

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: P197882

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-WQ-SG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING 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: 5999.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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



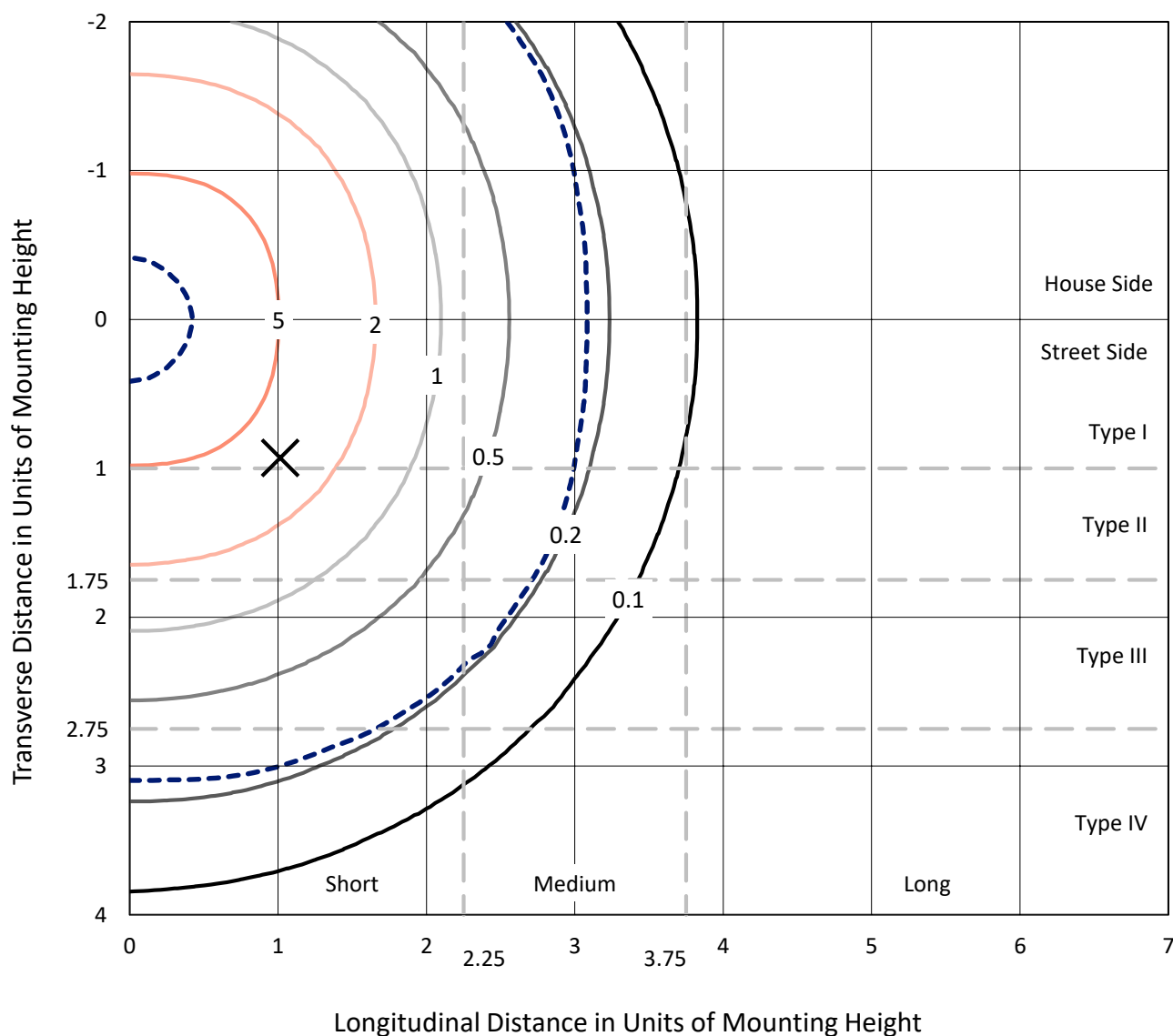
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

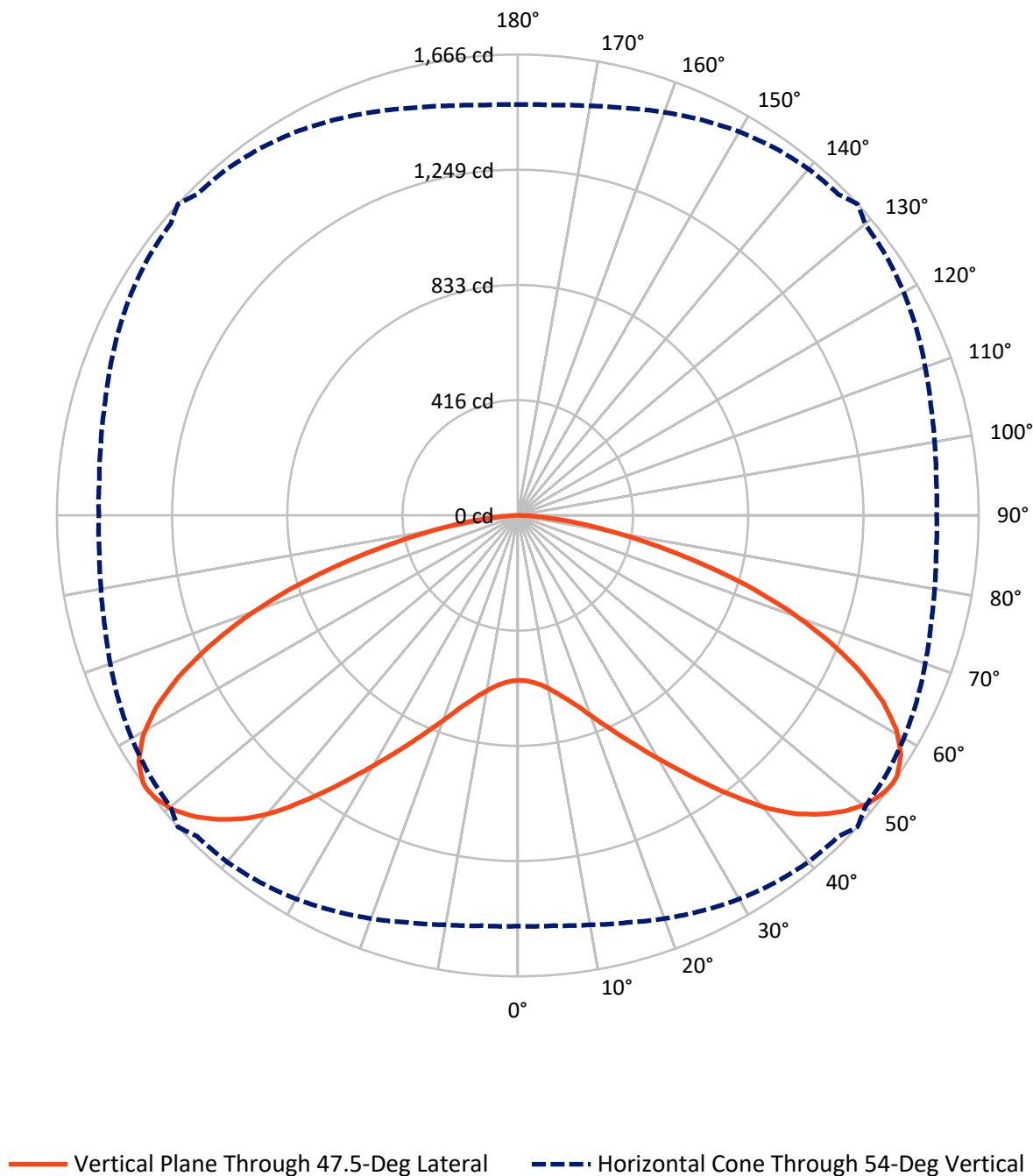


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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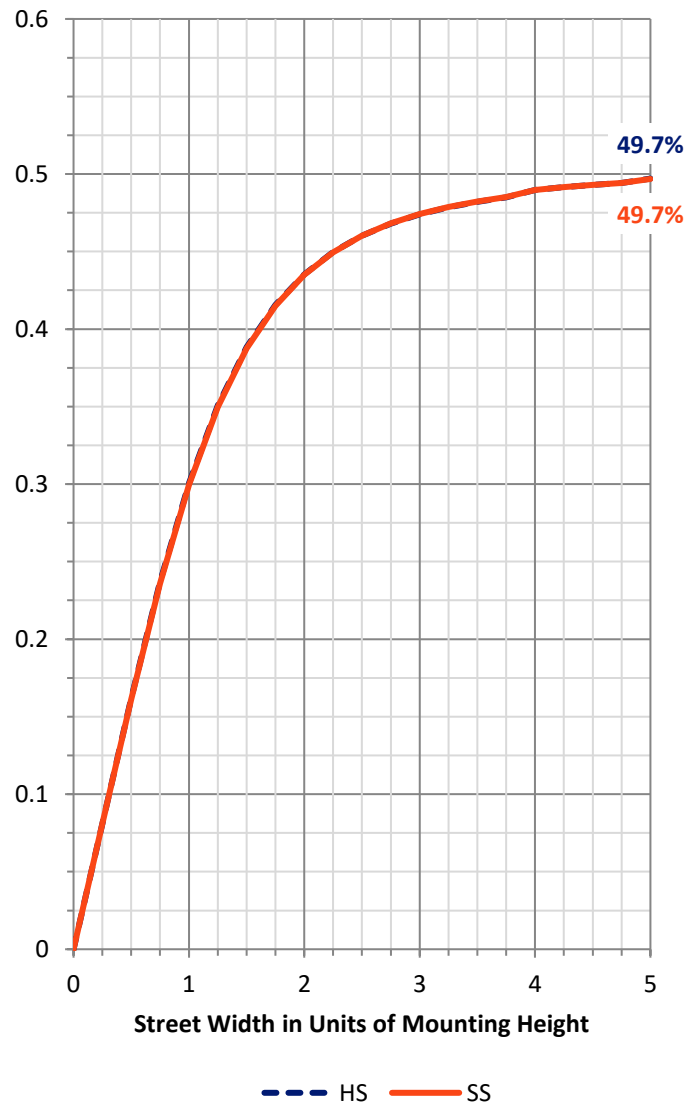
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3000.0	0.0	3000.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3000.0	0.0	3000.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5999.9	0.0	5999.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	1.0
10°-20°	199.4	3.3
20°-30°	410.5	6.8
30°-40°	734.1	12.2
40°-50°	1126.4	18.8
50°-60°	1388.7	23.1
60°-70°	1256.4	20.9
70°-80°	691.8	11.5
80°-90°	133.8	2.2
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°	5999.9	100.0
