

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: P197763

Luminaire Tested: **TT-C4-LED-E1-WQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197763
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6631.9 lumens
Efficiency: N/A
Efficacy: 114.3 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

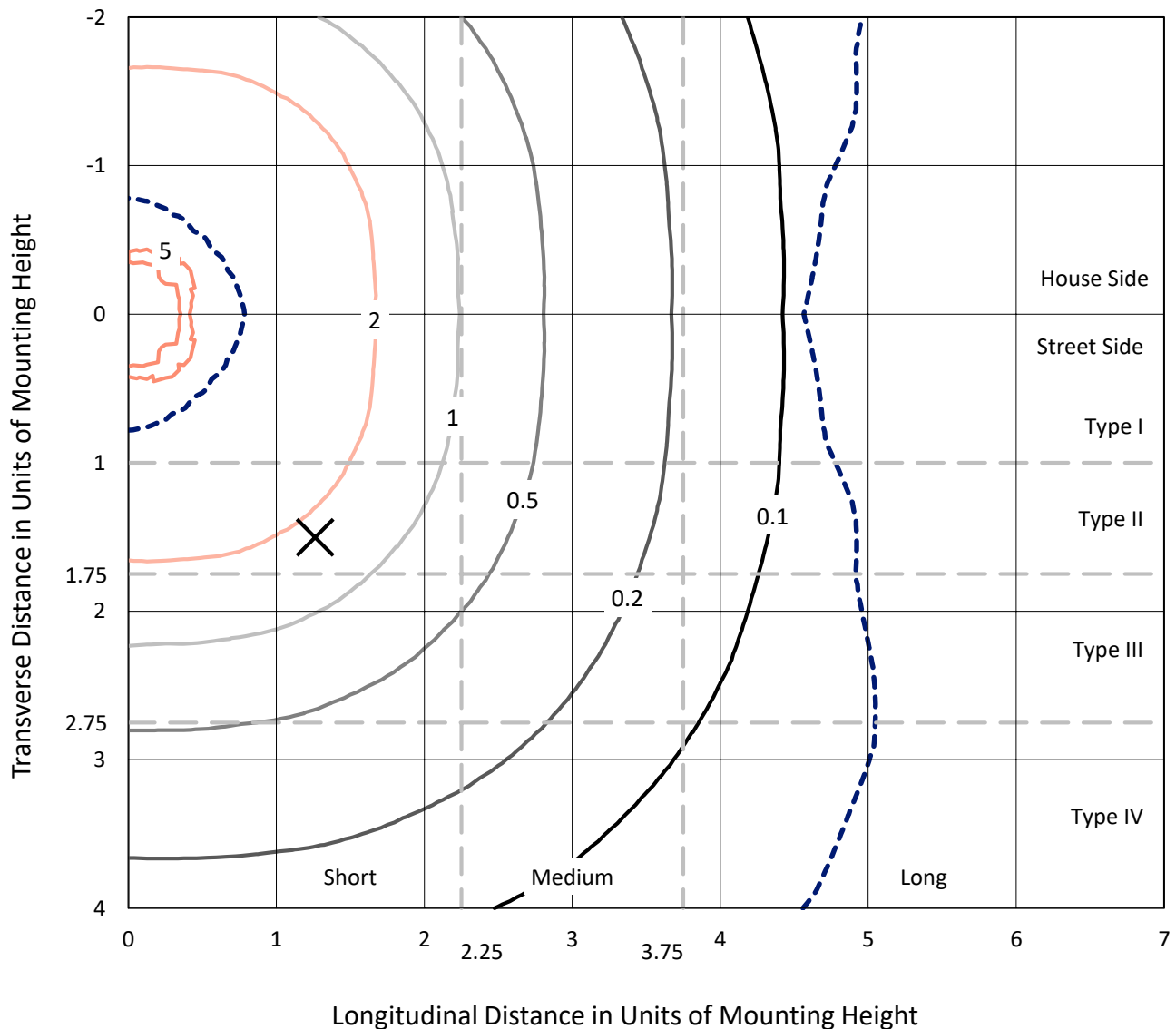


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

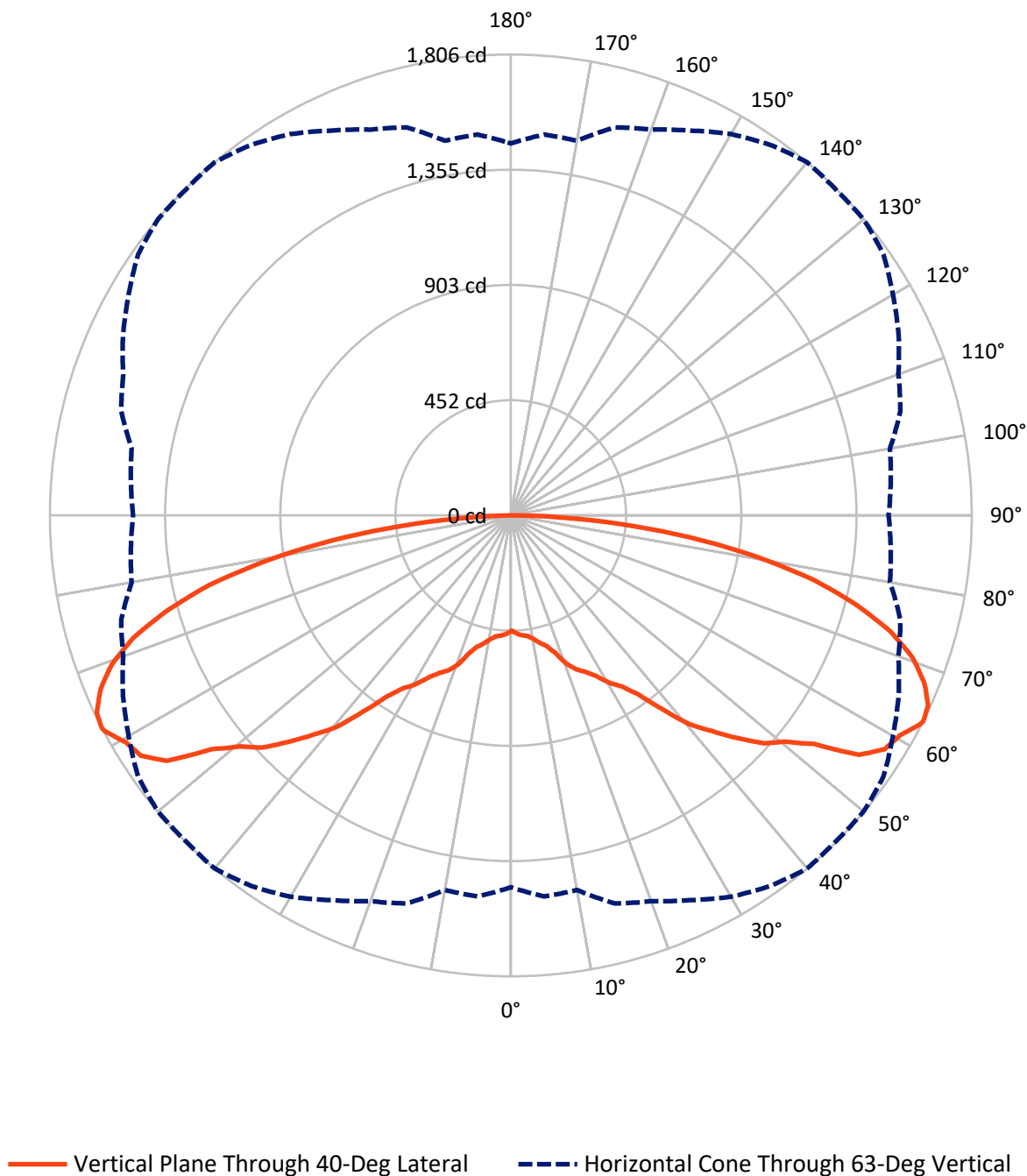


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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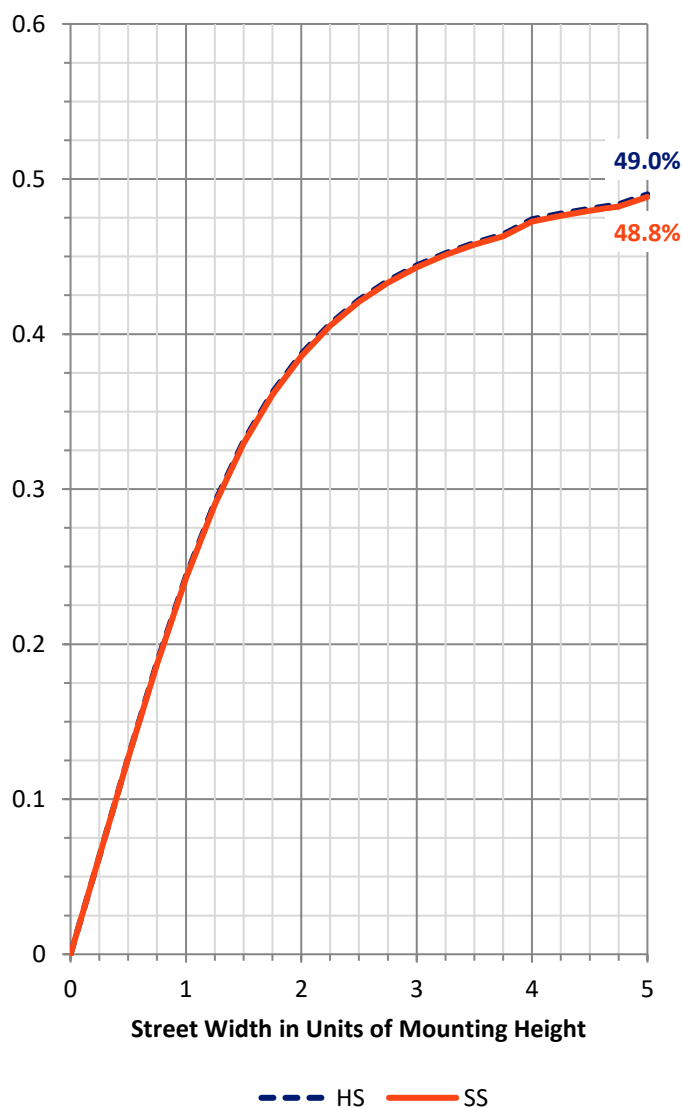
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3316.0	0.0	3316.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3316.0	0.0	3316.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6631.9	0.0	6631.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	0.7
10°-20°	154.9	2.3
20°-30°	315.0	4.7
30°-40°	542.9	8.2
40°-50°	914.5	13.8
50°-60°	1346.6	20.3
60°-70°	1601.3	24.1
70°-80°	1296.3	19.5
80°-90°	414.8	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°	6631.9	100.0
0°-180°	6631.9	100.0

Coefficient of Utilization



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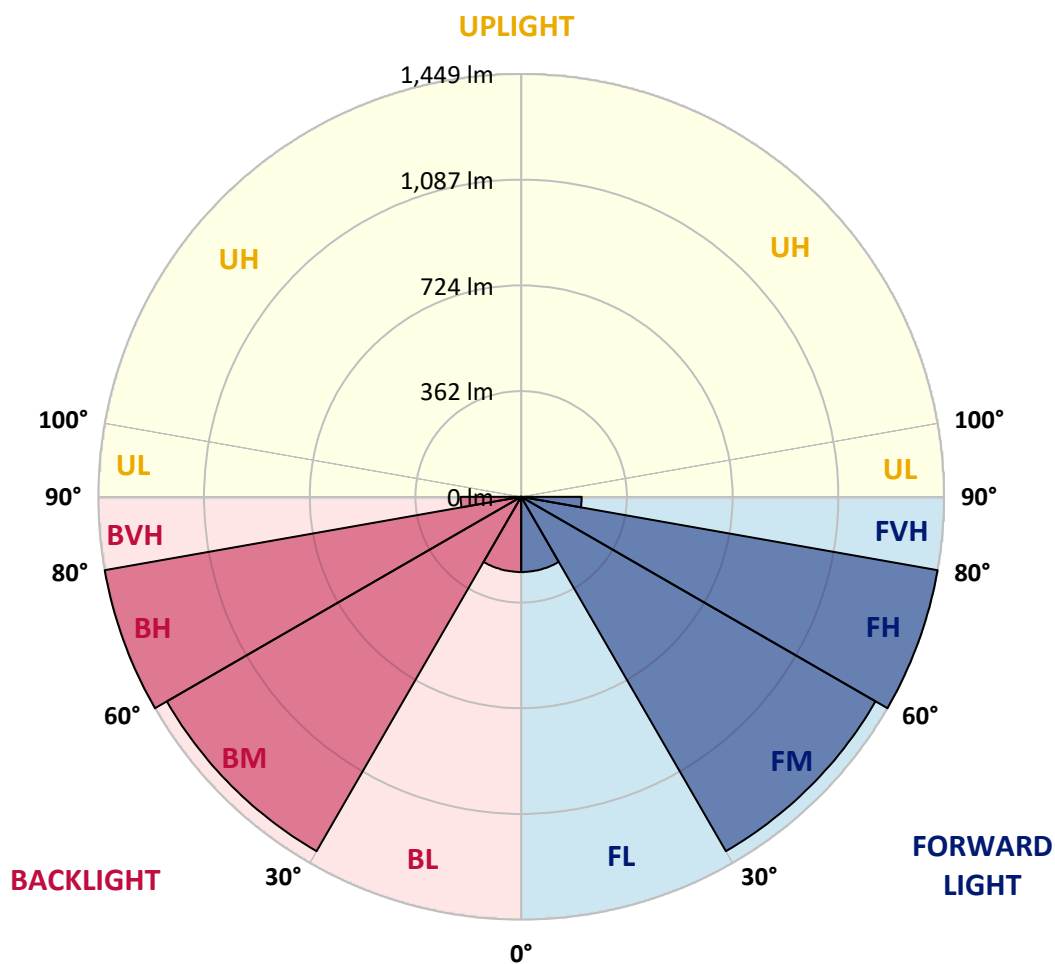
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.7	3.9			
FM	(30°-60°)	1402.0	21.1			
