

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: P197810

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
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-CG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5984.4 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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



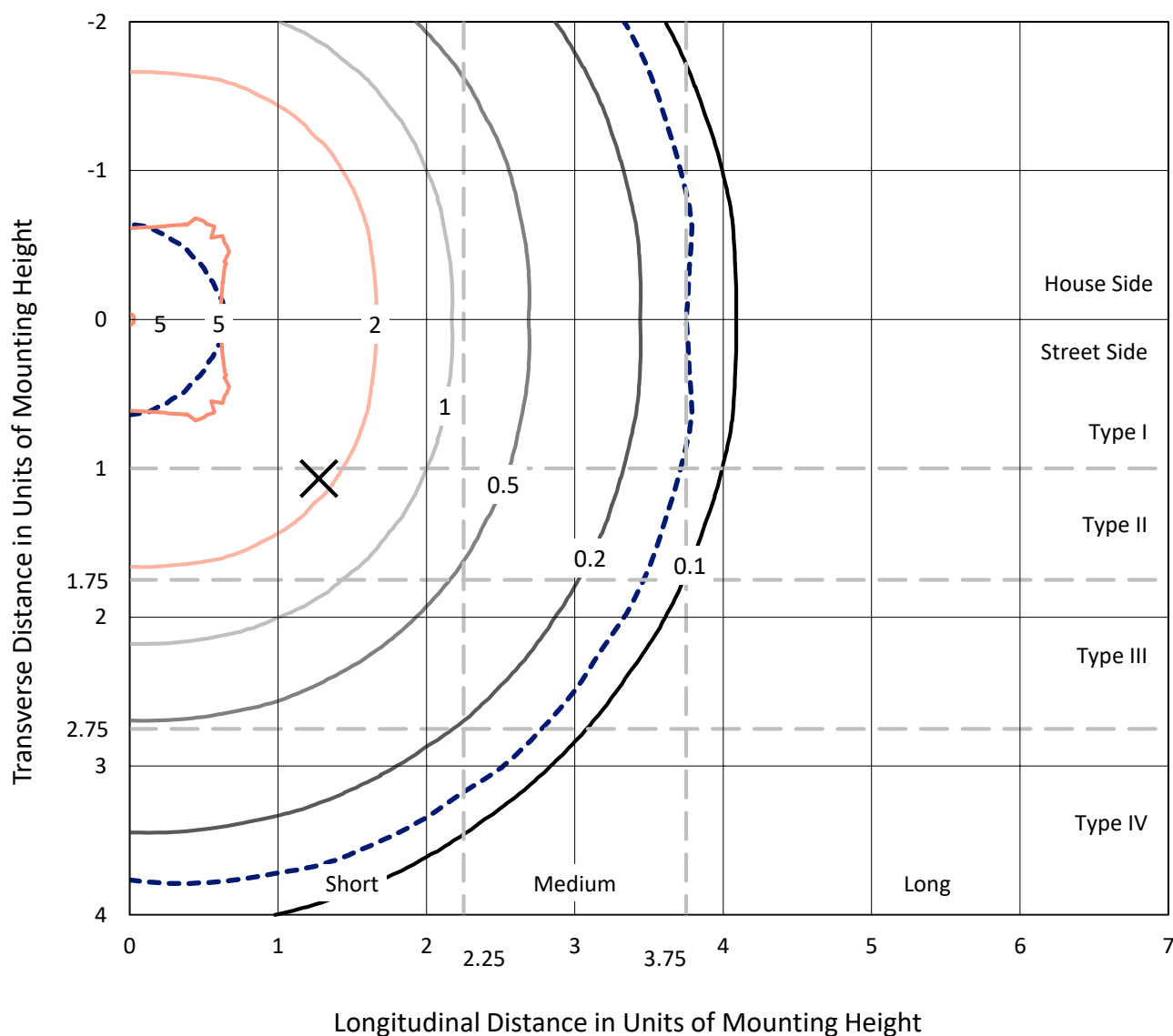
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

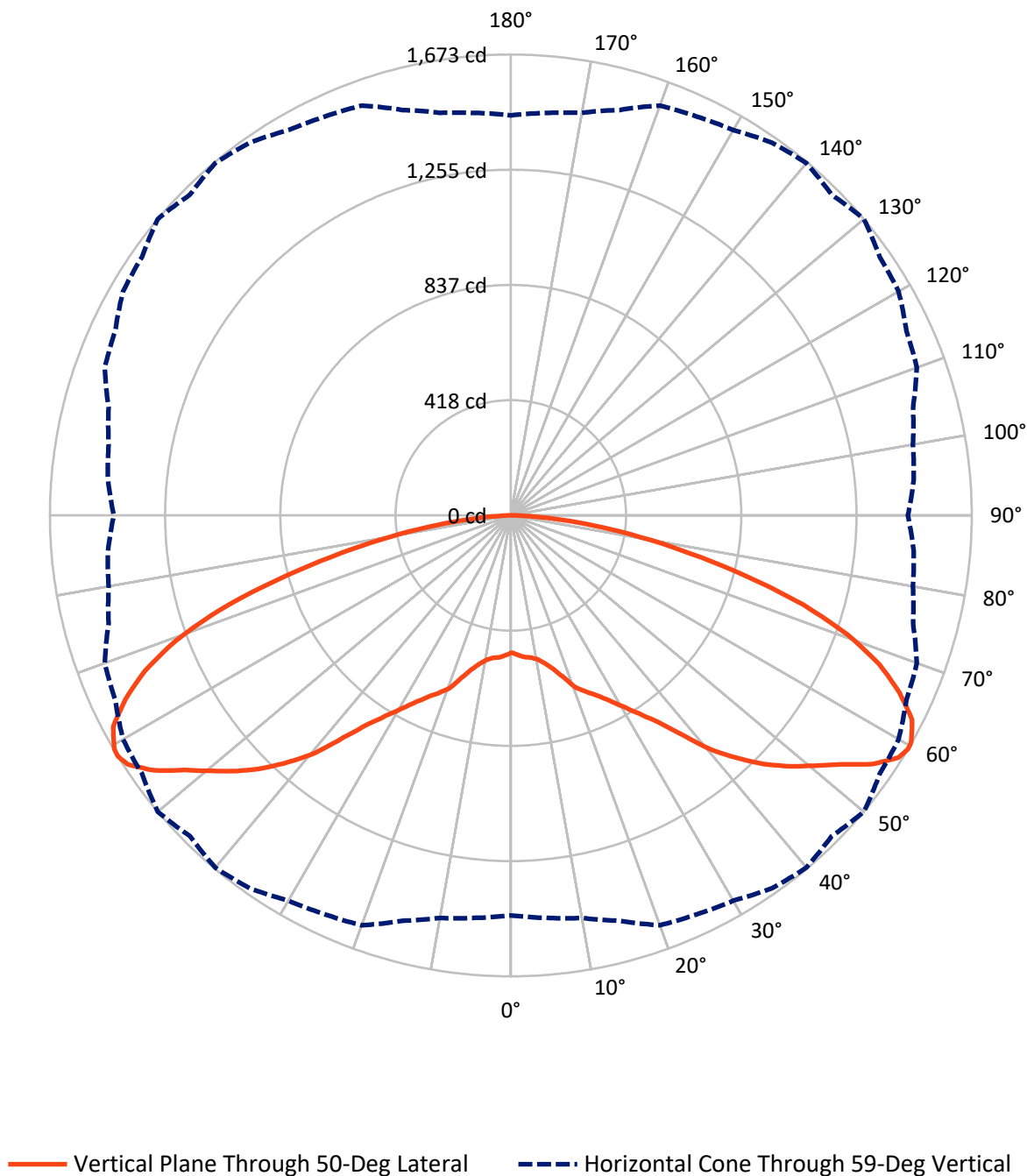


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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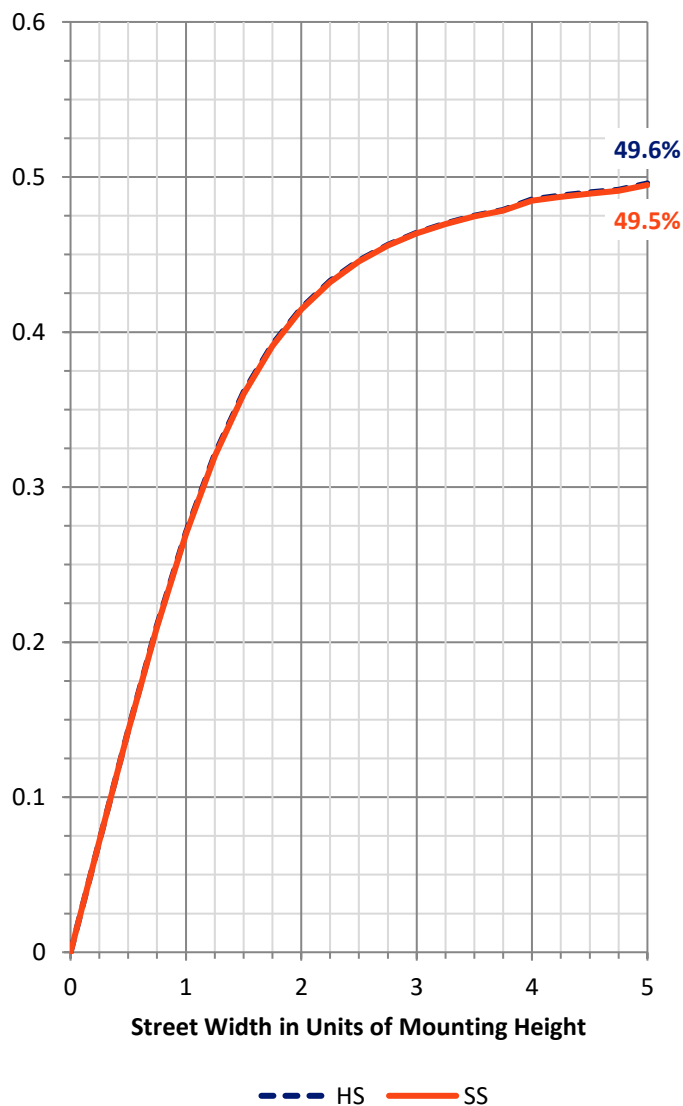
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2992.2	0.0	2992.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2992.2	0.0	2992.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5984.4	0.0	5984.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	0.8
10°-20°	167.1	2.8
20°-30°	336.4	5.6
30°-40°	578.8	9.7
40°-50°	955.6	16.0
50°-60°	1345.6	22.5
60°-70°	1439.5	24.1
70°-80°	914.3	15.3
80°-90°	197.6	3.3
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°	5984.4	100.0
0°-180°	5984.4	100.0

Coefficient of Utilization



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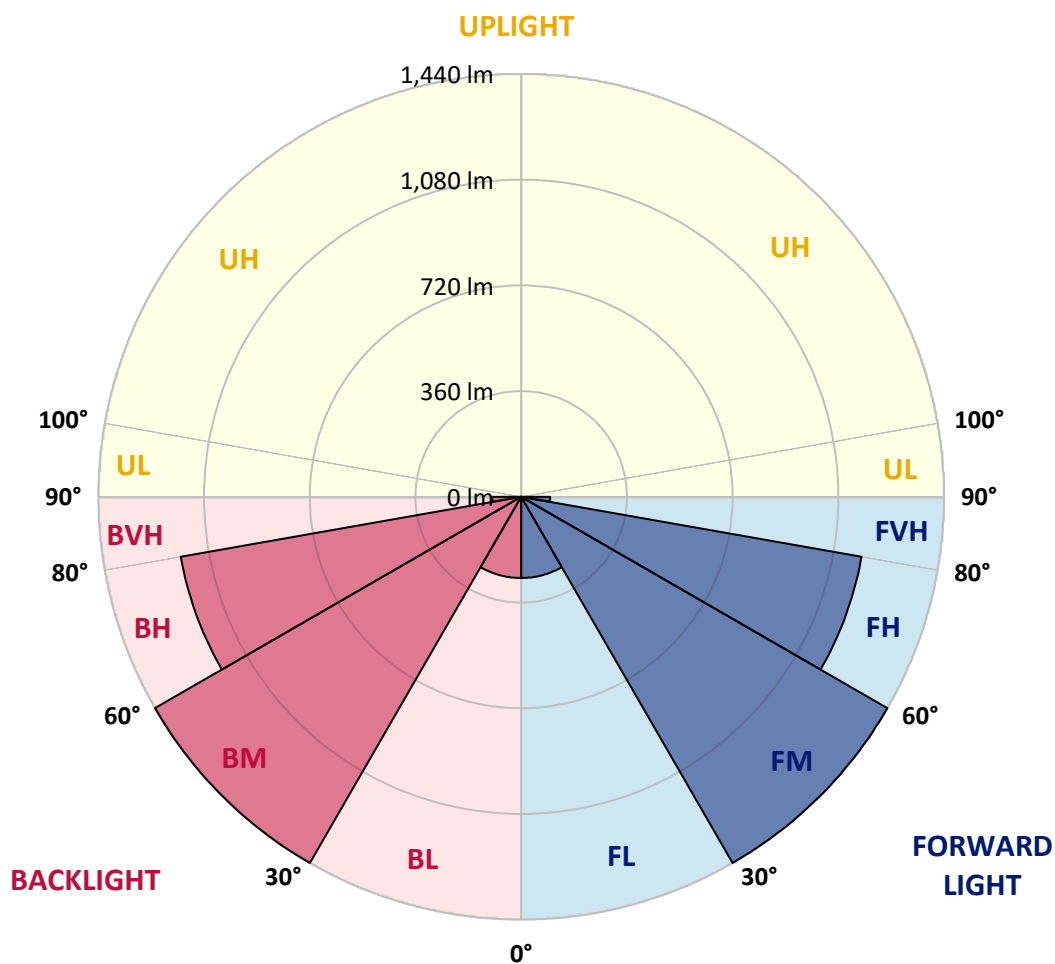
