

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: McGRAW-EDISON

Report Number: P197762

Luminaire Tested: **TT-C4-LED-E1-WQ-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115468)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-WQ-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6695.3 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 58
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

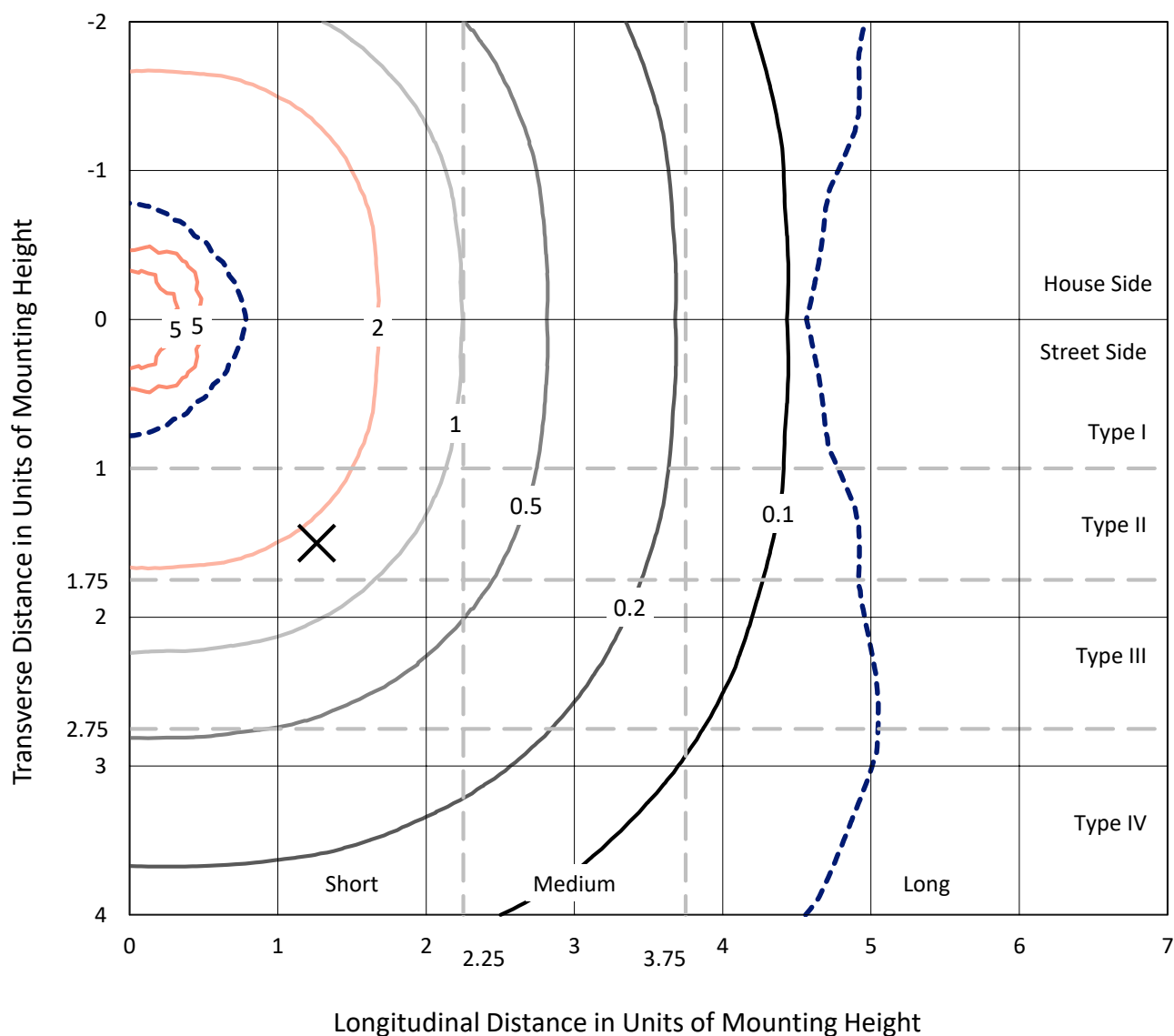


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

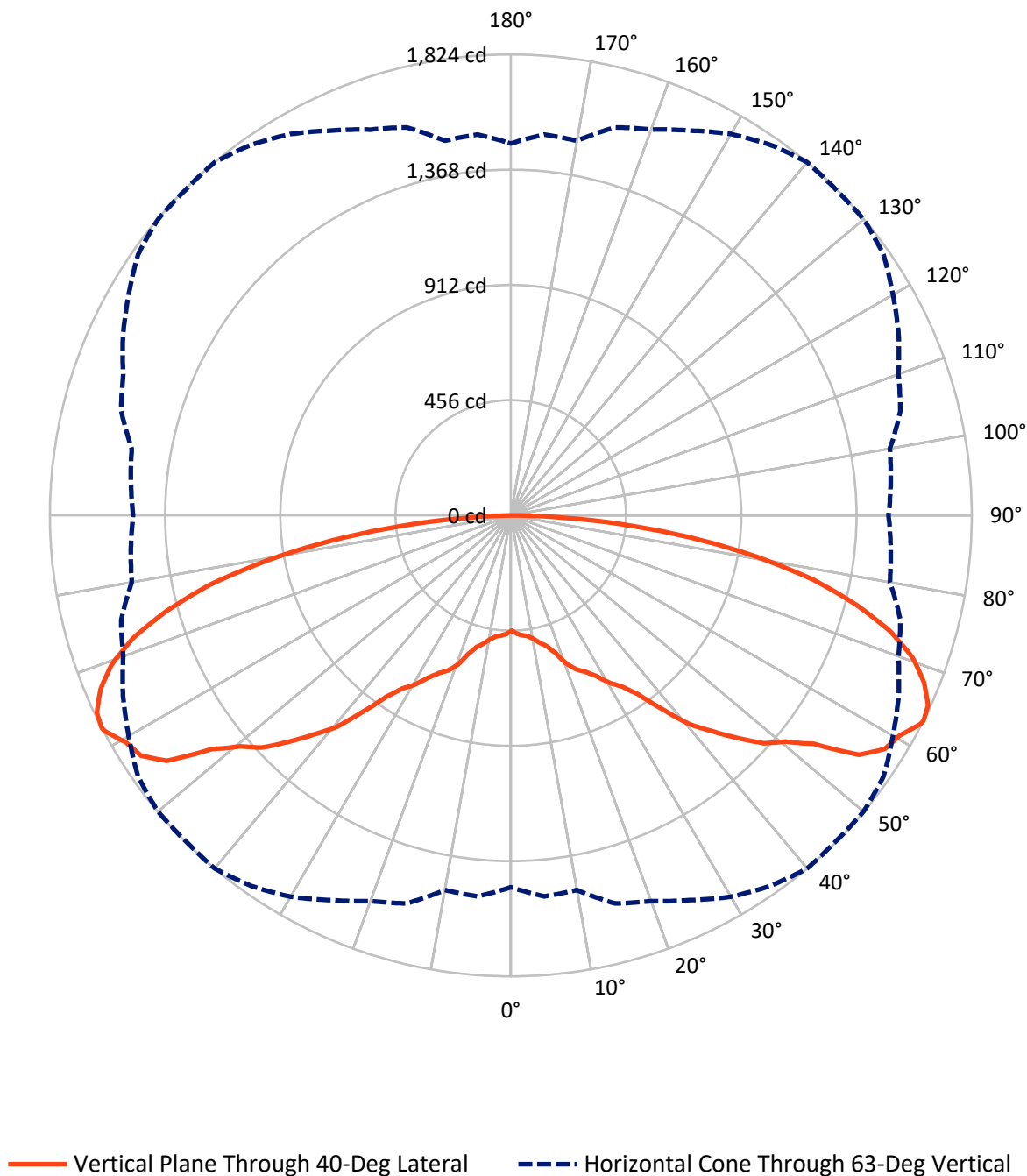


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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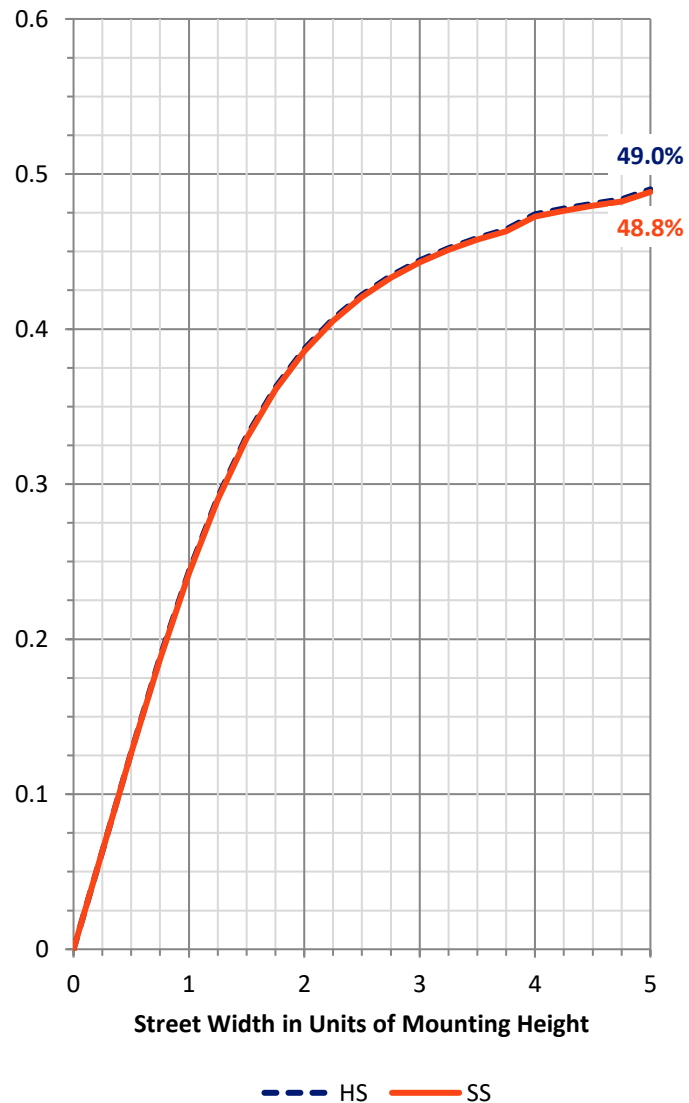
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3347.6	0.0	3347.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3347.6	0.0	3347.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6695.3	0.0	6695.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	0.7
10°-20°	156.4	2.3
20°-30°	318.0	4.7
30°-40°	548.1	8.2
40°-50°	923.2	13.8
50°-60°	1359.5	20.3
60°-70°	1616.6	24.1
70°-80°	1308.7	19.5