FH	(60°-80°)	1448.8	21.8			G1/1800
FVH	(80°-90°)	207.4	3.1			G2/225
BL	(0°-30°)	257.7	3.9	B1/500		
BM	(30°-60°)	1402.0	21.1	B2/2500		
BH	(60°-80°)	1448.8	21.8	B3/2500		G1/1800
BVH	(80°-90°)	207.4	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°	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5
2.5°	465.7	465.7	465.7	465.7	465.7	465.7	464.3	465.7	464.3	464.3	464.3
5°	474.6	474.6	474.6	474.6	473.4	473.4	472.1	472.1	472.1	470.8	472.1
7.5°	478.5	478.5	478.5	478.5	477.2	477.2	477.2	477.2	477.2	477.2	477.2
10°	487.4	487.4	488.7	490.1	492.6	492.6	492.6	493.9	492.6	492.6	492.6
12.5°	506.7	505.4	508.0	510.5	513.2	514.3	514.3	514.3	513.2	513.2	514.3
15°	533.6	531.1	532.3	533.6	534.9	536.2	536.2	534.9	532.3	532.3	532.3
17.5°	568.3	564.5	563.1	561.8	561.8	564.5	566.9	565.8	566.9	565.8	566.9
20°	609.3	606.7	606.7	606.7	608.0	613.1	618.2	620.9	619.6	617.1	620.9
22.5°	636.2	637.5	644.0	642.7	641.3	646.5	652.9	658.0	655.5	651.7	654.2
25°	665.7	665.7	674.8	678.6	674.8	674.8	677.3	681.1	678.6	676.0	678.6
27.5°	699.1	699.1	703.0	706.8	704.2	704.2	708.1	714.6	713.2	711.9	713.2
30°	738.8	733.7	729.9	736.3	742.8	744.1	747.9	758.1	760.7	759.4	761.9
32.5°	776.1	768.4	771.0	774.8	789.0	794.1	792.8	800.5	799.2	795.4	800.5
35°	812.0	821.0	826.1	833.8	838.9	845.4	845.4	859.4	862.0	858.2	862.0
