	130.2	109.6	106.8	104.0
30°	432.0	306.0	195.7	132.7	116.8	104.5	102.6	100.7
32.5°	398.2	278.6	177.1	120.9	109.8	101.4	100.9	100.4
35°	352.0	243.5	158.1	111.7	104.4	98.8	98.4	98.0
37.5°	307.6	210.7	142.1	104.8	98.9	94.2	92.8	91.4
40°	266.1	180.6	127.9	98.4	92.3	87.1	85.0	82.8
42.5°	234.1	157.5	116.3	92.2	85.1	79.2	76.8	74.4
45°	202.4	134.3	104.6	86.0	78.5	72.2	69.3	66.5
47.5°	182.1	120.3	95.6	79.4	71.6	65.1	62.5	59.9
50°	167.6	110.1	87.7	72.6	64.8	58.8	58.0	57.3
52.5°	155.6	101.8	80.3	65.9	58.4	53.1	54.4	55.6
55°	145.4	95.0	73.4	59.2	52.4	47.7	49.5	51.3
57.5°	135.6	88.5	66.8	52.9	46.8	42.5	43.2	44.0
60°	125.5	82.1	60.5	46.9	41.5	37.2	36.7	36.1
62.5°	114.7	75.5	54.3	41.1	35.9	31.7	30.3	28.9
65°	102.7	68.3	48.0	35.0	29.1	24.4	23.0	21.7
67.5°	90.6	60.8	41.7	28.4	20.7	14.5	12.8	11.1
70°	78.1	52.8	35.5	23.3	16.4	11.2	11.3	11.4
72.5°	66.5	45.4	29.7	19.6	14.9	11.5	11.6	11.7
75°	57.4	40.4	26.7	18.0	14.5	11.8	12.0	12.1
77.5°	49.3	35.9	24.3	17.1	14.3	12.2	12.4	12.5
80°	42.4	31.7	21.8	16.0	14.0	12.5	12.7	12.9
82.5°	37.2	28.4	20.1	15.2	13.9	12.9	13.1	13.3
85°	33.0	25.8	18.9	14.9	13.9	13.2	13.5	13.7
87.5°	30.1	24.2	18.1	14.7	14.0	13.6	13.9	14.1
90°	27.7	22.9	17.5	14.6	14.2	14.0	14.2	14.5
92.5°	26.2	22.1	17.2	14.6	14.4	14.3	14.6	14.9
95°	25.1	21.3	16.9	14.6	14.6	14.6	14.9	15.2
97.5°	24.2	20.7	16.7	14.7	14.8	14.9	15.2	15.5
100°	23.5	20.3	16.5	14.8	15.0	15.2	15.6	15.9
102.5°	22.8	19.8	16.4	14.9	15.2	15.5	15.9	16.2
105°	22.2	19.3	16.3	14.9	15.4	15.8	16.1	16.5
107.5°	21.5	18.8	16.2	15.1	15.6	16.1	16.4	16.8
110°	20.8	18.4	16.1	15.3	15.9	16.4	16.7	17.0



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	20.2	17.9	16.1	15.4	16.1	16.7	17.0	17.3
115°	19.4	17.4	16.0	15.6	16.3	16.9	17.3	17.6
117.5°	18.6	17.0	15.9	15.8	16.5	17.2	17.5	17.8
120°	17.9	16.6	15.9	15.9	16.7	17.4	17.7	18.0
122.5°	17.3	16.3	15.9	16.1	17.0	17.7	18.0	18.3
125°	16.7	16.1	15.9	16.3	17.1	17.9	18.2	18.4
127.5°	16.3	15.9	16.0	16.4	17.3	18.0	18.3	18.6
130°	16.0	15.8	16.0	16.6	17.5	18.2	18.5	18.7
132.5°	15.7	15.7	16.1	16.7	17.6	18.3	18.6	18.9
135°	15.5	15.7	16.2	16.8	17.7	18.4	18.7	18.9
137.5°	15.2	15.6	16.2	16.9	17.8	18.5	18.7	19.0
140°	14.8	15.4	16.2	17.0	17.8	18.5	18.8	19.0
142.5°	14.4	15.2	16.2	17.1	17.8	18.5	18.7	19.0
145°	14.3	15.2	16.2	17.1	17.8	18.4	18.7	18.9
147.5°	14.3	15.2	16.2	17.1	17.8	18.3	18.6	18.8
150°	14.4	15.3	16.2	17.0	17.7	18.2	18.5	18.7
152.5°	14.5	15.4	16.2	17.0	17.6	18.1	18.3	18.5
155°	14.6	15.4	16.2	16.9	17.4	17.9	18.1	18.2
157.5°	14.7	15.4	16.2	16.8	17.3	17.7	17.8	18.0
160°	14.7	15.4	16.1	16.7	17.1	17.5	17.6	17.7
162.5°	14.8	15.4	16.0	16.5	16.9	17.2	17.4	17.5
165°	14.8	15.4	15.9	16.4	16.7	17.0	17.1	17.2
167.5°	14.9	15.3	15.8	16.2	16.5	16.7	16.8	16.9
170°	14.9	15.3	15.7	16.0	16.3	16.5	16.5	16.5
172.5°	14.9	15.2	15.6	15.9	16.1	16.2	16.2	16.2
175°	14.8	15.2	15.5	15.7	15.8	15.9	15.9	15.9
177.5°	14.8	15.1	15.3	15.5	15.6	15.7	15.6	15.5
180°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2

(END OF REPORT)