80°-90°	418.7	6.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6695.3	100.0
0°-180°	6695.3	100.0

Coefficient of Utilization



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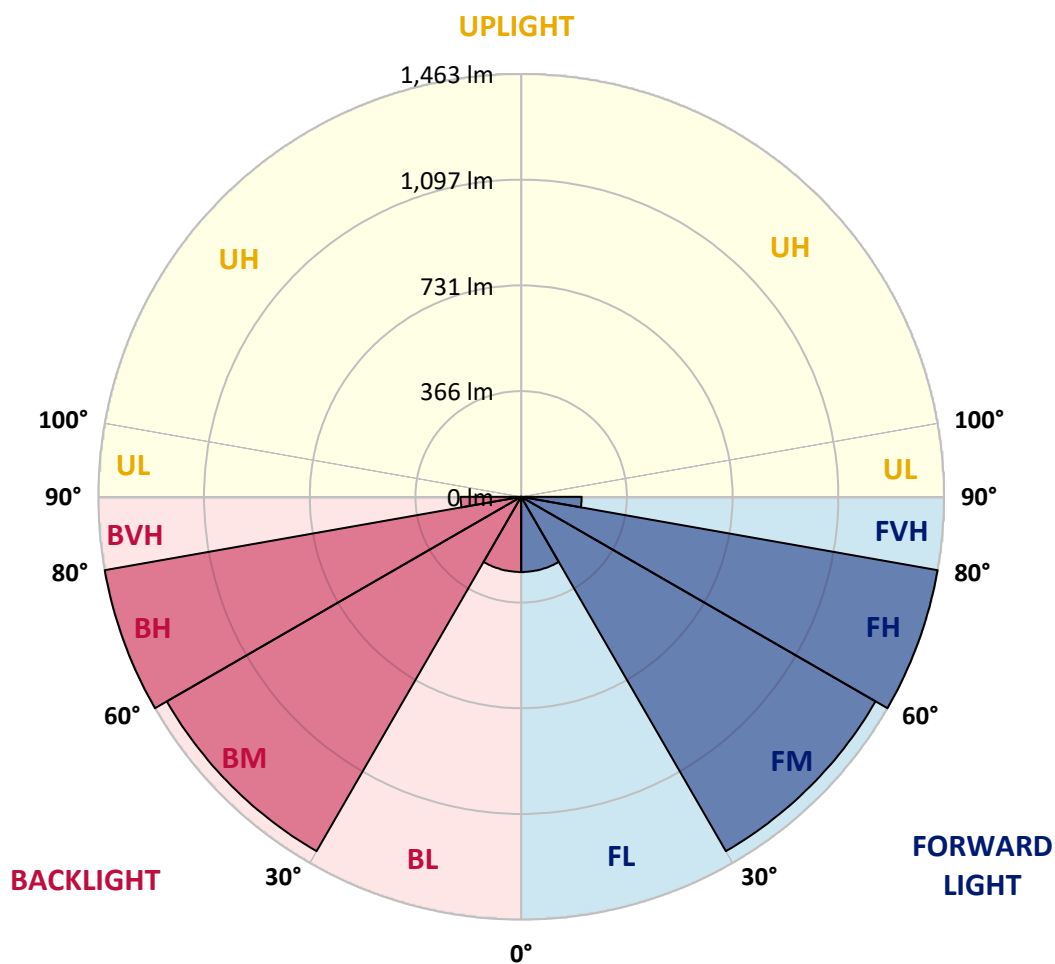
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.2	3.9			
FM	(30°-60°)	1415.4	21.1			
FH	(60°-80°)	1462.7	21.8			G1/1800
FVH	(80°-90°)	209.4	3.1			G2/225
BL	(0°-30°)	260.2	3.9	B1/500		
BM	(30°-60°)	1415.4	21.1	B2/2500		
BH	(60°-80°)	1462.7	21.8	B3/2500		G1/1800
BVH	(80°-90°)	209.4	3.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	455.8	455.8	455.8	455.8	455.8	455.8	455.8	455.8	455.8	455.8	455.8
2.5°	470.1	470.1	470.1	470.1	470.1	470.1	468.8	470.1	468.8	468.8	468.8
5°	479.1	479.1	479.1	479.1	477.9	477.9	476.6	476.6	476.6	475.3	476.6
7.5°	483.1	483.1	483.1	483.1	481.8	481.8	481.8	481.8	481.8	481.8	481.8
10°	492.1	492.1	493.4	494.7	497.3	497.3	497.3	498.6	497.3	497.3	497.3
12.5°	511.6	510.2	512.9	515.4	518.1	519.2	519.2	519.2	518.1	518.1	519.2
15°	538.7	536.2	537.4	538.7	540.0	541.4	541.4	540.0	537.4	537.4	537.4
17.5°	573.7	569.8	568.5	567.2	567.2	569.8	572.4	571.2	572.4	571.2	572.4
