

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: P197739

Luminaire Tested: **TT-C4-LED-E1-WQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6195.9 lumens
Efficiency: N/A
Efficacy: 106.8 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



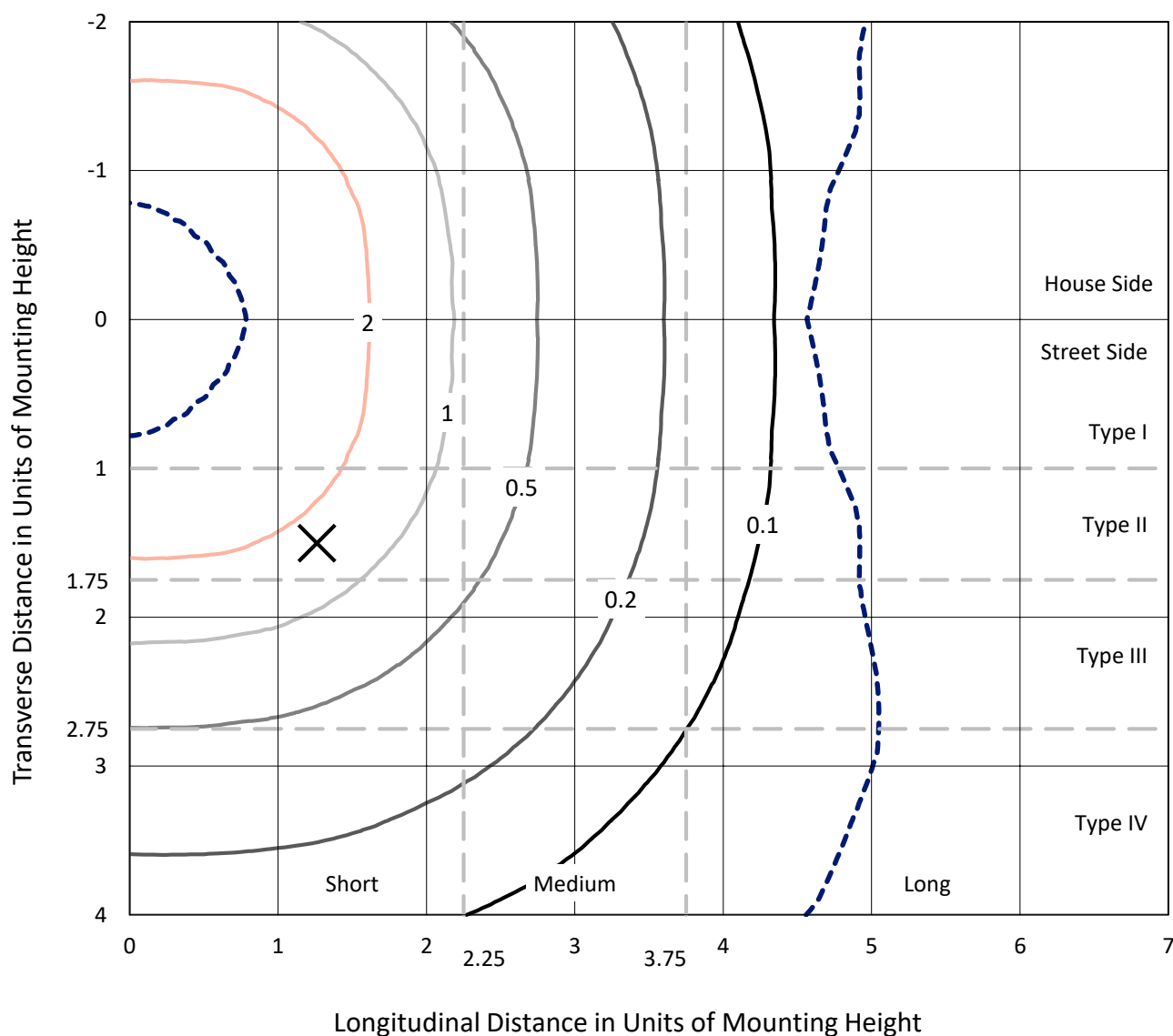
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

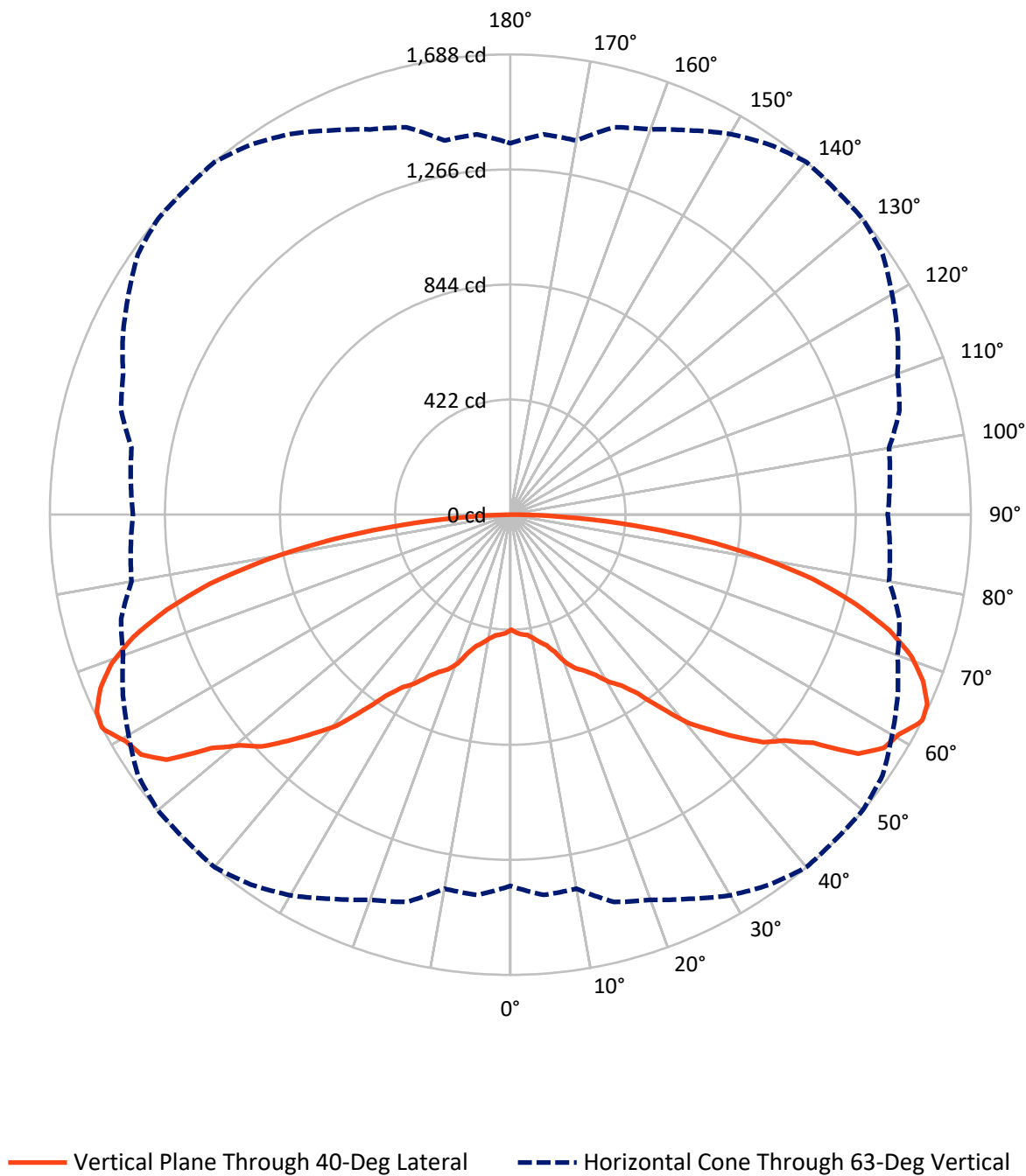


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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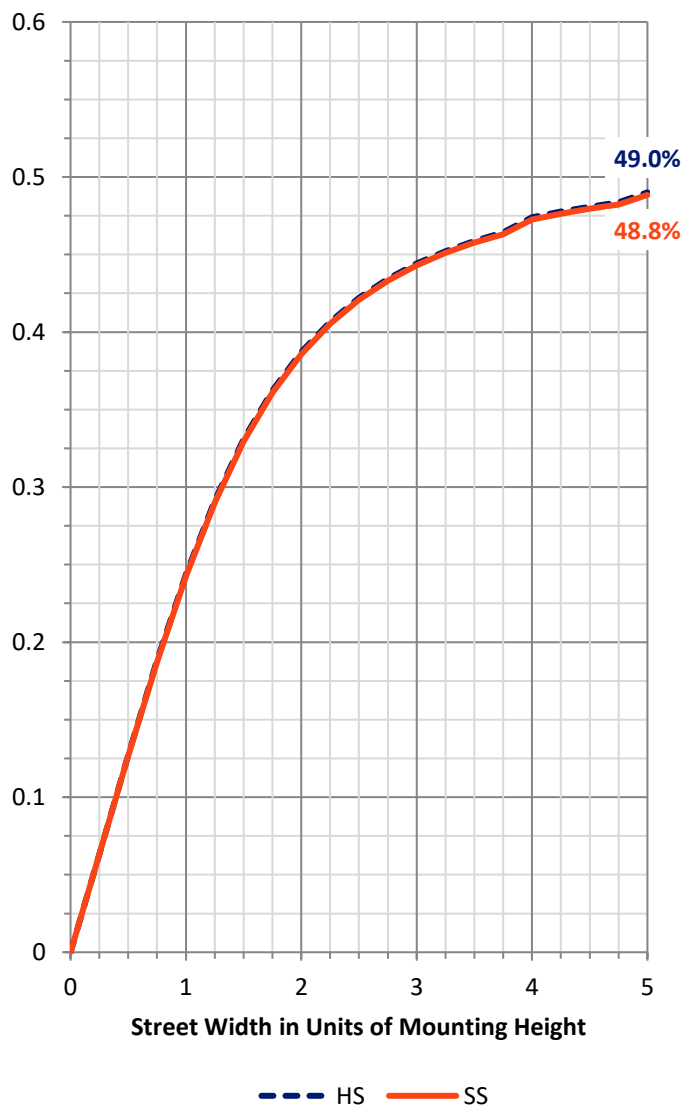
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3097.9	0.0	3097.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3097.9	0.0	3097.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6195.9	0.0	6195.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	0.7
10°-20°	144.8	2.3
20°-30°	294.3	4.7
30°-40°	507.2	8.2
40°-50°	854.4	13.8
50°-60°	1258.1	20.3
60°-70°	1496.1	24.1
70°-80°	1211.1	19.5
80°-90°	387.5	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°	6195.9	100.0
0°-180°	6195.9	100.0

Coefficient of Utilization