0°-180°	5999.9	100.0

Coefficient of Utilization



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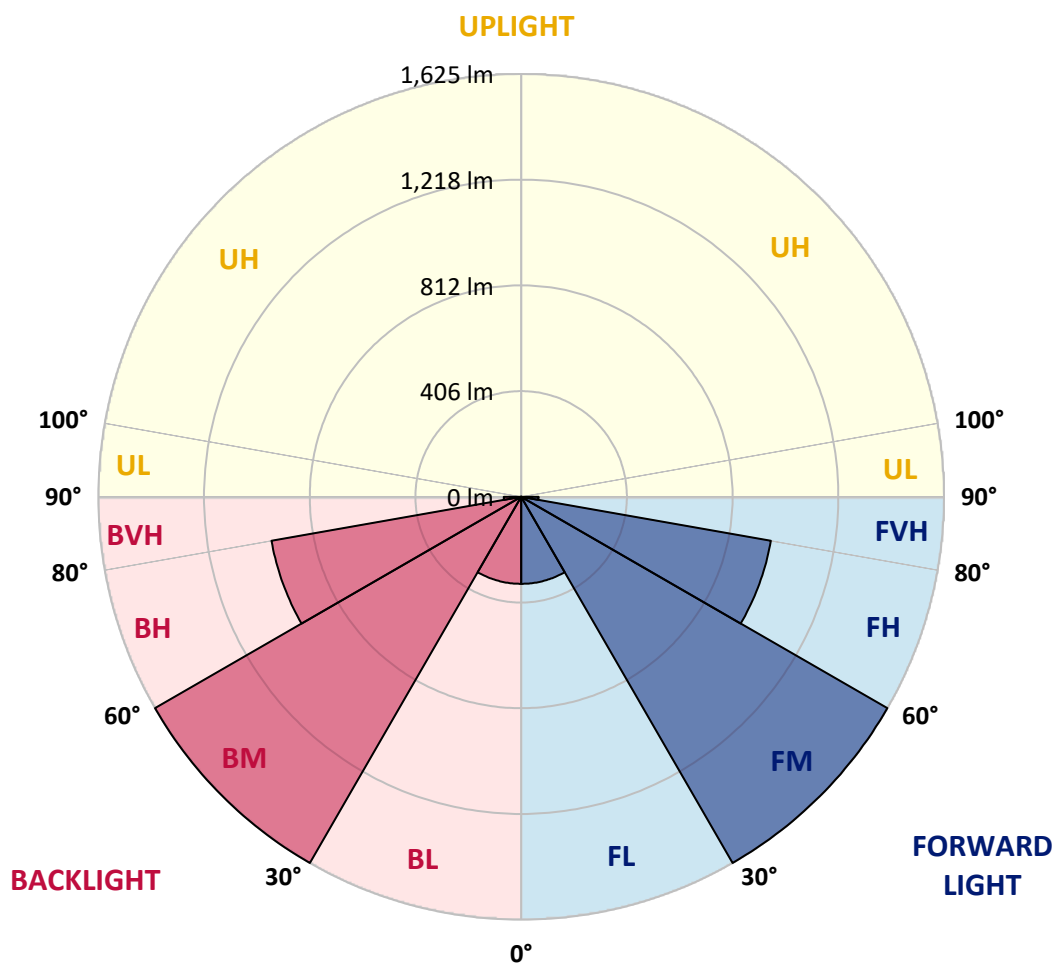
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.4	5.6			
FM	(30°-60°)	1624.6	27.1			
FH	(60°-80°)	974.1	16.2			G1/1800
FVH	(80°-90°)	66.9	1.1			G1/100
BL	(0°-30°)	334.4	5.6	B1/500		
BM	(30°-60°)	1624.6	27.1	B2/2500		
BH	(60°-80°)	974.1	16.2	B2/1000		G1/1800
BVH	(80°-90°)	66.9	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8
2.5°	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3
5°	606.1	606.1	606.1	607.4	606.1	606.1	606.1	606.1	606.1	606.1	606.1
7.5°	619.1	619.1	619.1	619.1	619.1	619.1	617.8	617.8	619.1	617.8	619.1
10°	637.2	635.9	635.9	637.2	637.2	635.9	637.2	637.2	637.2	637.2	638.5
12.5°	660.5	660.5	661.8	661.8	661.8	663.1	663.1	661.8	663.1	663.1	663.1
15°	691.6	691.6	691.6	691.6	692.9	694.2	692.9	692.9	691.6	691.6	694.2
17.5°	727.9	727.9	727.9	727.9	730.4	730.4	729.1	730.4	731.7	731.7	730.4
20°	771.9	770.6	769.3	770.6	773.2	773.2	774.5	775.8	775.8	775.8	778.4
22.5°	818.5	817.2	819.8	821.1	822.4	823.7	823.7	825.0	827.6	826.3	830.2