20°	615.1	612.5	612.5	612.5	613.8	619.0	624.2	626.8	625.5	623.0	626.8
22.5°	642.3	643.6	650.1	648.8	647.5	652.6	659.1	664.3	661.8	657.9	660.4
25°	672.1	672.1	681.2	685.1	681.2	681.2	683.8	687.6	685.1	682.4	685.1
27.5°	705.8	705.8	709.7	713.6	710.9	710.9	714.9	721.4	720.1	718.7	720.1
30°	745.9	740.7	736.9	743.4	749.9	751.2	755.0	765.4	768.0	766.7	769.2
32.5°	783.5	775.7	778.3	782.2	796.5	801.7	800.3	808.1	806.8	803.0	808.1
35°	819.8	828.8	834.0	841.8	847.0	853.4	853.4	867.6	870.3	866.4	870.3
37.5°	889.7	893.6	907.9	909.1	915.6	940.2	942.7	962.2	972.5	967.4	968.7
40°	985.5	984.2	994.6	1010.1	1023.1	1054.1	1063.3	1076.1	1085.3	1081.4	1086.6
42.5°	1063.3	1052.9	1060.6	1094.3	1108.6	1131.9	1143.5	1150.0	1166.8	1161.7	1168.2
45°	1118.9	1122.7	1133.2	1166.8	1175.9	1195.3	1222.5	1234.1	1256.1	1249.8	1253.6
47.5°	1173.3	1191.5	1200.5	1216.0	1244.5	1270.4	1304.1	1315.7	1346.9	1344.2	1340.4
50°	1244.5	1258.8	1269.1	1280.8	1319.7	1362.4	1390.8	1396.0	1406.5	1398.7	1411.6
52.5°	1320.9	1319.7	1328.7	1361.0	1415.5	1432.3	1456.9	1480.2	1502.2	1510.1	1502.2