37.5°	881.3	885.1	899.3	900.5	906.9	931.3	933.8	953.1	963.3	958.2	959.5
40°	976.2	974.9	985.2	1000.6	1013.4	1044.1	1053.2	1065.9	1075.0	1071.2	1076.3
42.5°	1053.2	1043.0	1050.6	1083.9	1098.1	1121.2	1132.7	1139.1	1155.8	1150.7	1157.1
45°	1108.3	1112.1	1122.5	1155.8	1164.7	1184.0	1210.9	1222.5	1244.2	1237.9	1241.7
47.5°	1162.2	1180.2	1189.1	1204.5	1232.7	1258.4	1291.7	1303.3	1334.1	1331.5	1327.7
50°	1232.7	1246.9	1257.1	1268.6	1307.2	1349.5	1377.7	1382.8	1393.2	1385.4	1398.3
52.5°	1308.4	1307.2	1316.1	1348.2	1402.1	1418.7	1443.2	1466.2	1488.0	1495.8	1488.0
55°	1408.5	1376.4	1413.6	1459.8	1482.9	1522.7	1581.7	1613.7	1656.1	1662.5	1649.7
57.5°	1449.6	1449.6	1488.0	1514.9	1557.3	1627.9	1690.7	1706.1	1727.9	1716.3	1729.2
60°	1444.5	1493.1	1493.1	1540.6	1609.9	1672.8	1695.9	1721.4	1751.0	1749.8	1749.8
62.5°	1450.9	1498.3	1485.4	1567.5	1609.9	1661.2	1712.5	1760.0	1801.1	1799.8	1798.5
63°	1457.2	1498.3	1490.6	1574.0	1608.6	1663.7	1725.4	1772.7	1806.2	1803.6	1804.9
65°	1476.5	1464.9	1511.1	1563.7	1603.5	1685.6	1736.9	1774.1	1797.1	1795.8	1795.8
67.5°	1440.5	1413.6	1479.1	1499.6	1575.3	1648.4	1688.1	1730.5	1747.2	1747.2	1744.5
70°	1330.3	1341.7	1386.7	1420.1	1496.9	1562.4	1595.7	1649.7	1670.1	1670.1	1669.0
72.5°	1218.7	1237.9	1268.6	1316.1	1389.2	1440.5	1480.3	1529.1	1556.0	1554.7	1554.7