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.5	4.6			
FM	(30°-60°)	1440.0	24.1			
FH	(60°-80°)	1176.9	19.7			G1/1800
FVH	(80°-90°)	98.8	1.7			G1/100
BL	(0°-30°)	276.5	4.6	B1/500		
BM	(30°-60°)	1440.0	24.1	B2/2500		
BH	(60°-80°)	1176.9	19.7	B3/2500		G1/1800
BVH	(80°-90°)	98.8	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	508.6	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3
5°	511.3	511.3	512.6	512.6	513.9	513.9	513.9	515.3	515.3	515.3	516.6
7.5°	516.6	515.3	516.6	516.6	516.6	517.9	517.9	517.9	519.2	520.6	520.6
10°	533.8	532.5	533.8	533.8	533.8	531.2	531.2	532.5	531.2	531.2	531.2
12.5°	553.7	553.7	555.0	556.3	556.3	555.0	553.7	552.4	551.0	551.0	551.0
15°	572.2	573.6	574.9	577.5	578.9	578.9	580.2	581.5	580.2	580.2	578.9
17.5°	601.4	604.0	605.3	606.7	606.7	606.7	609.3	613.3	617.3	619.9	617.3
20°	650.4	651.7	654.4	654.4	653.0	654.4	657.0	658.3	661.0	663.6	665.0
22.5°	683.5	686.1	690.1	690.1	688.8	690.1	692.8	692.8	690.1	691.4	694.1
25°	711.3	712.6	715.3	716.6	717.9	724.6	729.9	728.5	723.2	724.6	723.2
27.5°	744.4	747.1	749.7	749.7	749.7	753.7	759.0	761.6	765.6	764.3	760.3
30°	788.1	792.1	793.4	792.1	794.8	798.7	797.4	800.1	806.7	813.3	805.4
32.5°	822.6	826.6	830.5	835.8	845.1	850.4	847.7	849.1	853.0	858.3	858.3
35°	874.2	880.9	883.5	884.8	894.1	904.7	912.7	919.3	918.0	914.0	920.6