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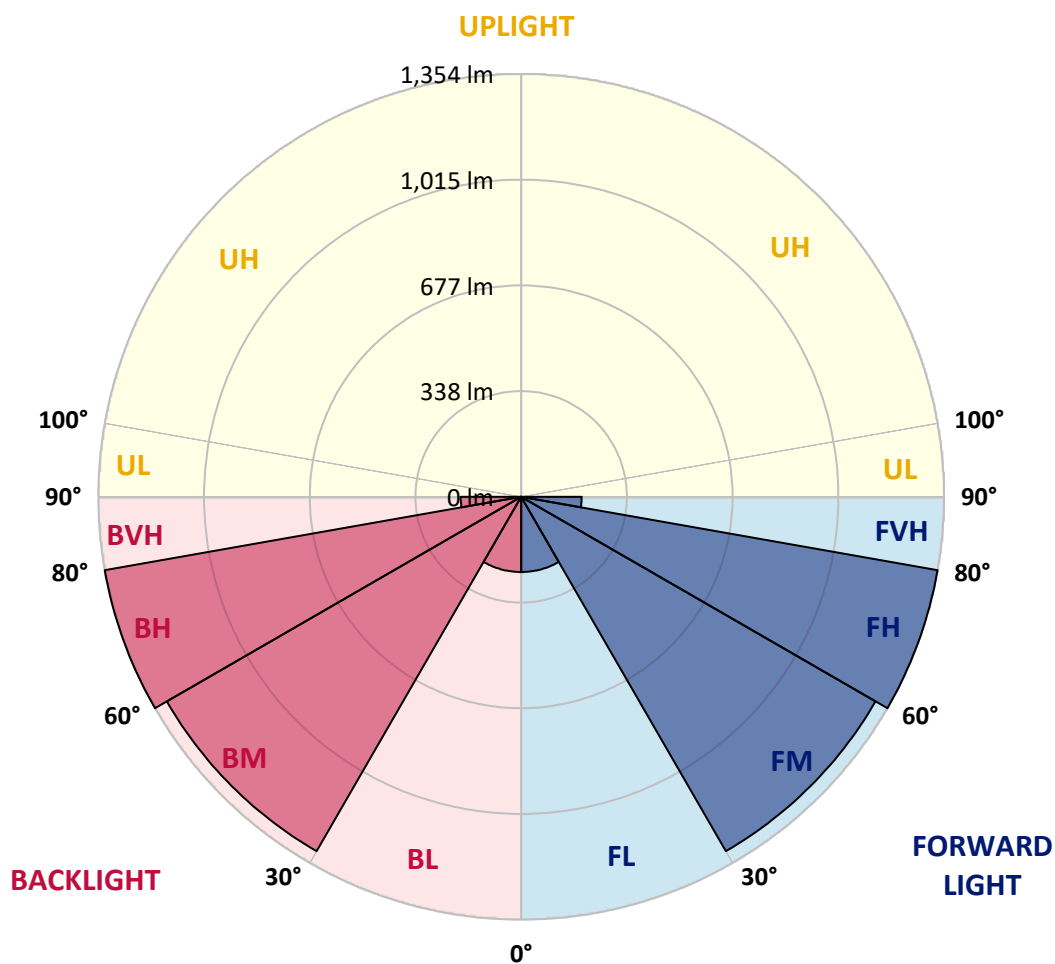
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.8	3.9			
FM	(30°-60°)	1309.8	21.1			
FH	(60°-80°)	1353.6	21.8			G1/1800
FVH	(80°-90°)	193.7	3.1			G2/225
BL	(0°-30°)	240.8	3.9	B1/500		
BM	(30°-60°)	1309.8	21.1	B2/2500		
BH	(60°-80°)	1353.6	21.8	B3/2500		G1/1800
BVH	(80°-90°)	193.7	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°	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8
2.5°	435.1	435.1	435.1	435.1	435.1	435.1	433.8	435.1	433.8	433.8	433.8
5°	443.5	443.5	443.5	443.5	442.2	442.2	441.0	441.0	441.0	439.8	441.0
7.5°	447.0	447.0	447.0	447.0	445.8	445.8	445.8	445.8	445.8	445.8	445.8
10°	455.4	455.4	456.6	457.8	460.1	460.1	460.1	461.5	460.1	460.1	460.1
12.5°	473.4	472.2	474.6	476.9	479.4	480.6	480.6	480.6	479.4	479.4	480.6
15°	498.6	496.1	497.4	498.6	499.8	500.9	500.9	499.8	497.4	497.4	497.4
17.5°	530.9	527.3	526.1	525.0	525.0	527.3	529.7	528.5	529.7	528.5	529.7
20°	569.3	566.8	566.8	566.8	568.0	572.9	577.7	580.1	578.9	576.4	580.1