55°	1422.0	1389.5	1427.1	1473.8	1497.1	1537.2	1596.8	1629.1	1671.9	1678.4	1665.4
57.5°	1463.4	1463.4	1502.2	1529.4	1572.2	1643.4	1706.9	1722.4	1744.4	1732.7	1745.7
60°	1458.3	1507.4	1507.4	1555.4	1625.3	1688.7	1712.1	1737.9	1767.7	1766.5	1766.5
62.5°	1464.8	1512.6	1499.6	1582.5	1625.3	1677.1	1728.9	1776.8	1818.3	1817.0	1815.6
63°	1471.1	1512.6	1504.9	1589.0	1624.0	1679.6	1741.9	1789.7	1823.5	1820.8	1822.1
65°	1490.6	1478.9	1525.6	1578.7	1618.8	1701.7	1753.5	1791.0	1814.3	1813.0	1813.0
67.5°	1454.3	1427.1	1493.2	1513.9	1590.3	1664.1	1704.2	1747.0	1763.8	1763.8	1761.2
70°	1343.0	1354.5	1400.0	1433.6	1511.2	1577.3	1611.0	1665.4	1686.1	1686.1	1684.9
72.5°	1230.3	1249.8	1280.8	1328.7	1402.5	1454.3	1494.4	1543.7	1570.9	1569.5	1569.5
75°	1086.6	1104.7	1140.9	1186.3	1251.0	1301.6	1333.9	1380.5	1411.6	1423.3	1410.3
77.5°	924.7	929.9	963.5	1010.1	1067.1	1102.1	1151.3	1196.7	1222.5	1221.2	1217.3
80°	727.9	734.2	762.8	815.8	847.0	888.4	933.7	958.4	980.3	980.3	977.7
82.5°	502.4	516.7	545.2	580.2	612.5	648.8	673.4	698.1	716.2	714.9	710.9
85°	283.6	290.1	317.2	339.4	363.9	387.2	404.0	419.6	435.1	435.1	432.5