37.5°	952.4	959.0	961.7	967.0	978.9	981.5	993.5	1009.3	1014.6	1009.3	1009.3
40°	1035.8	1042.5	1055.7	1067.6	1086.2	1090.1	1104.7	1111.3	1124.6	1125.9	1118.0
42.5°	1104.7	1112.7	1115.3	1135.2	1160.4	1178.9	1194.8	1196.1	1205.4	1213.3	1204.1
45°	1178.9	1185.5	1189.5	1208.0	1221.3	1243.8	1269.0	1279.6	1283.5	1282.2	1287.5
47.5°	1247.8	1257.0	1261.0	1275.6	1291.5	1310.0	1324.6	1355.1	1361.7	1348.4	1360.4
50°	1290.2	1300.8	1310.0	1341.8	1369.6	1384.2	1396.1	1421.3	1435.9	1423.9	1427.9
52.5°	1356.4	1359.0	1367.0	1380.2	1421.3	1470.3	1483.6	1491.5	1512.7	1519.3	1500.8
55°	1446.5	1455.7	1462.4	1479.6	1496.8	1531.2	1589.5	1600.1	1594.8	1626.6	1593.5
57.5°	1459.7	1476.9	1496.8	1535.2	1569.7	1580.3	1614.7	1655.8	1651.8	1655.8	1658.4
59°	1451.8	1466.3	1483.6	1523.3	1582.9	1597.5	1614.7	1651.8	1669.0	1646.5	1673.0
60°	1454.4	1465.0	1474.3	1506.1	1569.7	1602.8	1613.4	1635.9	1669.0	1638.5	1670.3
62.5°	1443.8	1457.1	1467.7	1486.2	1516.7	1563.0	1604.1	1593.5	1641.2	1617.3	1634.6
65°	1386.9	1401.4	1422.6	1449.1	1484.9	1498.1	1539.2	1561.7	1551.1	1577.6	1549.8
67.5°	1291.5	1304.7	1318.0	1349.8	1389.5	1406.7	1417.3	1458.4	1443.8	1474.3	1442.5
70°	1164.3	1178.9	1197.4	1214.7	1250.4	1265.0	1276.9	1295.5	1300.8	1300.8	1298.1
72.5°	1012.0	1023.9	1035.8	1053.1	1074.3	1087.5	1092.8	1096.8	1118.0	1110.0	1111.3