22.5°	594.4	595.7	601.6	600.4	599.2	604.1	610.0	614.8	612.3	608.8	611.2
25°	622.1	622.1	630.3	634.0	630.3	630.3	632.8	636.4	634.0	631.6	634.0
27.5°	653.1	653.1	656.7	660.4	658.0	658.0	661.5	667.6	666.3	665.1	666.3
30°	690.3	685.6	681.9	687.9	694.0	695.1	698.7	708.3	710.6	709.4	711.9
32.5°	725.1	717.8	720.3	723.9	737.0	741.8	740.7	747.9	746.6	743.0	747.9
35°	758.6	767.0	771.8	779.0	783.8	789.7	789.7	803.0	805.4	801.8	805.4
37.5°	823.3	826.9	840.1	841.3	847.3	870.0	872.5	890.5	900.1	895.2	896.4
40°	912.0	910.8	920.4	934.7	946.8	975.5	983.9	995.9	1004.3	1000.7	1005.4
42.5°	983.9	974.3	981.6	1012.7	1025.9	1047.4	1058.2	1064.2	1079.8	1075.0	1081.0
45°	1035.5	1039.0	1048.6	1079.8	1088.2	1106.2	1131.3	1142.2	1162.5	1156.5	1160.1
47.5°	1085.7	1102.5	1110.9	1125.4	1151.7	1175.6	1206.8	1217.6	1246.3	1244.0	1240.4
50°	1151.7	1164.9	1174.4	1185.2	1221.3	1260.8	1287.1	1291.9	1301.4	1294.4	1306.3
52.5°	1222.5	1221.3	1229.5	1259.6	1309.8	1325.5	1348.3	1369.8	1390.1	1397.4	1390.1
55°	1315.9	1286.0	1320.7	1363.8	1385.4	1422.5	1477.7	1507.7	1547.2	1553.2	1541.2
57.5°	1354.2	1354.2	1390.1	1415.3	1455.0	1520.8	1579.6	1593.9	1614.2	1603.5	1615.6
