

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: P210496

Luminaire Tested: **CLCSLED-40-SM-UNV-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P210496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28993)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CLCSLED-40-SM-UNV-7050
Description: Canopy Wall Pack
Light Source: (1) 5000K CCT, 72 CRI LEDS
CLU038-1210
Ballast/Driver: IPP ELECTRONIC DRIVER
iPP LP1040-36-C0950

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4739 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 0.83' x H: 0.12')
IES Classification: Type V - Short - Cutoff
BUG Rating: B2 - U3 - G1

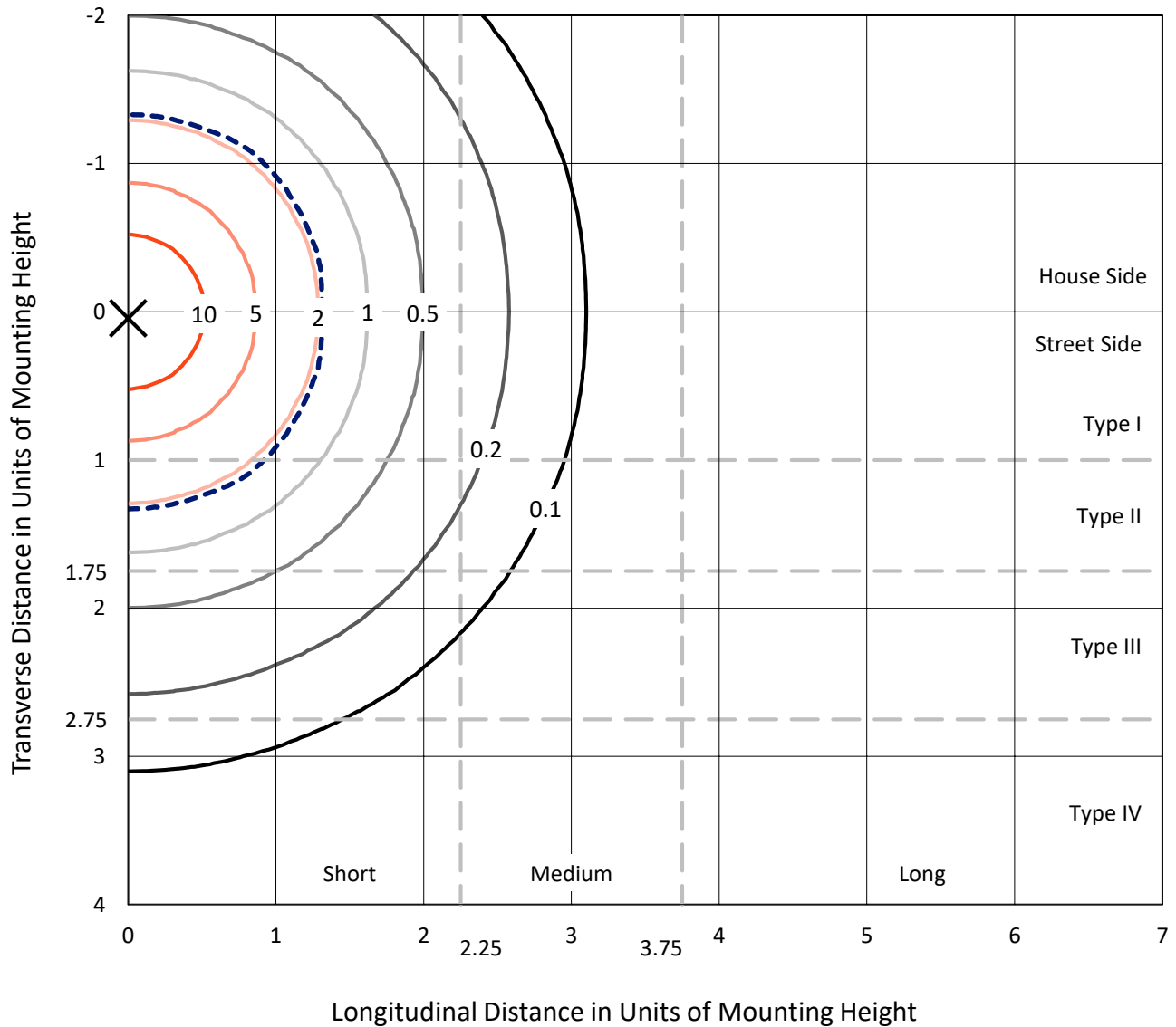
Input Watts (W): 36.81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

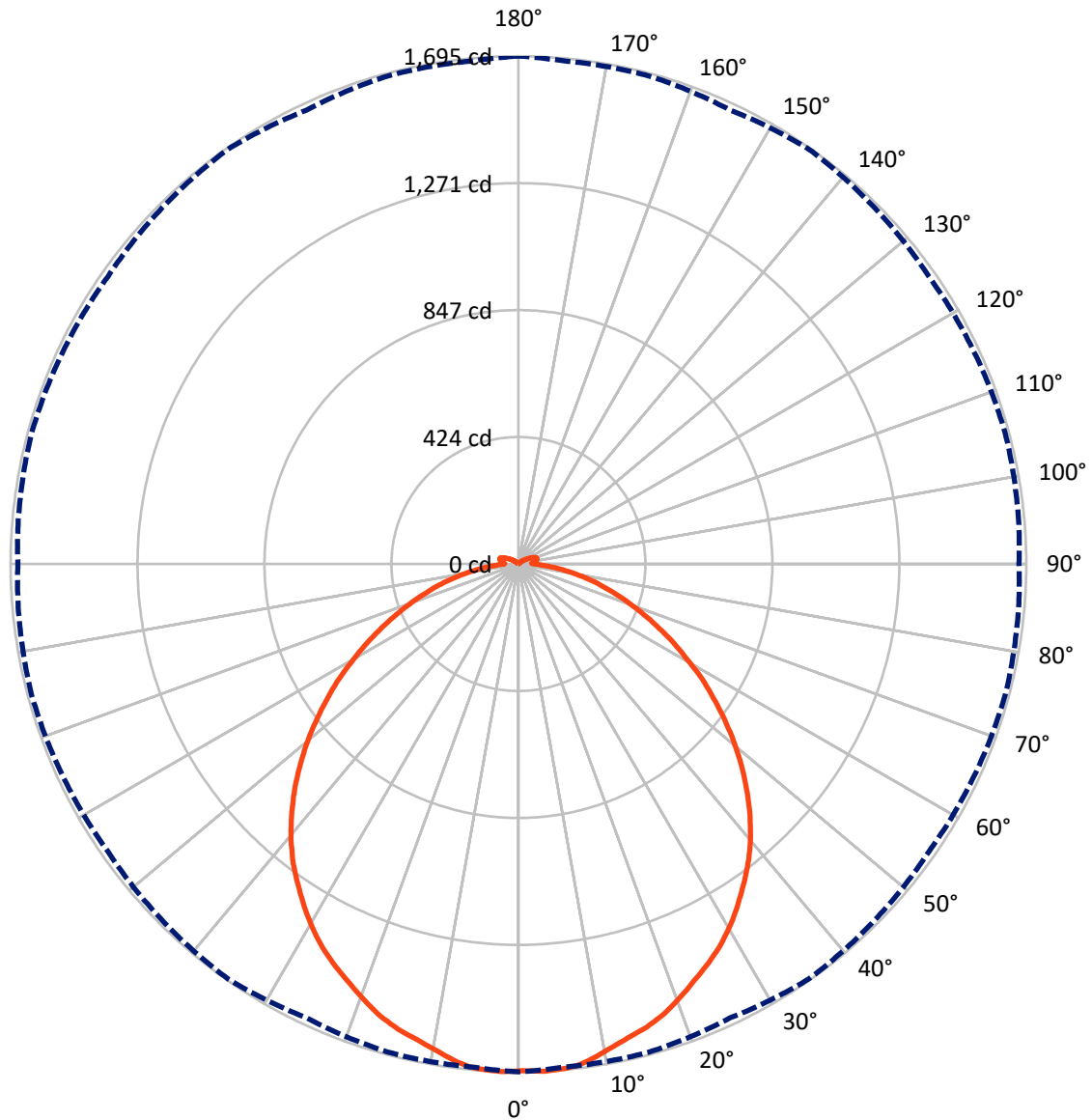
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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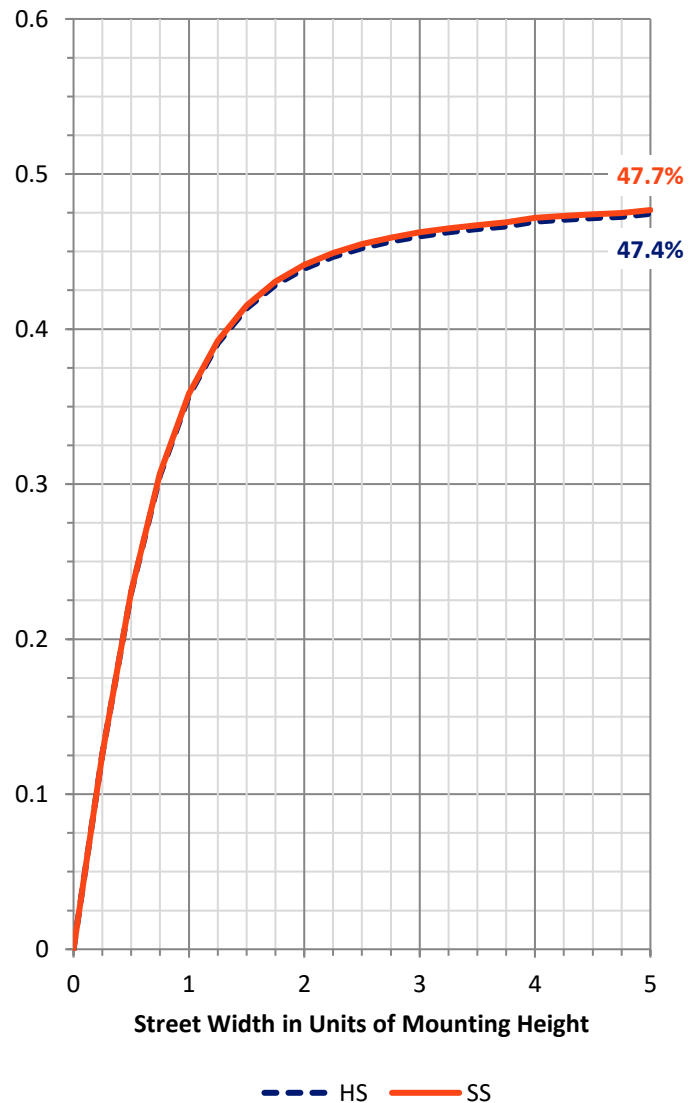
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2282.3	87.2	2369.5
	% Fixture	48.2	1.8	50.0
Street Side	Lumens	2282.3	87.2	2369.5
	% Fixture	48.2	1.8	50.0
Total	Lumens	4564.5	174.5	4739.0
	% Fixture	96.3	3.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	3.4
10°-20°	448.5	9.5