75°	839.8	851.7	857.0	863.6	878.2	876.9	882.2	879.5	892.8	887.5	884.8
77.5°	657.0	661.0	675.5	675.5	671.6	678.2	671.6	667.6	665.0	667.6	667.6
80°	455.7	467.6	476.9	483.5	486.1	483.5	484.8	479.5	479.5	475.5	476.9
82.5°	280.8	292.7	296.7	303.3	304.7	304.7	304.7	300.7	302.0	298.0	300.7
85°	137.8	137.8	143.1	149.7	151.0	153.7	153.7	153.7	153.7	153.7	155.0
87.5°	34.4	34.4	37.1	41.1	41.1	42.4	43.7	45.0	45.0	46.4	46.4
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°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3
5°	516.6	515.3	515.3	513.9	513.9	512.6	512.6	512.6
7.5°	521.9	521.9	520.6	519.2	517.9	517.9	519.2	519.2
10°	532.5	535.1	536.5	536.5	535.1	535.1	533.8	533.8
12.5°	549.7	552.4	555.0	557.7	557.7	556.3	553.7	552.4
15°	576.2	576.2	577.5	578.9	578.9	576.2	570.9	570.9
17.5°	612.0	609.3	605.3	606.7	608.0	606.7	601.4	604.0
20°	661.0	655.7	653.0	650.4	655.7	655.7	647.7	647.7
22.5°	696.7	692.8	686.1	684.8	688.8	691.4	684.8	680.8
25°	727.2	728.5	720.6	716.6	717.9	719.3	710.0	711.3
27.5°	760.3	761.6	757.7	751.1	748.4	752.4	745.8	743.1
30°	800.1	798.7	801.4	793.4	786.8	790.8	790.8	784.2
32.5°	851.7	847.7	849.1	839.8	831.9	830.5	825.2	817.3
35°	921.9	911.3	903.4	898.1	883.5	880.9	880.9	871.6
37.5°	1013.3	997.4	982.9	982.9	960.3	953.7	957.7	945.8
