

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: P210495

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P210495
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
Description: Canopy Wall Pack
Light Source: (1) 4000K CCT, 72 CRI LEDS
CLU038-1210
Ballast/Driver: IPP ELECTRONIC DRIVER
iPP LP1040-36-C0950

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4839 lumens
Efficiency: N/A
Efficacy: 131.5 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

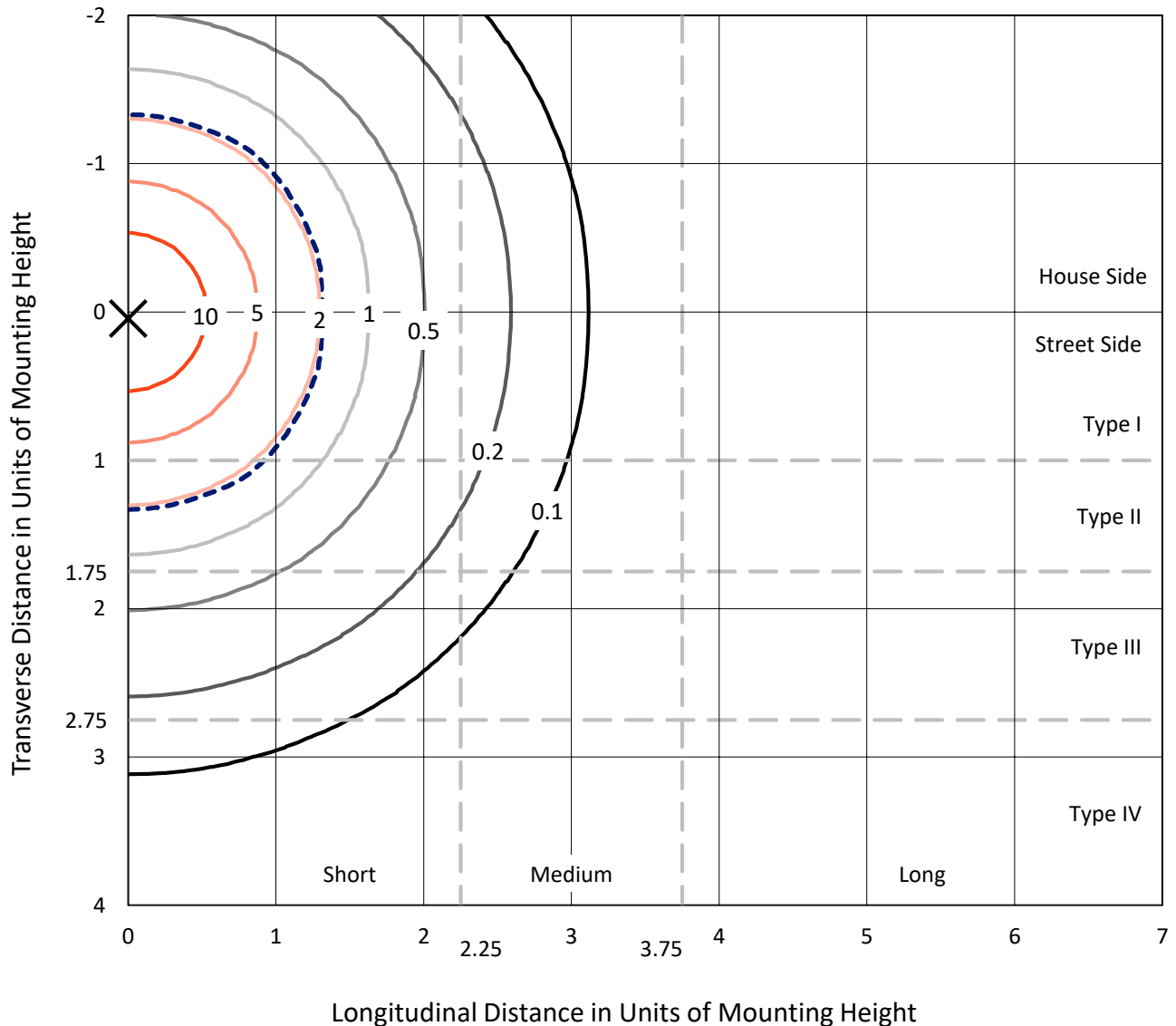
Input Watts (W): 36.81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

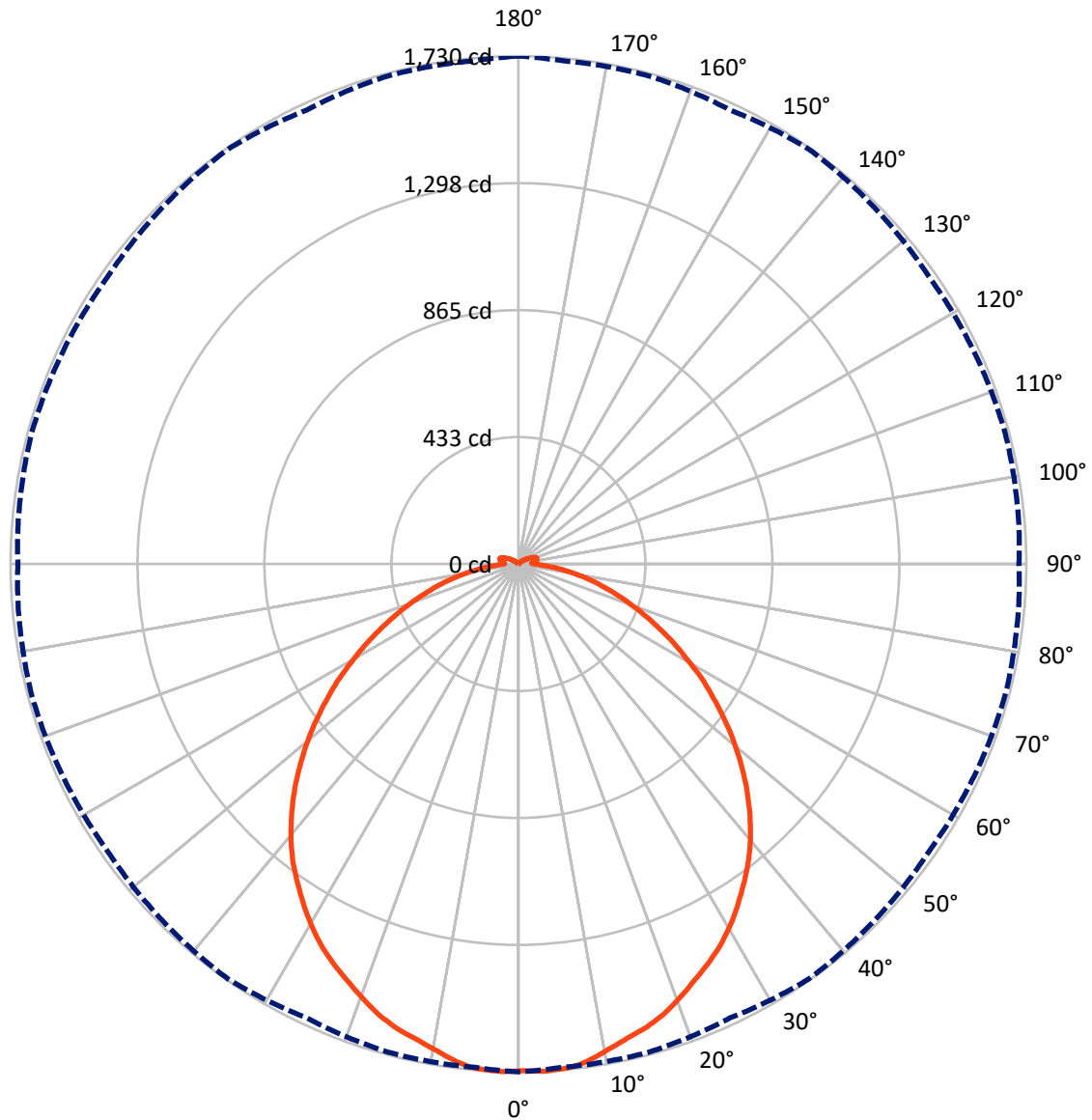
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 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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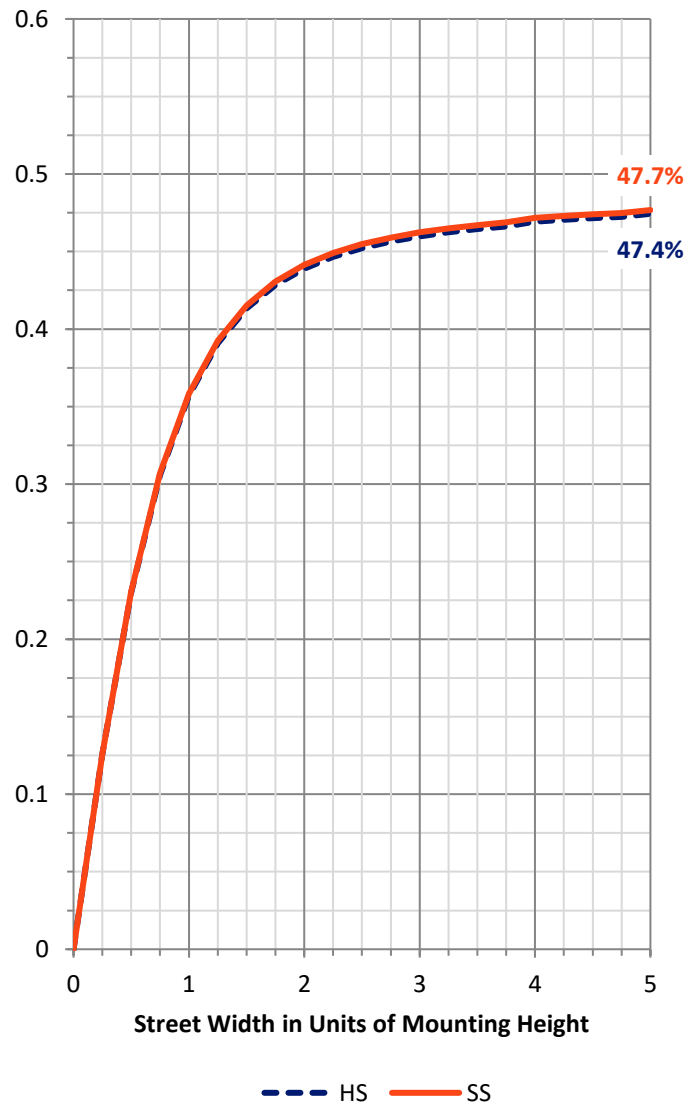
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2330.4	89.1	2419.5
	% Fixture	48.2	1.8	50.0
Street Side	Lumens	2330.4	89.1	2419.5
	% Fixture	48.2	1.8	50.0
Total	Lumens	4660.8	178.2	4839.0
	% Fixture	96.3	3.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	3.4
10°-20°	458.0	9.5
20°-30°	687.3	14.2
30°-40°	822.5	17.0
40°-50°	836.6	17.3
50°-60°	728.0	15.0
60°-70°	533.2	11.0