87.5°	85.4	76.4	91.9	101.1	113.9	125.6	133.4	148.9	159.4	147.7	147.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	455.8	455.8	455.8	455.8	455.8	455.8	455.8	455.8
2.5°	470.1	470.1	470.1	470.1	470.1	470.1	470.1	470.1
5°	476.6	477.9	477.9	479.1	479.1	479.1	479.1	479.1
7.5°	481.8	481.8	481.8	481.8	483.1	483.1	483.1	483.1
10°	497.3	498.6	497.3	497.3	494.7	493.4	493.4	493.4
12.5°	519.2	520.6	520.6	518.1	515.4	512.9	511.6	510.2
15°	540.0	543.9	541.4	540.0	537.4	538.7	538.7	540.0
17.5°	572.4	573.7	569.8	567.2	565.9	568.5	571.2	572.4
20°	628.1	625.5	617.8	615.1	612.5	612.5	615.1	615.1
22.5°	663.1	656.6	651.4	648.8	648.8	648.8	645.0	639.8
25°	687.6	683.8	679.9	682.4	685.1	681.2	672.1	670.8
27.5°	721.4	713.6	712.2	710.9	712.2	709.7	708.4	703.2
30°	765.4	755.0	752.4	749.9	742.0	739.5	742.0	745.9
32.5°	806.8	800.3	803.0	797.7	783.5	778.3	780.9	779.7
35°	866.4	854.8	854.8	844.3	840.5	839.1	828.8	819.8
37.5°	960.9	945.4	941.5	918.2	907.9	910.4	896.2	885.8
40°	1076.1	1064.6	1054.1	1028.3	1014.0	995.8	986.8	986.8
42.5°	1152.5	1144.9	1130.6	1112.4	1096.9	1065.8	1054.1	1060.6
45°	1236.8	1226.5	1196.7	1178.5	1164.2	1142.2	1129.2	1116.4