40°	1115.3	1110.0	1087.5	1083.5	1059.7	1043.8	1043.8	1029.2
42.5°	1189.5	1196.1	1169.6	1153.7	1137.8	1112.7	1115.3	1096.8
45°	1270.3	1266.3	1243.8	1216.0	1210.7	1184.2	1186.8	1168.3
47.5°	1347.1	1323.3	1312.7	1284.9	1272.9	1242.5	1251.8	1237.2
50°	1421.3	1394.8	1384.2	1351.1	1335.2	1302.1	1303.4	1276.9
52.5°	1498.1	1474.3	1458.4	1416.0	1388.2	1364.3	1359.0	1347.1
55°	1597.5	1572.3	1533.9	1494.2	1473.0	1438.5	1442.5	1423.9
57.5°	1635.9	1620.0	1578.9	1555.1	1515.3	1480.9	1473.0	1439.8
59°	1634.6	1625.3	1584.2	1568.3	1511.4	1482.2	1467.7	1441.2
60°	1625.3	1622.6	1581.6	1561.7	1502.1	1475.6	1462.4	1445.1
62.5°	1597.5	1596.1	1549.8	1525.9	1476.9	1455.7	1447.8	1425.3
65°	1556.4	1533.9	1498.1	1482.2	1431.9	1416.0	1393.5	1371.0
67.5°	1458.4	1408.1	1402.8	1382.9	1339.2	1319.3	1304.7	1283.5
70°	1296.8	1263.7	1263.7	1238.5	1208.0	1198.8	1178.9	1155.1
72.5°	1095.4	1087.5	1091.5	1062.3	1047.8	1042.5	1025.2	1004.1
75°	875.6	876.9	872.9	866.3	862.3	863.6	845.1	835.8
77.5°	663.6	675.5	672.9	663.6	672.9	671.6	655.7	651.7
80°	472.9	478.2	480.8	475.5	480.8	476.9	463.6	462.3
82.5°	298.0	299.4	302.0	296.7	298.0	296.7	287.4	287.4
85°	152.3	157.6	151.0	145.7	145.7	140.4	137.8	139.1
87.5°	45.0	47.7	42.4	42.4	39.7	37.1	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)