75°	1076.3	1094.3	1130.1	1175.1	1239.1	1289.2	1321.3	1367.4	1398.3	1409.8	1397.0
77.5°	916.0	921.1	954.4	1000.6	1057.0	1091.6	1140.5	1185.3	1210.9	1209.6	1205.8
80°	721.0	727.3	755.6	808.1	838.9	880.0	924.9	949.3	971.1	971.1	968.4
82.5°	497.7	511.8	540.1	574.7	606.7	642.7	667.1	691.5	709.4	708.1	704.2
85°	280.9	287.3	314.2	336.2	360.4	383.5	400.2	415.7	431.0	431.0	428.4
87.5°	84.6	75.7	91.1	100.1	112.8	124.4	132.1	147.5	157.8	146.3	146.3
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°	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5
2.5°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
5°	472.1	473.4	473.4	474.6	474.6	474.6	474.6	474.6
7.5°	477.2	477.2	477.2	477.2	478.5	478.5	478.5	478.5
10°	492.6	493.9	492.6	492.6	490.1	488.7	488.7	488.7
12.5°	514.3	515.6	515.6	513.2	510.5	508.0	506.7	505.4
15°	534.9	538.7	536.2	534.9	532.3	533.6	533.6	534.9
17.5°	566.9	568.3	564.5	561.8	560.5	563.1	565.8	566.9
20°	622.2	619.6	612.0	609.3	606.7	606.7	609.3	609.3
22.5°	656.8	650.4	645.3	642.7	642.7	642.7	638.8	633.7
25°	681.1	677.3	673.5	676.0	678.6	674.8	665.7	664.4
27.5°	714.6	706.8	705.5	704.2	705.5	703.0	701.7	696.6
30°	758.1	747.9	745.3	742.8	735.0	732.5	735.0	738.8
32.5°	799.2	792.8	795.4	790.1	776.1	771.0	773.5	772.3
35°	858.2	846.7	846.7	836.3	832.5	831.2	821.0	812.0
37.5°	951.8	936.4	932.6	909.5	899.3	901.8	887.7	877.4