20°-30°	673.1	14.2
30°-40°	805.5	17.0
40°-50°	819.3	17.3
50°-60°	712.9	15.0
60°-70°	522.2	11.0
70°-80°	305.1	6.4
80°-90°	118.9	2.5
90°-100°	54.5	1.1
100°-110°	61.5	1.3
110°-120°	39.7	0.8
120°-130°	15.1	0.3
130°-140°	3.6	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4564.5	96.3
0°-180°	4739.0	100.0



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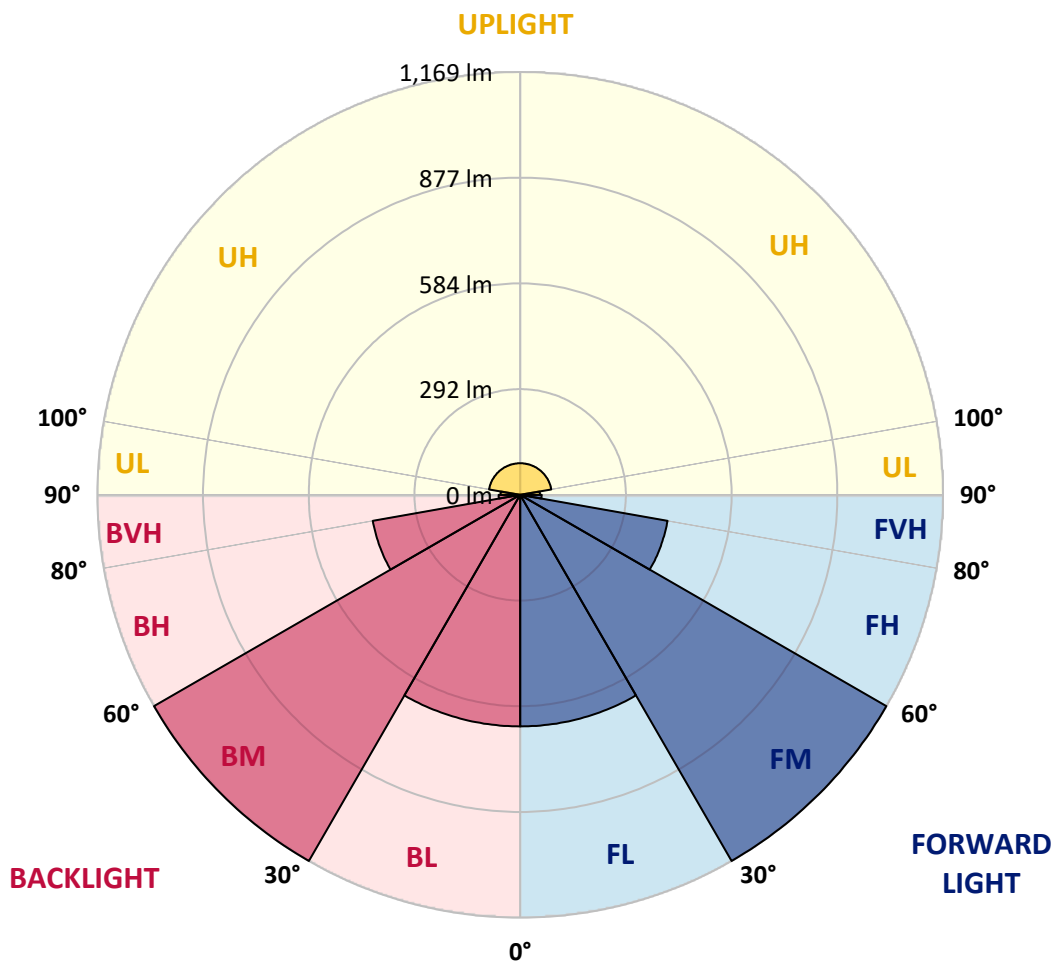
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.2	13.5			
FM (30°-60°)	1168.9	24.7			
FH (60°-80°)	413.7	8.7			G0/660
FVH (80°-90°)	59.5	1.3			G1/100
BL (0°-30°)	640.2	13.5	B2/1000		
BM (30°-60°)	1168.9	24.7	B2/2500		
BH (60°-80°)	413.7	8.7	B1/500		G0/660
BVH (80°-90°)	59.5	1.3			G1/100
UL (90°-100°)	54.5	1.1		U3/500	
UH (100°-180°)	87.2	1.8		U3/500	

BUG Rating: B2-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7
2.5°	1694.6	1685.8	1685.8	1671.3	1689.7	1681.0	1672.2	1677.1	1682.0	1675.2	1670.3
5°	1689.7	1682.0	1681.0	1669.3	1686.8	1679.0	1670.3	1675.2	1681.0	1674.2	1669.3
6°	1685.8	1678.1	1677.1	1665.4	1683.9	1675.2	1667.4	1672.2	1678.1	1670.3	1666.4
7.5°	1674.2	1667.4	1666.4	1655.7	1672.2	1664.5	1656.7	1661.6	1668.4	1660.6	1656.7
10°	1647.0	1639.2	1637.3	1626.6	1646.0	1636.3	1628.5	1633.4	1639.2	1630.5	1628.5