60°	1349.5	1395.0	1395.0	1439.3	1504.0	1562.8	1584.3	1608.3	1635.9	1634.7	1634.7
62.5°	1355.5	1399.7	1387.8	1464.5	1504.0	1551.9	1599.9	1644.3	1682.6	1681.4	1680.2
63°	1361.4	1399.7	1392.6	1470.4	1502.8	1554.4	1611.9	1656.2	1687.5	1685.0	1686.1
65°	1379.4	1368.6	1411.8	1460.9	1498.0	1574.7	1622.6	1657.4	1679.1	1677.9	1677.9
67.5°	1345.8	1320.7	1381.7	1401.0	1471.8	1540.0	1577.1	1616.7	1632.2	1632.2	1629.9
70°	1242.8	1253.6	1295.5	1326.6	1398.5	1459.7	1490.9	1541.2	1560.3	1560.3	1559.1
72.5°	1138.5	1156.5	1185.2	1229.5	1297.9	1345.8	1383.1	1428.6	1453.6	1452.5	1452.5
75°	1005.4	1022.2	1055.8	1097.8	1157.6	1204.5	1234.4	1277.6	1306.3	1317.1	1305.1
77.5°	855.7	860.5	891.7	934.7	987.5	1019.9	1065.4	1107.4	1131.3	1130.1	1126.5
80°	673.5	679.5	705.9	755.0	783.8	822.1	864.1	886.8	907.2	907.2	904.8
82.5°	465.0	478.1	504.5	536.9	566.8	600.4	623.2	645.9	662.7	661.5	658.0
85°	262.4	268.5	293.6	314.0	336.8	358.3	373.9	388.2	402.7	402.7	400.3
87.5°	79.1	70.7	85.2	93.4	105.5	116.2	123.5	137.8	147.3	136.6	136.6