40°	1065.9	1054.5	1044.1	1018.6	1004.4	986.4	977.5	977.5
42.5°	1141.6	1134.0	1119.9	1101.9	1086.5	1055.7	1044.1	1050.6
45°	1225.1	1214.9	1185.3	1167.4	1153.2	1131.4	1118.5	1105.8
47.5°	1309.7	1295.7	1261.0	1237.9	1204.5	1198.1	1184.0	1166.0
50°	1384.1	1379.0	1354.6	1316.1	1273.8	1263.5	1250.7	1234.0
52.5°	1475.2	1444.5	1423.9	1407.2	1359.7	1326.4	1308.4	1316.1
55°	1624.0	1585.5	1532.9	1480.3	1470.0	1430.3	1385.4	1409.8
57.5°	1709.9	1688.1	1648.4	1565.0	1524.0	1496.9	1467.6	1445.6
60°	1730.5	1690.7	1681.7	1618.8	1553.5	1496.9	1508.5	1457.2
62.5°	1770.3	1716.3	1666.3	1616.3	1576.6	1499.6	1496.9	1470.0
63°	1783.1	1729.2	1676.6	1616.3	1580.4	1508.5	1494.5	1480.3
65°	1780.5	1734.3	1694.5	1616.3	1562.4	1534.2	1464.9	1496.9
67.5°	1731.8	1693.2	1647.0	1593.3	1503.4	1481.6	1432.9	1439.3
70°	1653.5	1603.5	1559.9	1509.8	1438.0	1387.9	1358.5	1334.1
72.5°	1531.6	1486.7	1440.5	1394.3	1330.3	1270.0	1249.5	1222.5
75°	1370.1	1326.4	1284.1	1240.4	1180.2	1126.3	1104.5	1085.2
77.5°	1185.3	1148.1	1087.8	1046.8	1012.1	954.4	933.8	913.3
80°	945.3	927.5	883.8	830.0	812.0	755.6	740.1	713.2
82.5°	687.5	669.6	634.9	597.8	576.0	546.5	520.8	502.8
85°	419.5	400.2	382.2	348.9	336.2	314.2	293.8	283.5
87.5°	151.4	135.9	121.9	106.4	98.8	83.3	80.8	73.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)