12.5°	1622.7	1615.9	1614.0	1603.3	1620.8	1611.1	1604.3	1609.1	1614.9	1606.2	1605.2
15°	1603.3	1597.5	1593.6	1583.9	1600.4	1590.7	1583.9	1588.7	1596.5	1586.8	1584.8
17.5°	1577.1	1571.2	1567.4	1556.7	1573.2	1562.5	1555.7	1561.5	1568.3	1558.6	1557.6
20°	1543.1	1538.2	1533.4	1522.7	1539.2	1528.5	1521.7	1526.6	1534.3	1521.7	1523.7
22.5°	1507.2	1502.3	1496.5	1486.8	1503.3	1490.6	1484.8	1488.7	1497.4	1485.8	1486.8
25°	1474.1	1470.2	1464.4	1453.7	1469.3	1457.6	1452.8	1456.7	1462.5	1451.8	1452.8
27.5°	1438.2	1434.3	1429.5	1419.8	1433.3	1421.7	1416.8	1420.7	1426.6	1416.8	1417.8
30°	1395.5	1393.5	1385.8	1378.0	1391.6	1379.9	1375.1	1379.0	1383.8	1373.1	1376.1
32.5°	1347.9	1345.9	1339.2	1332.4	1344.0	1333.3	1328.5	1331.4	1338.2	1327.5	1329.4
35°	1298.4	1297.4	1289.6	1283.8	1296.4	1284.8	1279.9	1284.8	1289.6	1278.9	1281.9
37.5°	1248.8	1246.9	1240.1	1236.2	1246.9	1236.2	1231.4	1236.2	1240.1	1229.4	1231.4
40°	1192.5	1191.5	1185.7	1179.9	1191.5	1182.8	1177.9	1182.8	1183.8	1173.1	1176.0
42.5°	1131.3	1130.4	1126.5	1123.6	1134.2	1126.5	1120.7	1121.6	1128.4	1112.9	1116.8
45°	1067.2	1067.2	1063.4	1061.4	1073.1	1066.3	1060.4	1059.5	1062.4	1049.8	1053.6
47.5°	1000.2	1000.2	998.3	997.3	1010.9	1004.1	999.3	999.3	997.3	984.7	988.6