47.5°	1322.2	1308.1	1273.1	1249.8	1216.0	1209.5	1195.3	1177.2
50°	1397.3	1392.2	1367.5	1328.7	1285.9	1275.6	1262.6	1245.8
52.5°	1489.3	1458.3	1437.5	1420.6	1372.7	1339.0	1320.9	1328.7
55°	1639.5	1600.7	1547.5	1494.4	1484.1	1444.0	1398.7	1423.3
57.5°	1726.2	1704.2	1664.1	1580.0	1538.5	1511.2	1481.6	1459.5
60°	1747.0	1706.9	1697.7	1634.3	1568.3	1511.2	1522.9	1471.1
62.5°	1787.2	1732.7	1682.3	1631.8	1591.6	1513.9	1511.2	1484.1
63°	1800.1	1745.7	1692.6	1631.8	1595.5	1522.9	1508.7	1494.4
65°	1797.5	1750.9	1710.7	1631.8	1577.3	1548.9	1478.9	1511.2
67.5°	1748.3	1709.4	1662.8	1608.5	1517.7	1495.7	1446.6	1453.1
70°	1669.3	1618.8	1574.8	1524.2	1451.8	1401.2	1371.5	1346.9
72.5°	1546.2	1500.9	1454.3	1407.7	1343.0	1282.1	1261.4	1234.1
75°	1383.2	1339.0	1296.4	1252.3	1191.5	1137.0	1115.1	1095.6
77.5°	1196.7	1159.0	1098.2	1056.8	1021.8	963.5	942.7	922.1
80°	954.4	936.4	892.3	837.9	819.8	762.8	747.2	720.1
82.5°	694.1	675.9	641.0	603.5	581.5	551.7	525.7	507.6
85°	423.5	404.0	385.9	352.2	339.4	317.2	296.6	286.2
87.5°	152.9	137.2	123.1	107.4	99.7	84.1	81.6	73.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)