70°-80°	311.6	6.4
80°-90°	121.5	2.5
90°-100°	55.6	1.1
100°-110°	62.8	1.3
110°-120°	40.5	0.8
120°-130°	15.4	0.3
130°-140°	3.7	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°	4660.8	96.3
0°-180°	4839.0	100.0



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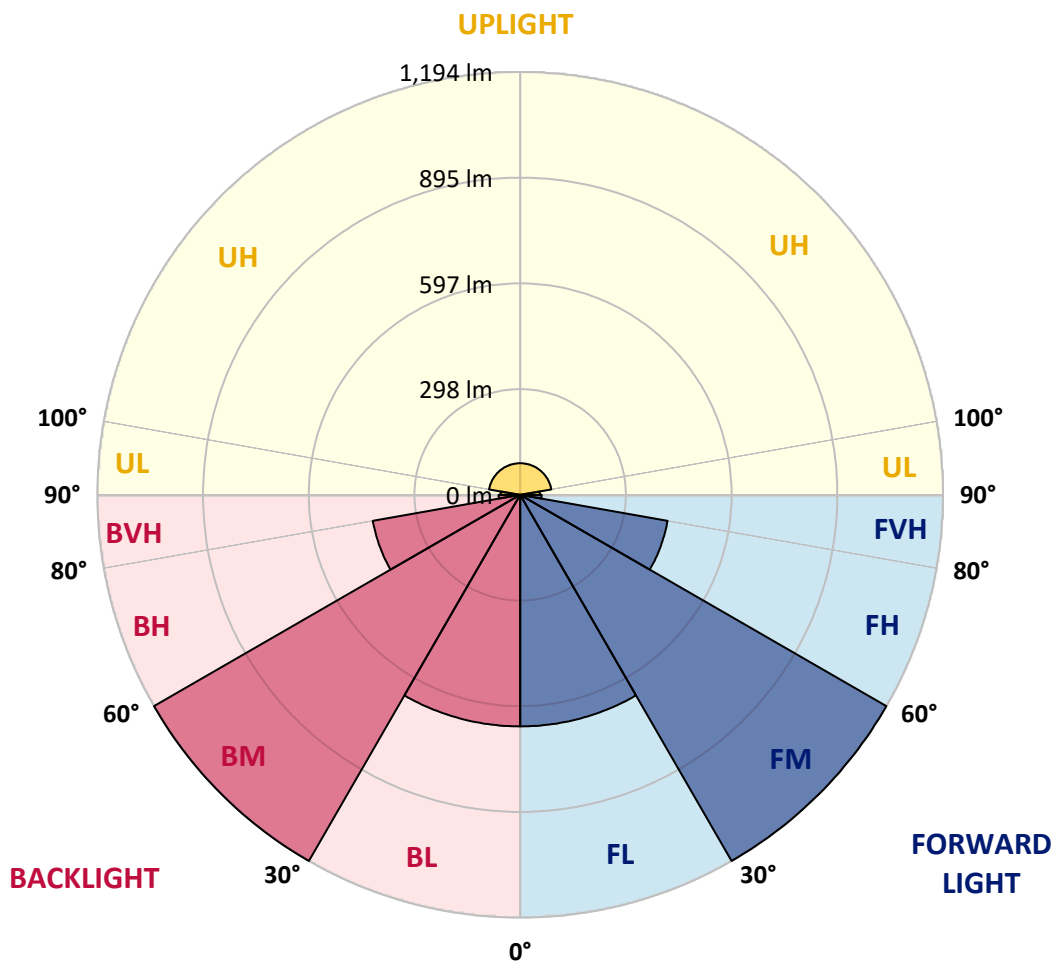
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.7	13.5			
FM (30°-60°)	1193.5	24.7			
FH (60°-80°)	422.4	8.7			G0/660
FVH (80°-90°)	60.7	1.3			G1/100
BL (0°-30°)	653.7	13.5	B2/1000		
BM (30°-60°)	1193.5	24.7	B2/2500		
BH (60°-80°)	422.4	8.7	B1/500		G0/660
BVH (80°-90°)	60.7	1.3			G1/100
UL (90°-100°)	55.6	1.1		U3/500	
UH (100°-180°)	89.1	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°	1726.4	1726.4	1726.4	1726.4	1726.4	1726.4	1726.4	1726.4	1726.4	1726.4	1726.4
2.5°	1730.3	1721.4	1721.4	1706.5	1725.4	1716.5	1707.5	1712.5	1717.4	1710.5	1705.5
5°	1725.4	1717.4	1716.5	1704.6	1722.4	1714.5	1705.5	1710.5	1716.5	1709.5	1704.6
6°	1721.4	1713.5	1712.5	1700.6	1719.4	1710.5	1702.6	1707.5	1713.5	1705.5	1701.6
7.5°	1709.5	1702.6	1701.6	1690.7	1707.5	1699.6	1691.7	1696.6	1703.6	1695.6	1691.7
10°	1681.7	1673.8	1671.8	1660.9	1680.8	1670.8	1662.9	1667.9	1673.8	1664.9	1662.9