50°	931.3	932.3	931.3	932.3	945.9	940.0	935.2	933.2	933.2	918.7	921.6
52.5°	860.4	861.4	862.3	865.3	879.8	874.0	869.1	863.3	866.2	850.7	852.6
55°	789.5	791.4	792.4	797.3	811.8	808.0	802.1	796.3	798.2	779.8	783.7
57.5°	721.5	720.6	721.5	727.4	742.9	740.0	736.1	732.2	727.4	710.8	714.7
60°	647.7	649.7	651.6	658.4	674.9	673.0	669.1	662.3	658.4	643.8	645.8
62.5°	581.7	581.7	583.6	590.4	606.0	606.0	603.1	595.3	590.4	577.8	578.8
65°	515.7	516.6	517.6	523.4	539.0	539.9	536.0	530.2	524.4	511.8	513.7
67.5°	452.5	452.5	453.5	458.4	471.0	472.9	471.0	465.2	460.3	450.6	451.6
70°	393.3	392.3	393.3	397.2	407.9	407.9	406.9	403.0	399.1	391.4	392.3
72.5°	337.0	337.0	337.0	337.9	345.7	345.7	345.7	343.8	342.8	337.0	337.0
75°	285.5	285.5	283.6	285.5	288.4	287.4	288.4	288.4	288.4	285.5	285.5
77.5°	236.0	236.0	235.0	234.0	235.0	233.1	235.0	236.9	238.9	236.0	236.9
80°	185.5	186.5	186.5	186.5	183.5	182.6	184.5	187.4	191.3	188.4	188.4
82.5°	141.8	142.8	142.8	142.8	138.9	138.9	140.8	143.7	146.6	144.7	144.7
85°	102.9	103.9	103.9	103.9	101.0	100.0	102.0	104.9	106.8	104.9	105.9
87.5°	71.9	72.8	72.8	71.9	69.9	68.9	70.9	73.8	74.8	72.8	73.8
90°	51.5	51.5	51.5	51.5	49.5	49.5	50.5	52.4	53.4	51.5	51.5
92.5°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	46.6	46.6	44.7	45.6