25°	870.3	869.0	870.3	872.9	878.1	878.1	879.4	882.0	882.0	880.7	889.7
27.5°	928.6	928.6	929.9	935.1	936.4	937.7	941.5	944.1	948.0	948.0	955.8
30°	992.1	990.8	993.4	998.5	1002.4	1006.3	1011.5	1018.0	1019.3	1020.6	1028.3
32.5°	1056.8	1056.8	1059.4	1068.5	1074.9	1081.4	1089.2	1095.7	1098.3	1098.3	1109.9
35°	1125.5	1126.7	1133.2	1139.7	1152.7	1160.4	1168.2	1177.3	1182.4	1185.0	1200.6
37.5°	1198.0	1201.9	1207.0	1216.1	1229.1	1242.0	1253.7	1267.9	1275.7	1278.3	1295.1
40°	1266.6	1271.8	1279.6	1292.5	1305.5	1323.6	1337.9	1352.1	1361.2	1366.3	1392.2
42.5°	1334.0	1336.6	1345.6	1359.9	1376.7	1393.5	1413.0	1428.5	1437.6	1445.3	1473.8
45°	1387.1	1389.7	1401.3	1418.2	1437.6	1458.3	1477.7	1495.9	1504.9	1511.4	1539.9
47.5°	1431.1	1436.3	1449.2	1466.1	1485.5	1510.1	1532.1	1550.3	1561.9	1565.8	1595.6
50°	1463.5	1471.3	1482.9	1502.3	1525.6	1550.3	1573.6	1593.0	1605.9	1611.1	1638.3
52.5°	1481.6	1488.1	1501.0	1520.5	1547.7	1572.3	1596.9	1616.3	1630.5	1635.7	1660.3
54°	1484.2	1488.1	1502.3	1523.1	1550.3	1576.2	1600.8	1620.2	1634.4	1639.6	1665.5
55°	1481.6	1484.2	1499.7	1519.2	1547.7	1573.6	1598.2	1617.6	1633.1	1638.3	1662.9