12.5°	1657.0	1650.0	1648.0	1637.1	1655.0	1645.1	1638.1	1643.1	1649.0	1640.1	1639.1
15°	1637.1	1631.2	1627.2	1617.3	1634.1	1624.2	1617.3	1622.2	1630.2	1620.3	1618.3
17.5°	1610.3	1604.4	1600.4	1589.5	1606.4	1595.5	1588.5	1594.5	1601.4	1591.5	1590.5
20°	1575.6	1570.7	1565.7	1554.8	1571.7	1560.8	1553.8	1558.8	1566.7	1553.8	1555.8
22.5°	1539.0	1534.0	1528.0	1518.1	1535.0	1522.1	1516.1	1520.1	1529.0	1517.1	1518.1
25°	1505.2	1501.3	1495.3	1484.4	1500.3	1488.4	1483.4	1487.4	1493.3	1482.4	1483.4
27.5°	1468.6	1464.6	1459.6	1449.7	1463.6	1451.7	1446.7	1450.7	1456.7	1446.7	1447.7
30°	1424.9	1422.9	1415.0	1407.1	1421.0	1409.1	1404.1	1408.1	1413.0	1402.1	1405.1
32.5°	1376.3	1374.4	1367.4	1360.5	1372.4	1361.5	1356.5	1359.5	1366.4	1355.5	1357.5
35°	1325.8	1324.8	1316.8	1310.9	1323.8	1311.9	1306.9	1311.9	1316.8	1305.9	1308.9
37.5°	1275.2	1273.2	1266.3	1262.3	1273.2	1262.3	1257.3	1262.3	1266.3	1255.4	1257.3
40°	1217.7	1216.7	1210.7	1204.8	1216.7	1207.8	1202.8	1207.8	1208.8	1197.8	1200.8
42.5°	1155.2	1154.2	1150.2	1147.3	1158.2	1150.2	1144.3	1145.3	1152.2	1136.4	1140.3
45°	1089.8	1089.8	1085.8	1083.8	1095.7	1088.8	1082.8	1081.8	1084.8	1071.9	1075.9
47.5°	1021.3	1021.3	1019.4	1018.4	1032.2	1025.3	1020.4	1020.4	1018.4	1005.5	1009.4