95°	48.6	48.6	48.6	47.6	47.6	47.6	47.6	48.6	48.6	47.6	48.6
97.5°	52.4	52.4	52.4	51.5	51.5	51.5	51.5	52.4	53.4	52.4	53.4
100°	57.3	57.3	56.3	55.4	54.4	54.4	55.4	57.3	58.3	58.3	59.2
102.5°	62.2	61.2	60.2	58.3	56.3	56.3	57.3	60.2	63.1	63.1	64.1
105°	64.1	64.1	61.2	59.2	55.4	54.4	56.3	61.2	64.1	66.0	67.0
107.5°	64.1	63.1	60.2	56.3	51.5	50.5	52.4	58.3	63.1	65.1	66.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	61.2	60.2	56.3	51.5	46.6	43.7	46.6	53.4	58.3	61.2	63.1
112.5°	55.4	55.4	50.5	45.6	39.8	37.9	39.8	45.6	52.4	56.3	57.3
115°	48.6	47.6	43.7	37.9	33.0	31.1	33.0	38.8	44.7	48.6	49.5
117.5°	40.8	40.8	36.9	31.1	26.2	24.3	26.2	31.1	36.9	40.8	41.8
120°	34.0	33.0	29.1	24.3	20.4	19.4	20.4	24.3	30.1	33.0	34.0
122.5°	27.2	27.2	24.3	19.4	16.5	14.6	15.5	19.4	24.3	26.2	27.2
125°	21.4	21.4	18.5	14.6	11.7	10.7	11.7	14.6	19.4	21.4	21.4
127.5°	16.5	16.5	14.6	11.7	8.7	7.8	7.8	11.7	14.6	16.5	16.5
130°	12.6	12.6	10.7	8.7	5.8	4.9	5.8	8.7	10.7	12.6	12.6
132.5°	9.7	9.7	7.8	6.8	3.9	1.9	3.9	5.8	7.8	8.7	9.7
135°	6.8	6.8	5.8	3.9	1.9	0.0	1.9	3.9	5.8	6.8	6.8
137.5°	4.9	4.9	3.9	2.9	1.0	0.0	1.0	2.9	3.9	4.9	4.9
140°	2.9	2.9	1.9	1.0	0.0	0.0	0.0	1.0	1.9	2.9	2.9
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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)