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°	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8
2.5°	435.1	435.1	435.1	435.1	435.1	435.1	435.1	435.1
5°	441.0	442.2	442.2	443.5	443.5	443.5	443.5	443.5
7.5°	445.8	445.8	445.8	445.8	447.0	447.0	447.0	447.0
10°	460.1	461.5	460.1	460.1	457.8	456.6	456.6	456.6
12.5°	480.6	481.8	481.8	479.4	476.9	474.6	473.4	472.2
15°	499.8	503.3	500.9	499.8	497.4	498.6	498.6	499.8
17.5°	529.7	530.9	527.3	525.0	523.8	526.1	528.5	529.7
20°	581.2	578.9	571.7	569.3	566.8	566.8	569.3	569.3
22.5°	613.7	607.6	602.8	600.4	600.4	600.4	596.9	592.0
25°	636.4	632.8	629.1	631.6	634.0	630.3	622.1	620.7
27.5°	667.6	660.4	659.2	658.0	659.2	656.7	655.5	650.8
30°	708.3	698.7	696.3	694.0	686.7	684.2	686.7	690.3
32.5°	746.6	740.7	743.0	738.3	725.1	720.3	722.7	721.5
35°	801.8	790.9	790.9	781.3	777.8	776.6	767.0	758.6
37.5°	889.2	874.9	871.2	849.7	840.1	842.5	829.4	819.8
40°	995.9	985.1	975.5	951.5	938.4	921.6	913.2	913.2
42.5°	1066.6	1059.4	1046.2	1029.5	1015.0	986.3	975.5	981.6
45°	1144.5	1134.9	1107.4	1090.6	1077.3	1057.0	1045.1	1033.0