50°	950.9	951.9	950.9	951.9	965.8	959.9	954.9	952.9	952.9	938.0	941.0
52.5°	878.6	879.5	880.5	883.5	898.4	892.4	887.5	881.5	884.5	868.6	870.6
55°	806.2	808.1	809.1	814.1	829.0	825.0	819.1	813.1	815.1	796.3	800.2
57.5°	736.8	735.8	736.8	742.7	758.6	755.6	751.6	747.7	742.7	725.8	729.8
60°	661.4	663.4	665.4	672.3	689.2	687.2	683.2	676.3	672.3	657.4	659.4
62.5°	594.0	594.0	595.9	602.9	618.8	618.8	615.8	607.8	602.9	590.0	591.0
65°	526.5	527.5	528.5	534.5	550.3	551.3	547.4	541.4	535.5	522.6	524.6
67.5°	462.1	462.1	463.1	468.0	480.9	482.9	480.9	475.0	470.0	460.1	461.1
70°	401.6	400.6	401.6	405.6	416.5	416.5	415.5	411.5	407.5	399.6	400.6
72.5°	344.1	344.1	344.1	345.1	353.0	353.0	353.0	351.0	350.0	344.1	344.1
75°	291.5	291.5	289.5	291.5	294.5	293.5	294.5	294.5	294.5	291.5	291.5
77.5°	241.0	241.0	240.0	239.0	240.0	238.0	240.0	241.9	243.9	241.0	241.9
80°	189.4	190.4	190.4	190.4	187.4	186.4	188.4	191.4	195.3	192.4	192.4
82.5°	144.8	145.8	145.8	145.8	141.8	141.8	143.8	146.8	149.7	147.7	147.7
85°	105.1	106.1	106.1	106.1	103.1	102.1	104.1	107.1	109.1	107.1	108.1
87.5°	73.4	74.4	74.4	73.4	71.4	70.4	72.4	75.4	76.4	74.4	75.4
90°	52.6	52.6	52.6	52.6	50.6	50.6	51.6	53.5	54.5	52.6	52.6
92.5°	46.6	46.6	46.6	46.6	46.6	46.6	46.6	47.6	47.6	45.6	46.6