57.5°	1455.7	1459.6	1472.5	1493.3	1519.2	1549.0	1572.3	1591.7	1607.2	1609.8	1633.1
60°	1402.6	1407.8	1419.4	1441.5	1467.4	1493.3	1516.6	1533.4	1547.7	1555.4	1572.3
62.5°	1326.2	1328.8	1340.4	1359.9	1383.2	1410.4	1428.5	1445.3	1458.3	1466.1	1480.3
65°	1217.4	1229.1	1238.1	1253.7	1271.8	1293.8	1317.1	1330.1	1336.6	1349.5	1359.9
67.5°	1095.7	1103.4	1112.5	1126.7	1138.4	1152.7	1174.7	1186.3	1194.1	1203.2	1212.2
70°	959.7	957.1	967.5	975.2	988.2	997.2	1011.5	1018.0	1027.0	1032.2	1047.7
72.5°	797.8	801.7	810.7	819.8	823.7	826.3	837.9	841.8	849.6	847.0	866.4
75°	651.4	645.0	647.6	648.9	651.4	648.9	656.6	660.5	664.4	660.5	670.9
77.5°	492.1	484.4	487.0	485.7	485.7	483.1	481.8	481.8	483.1	480.5	487.0
80°	339.3	335.4	336.7	339.3	332.8	334.1	326.4	326.4	326.4	326.4	329.0
82.5°	209.8	204.6	203.3	204.6	204.6	200.7	202.0	196.9	195.6	194.3	205.9
85°	102.3	99.7	102.3	99.7	98.4	98.4	95.8	97.1	94.5	93.2	101.0
87.5°	27.2	25.9	25.9	25.9	24.6	25.9	25.9	25.9	25.9	27.2	31.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8
2.5°	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3	597.0
5°	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1