47.5°	1223.6	1210.4	1178.1	1156.5	1125.4	1119.3	1106.2	1089.4
50°	1293.2	1288.3	1265.5	1229.5	1190.0	1180.5	1168.5	1152.9
52.5°	1378.2	1349.5	1330.3	1314.7	1270.3	1239.3	1222.5	1229.5
55°	1517.3	1481.3	1432.1	1383.1	1373.5	1336.2	1294.4	1317.1
57.5°	1597.6	1577.1	1540.0	1462.0	1423.7	1398.5	1371.0	1350.6
60°	1616.7	1579.6	1571.2	1512.4	1451.3	1398.5	1409.4	1361.4
62.5°	1653.9	1603.5	1556.8	1510.1	1472.9	1401.0	1398.5	1373.5
63°	1665.8	1615.6	1566.4	1510.1	1476.5	1409.4	1396.2	1383.1
65°	1663.4	1620.3	1583.1	1510.1	1459.7	1433.3	1368.6	1398.5
67.5°	1617.9	1582.0	1538.8	1488.4	1404.6	1384.2	1338.7	1344.6
70°	1544.8	1498.0	1457.3	1410.6	1343.4	1296.7	1269.2	1246.3
72.5°	1430.9	1389.0	1345.8	1302.8	1242.8	1186.5	1167.2	1142.2
75°	1279.9	1239.3	1199.6	1159.0	1102.5	1052.3	1031.8	1013.8
77.5°	1107.4	1072.6	1016.3	977.9	945.6	891.7	872.5	853.2
80°	883.3	866.5	825.7	775.4	758.6	705.9	691.5	666.3
82.5°	642.4	625.6	593.2	558.4	538.1	510.5	486.5	469.9
85°	391.9	373.9	357.1	325.9	314.0	293.6	274.5	264.9
87.5°	141.4	127.0	113.9	99.5	92.2	77.9	75.4	68.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)