95°	49.6	49.6	49.6	48.6	48.6	48.6	48.6	49.6	49.6	48.6	49.6
97.5°	53.5	53.5	53.5	52.6	52.6	52.6	52.6	53.5	54.5	53.5	54.5
100°	58.5	58.5	57.5	56.5	55.5	55.5	56.5	58.5	59.5	59.5	60.5
102.5°	63.5	62.5	61.5	59.5	57.5	57.5	58.5	61.5	64.5	64.5	65.4
105°	65.4	65.4	62.5	60.5	56.5	55.5	57.5	62.5	65.4	67.4	68.4
107.5°	65.4	64.5	61.5	57.5	52.6	51.6	53.5	59.5	64.5	66.4	67.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	62.5	61.5	57.5	52.6	47.6	44.6	47.6	54.5	59.5	62.5	64.5
112.5°	56.5	56.5	51.6	46.6	40.7	38.7	40.7	46.6	53.5	57.5	58.5
115°	49.6	48.6	44.6	38.7	33.7	31.7	33.7	39.7	45.6	49.6	50.6
117.5°	41.6	41.6	37.7	31.7	26.8	24.8	26.8	31.7	37.7	41.6	42.6
120°	34.7	33.7	29.7	24.8	20.8	19.8	20.8	24.8	30.7	33.7	34.7
122.5°	27.8	27.8	24.8	19.8	16.9	14.9	15.9	19.8	24.8	26.8	27.8
125°	21.8	21.8	18.8	14.9	11.9	10.9	11.9	14.9	19.8	21.8	21.8
127.5°	16.9	16.9	14.9	11.9	8.9	7.9	7.9	11.9	14.9	16.9	16.9
130°	12.9	12.9	10.9	8.9	5.9	5.0	5.9	8.9	10.9	12.9	12.9
132.5°	9.9	9.9	7.9	6.9	4.0	2.0	4.0	5.9	7.9	8.9	9.9
135°	6.9	6.9	5.9	4.0	2.0	0.0	2.0	4.0	5.9	6.9	6.9
137.5°	5.0	5.0	4.0	3.0	1.0	0.0	1.0	3.0	4.0	5.0	5.0
140°	3.0	3.0	2.0	1.0	0.0	0.0	0.0	1.0	2.0	3.0	3.0
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)