7.5°	619.1	619.1	617.8	617.8	617.8	617.8	617.8	617.8	617.8
10°	637.2	638.5	635.9	635.9	637.2	635.9	635.9	634.6	634.6
12.5°	663.1	661.8	663.1	663.1	661.8	660.5	659.2	657.9	659.2
15°	692.9	691.6	691.6	691.6	690.3	690.3	689.0	690.3	689.0
17.5°	729.1	729.1	730.4	726.6	727.9	725.3	725.3	725.3	724.0
20°	775.8	774.5	773.2	769.3	770.6	768.0	766.7	765.4	764.1
22.5°	826.3	823.7	822.4	818.5	819.8	817.2	813.3	810.7	810.7
25°	882.0	879.4	876.8	875.5	874.2	869.0	866.4	862.5	865.1
27.5°	948.0	942.8	939.0	933.8	935.1	928.6	926.0	923.4	923.4
30°	1019.3	1015.4	1008.9	1005.0	1003.7	997.2	992.1	989.5	988.2
32.5°	1097.0	1094.4	1090.5	1084.0	1081.4	1071.1	1067.2	1063.3	1062.0
35°	1188.9	1182.4	1178.6	1169.5	1160.4	1153.9	1144.9	1142.3	1139.7
37.5°	1274.4	1274.4	1267.9	1257.6	1244.6	1235.5	1227.8	1222.6	1218.7
40°	1365.1	1362.5	1352.1	1343.0	1330.1	1317.1	1302.9	1297.7	1295.1
42.5°	1445.3	1440.2	1429.8	1418.2	1405.2	1389.7	1374.1	1366.3	1365.1
45°	1512.7	1506.2	1495.9	1480.3	1463.5	1447.9	1433.7	1425.9	1422.0
47.5°	1567.1	1559.3	1546.4	1532.1	1512.7	1494.6	1480.3	1472.5	1467.4
50°	1607.2	1600.8	1586.5	1568.4	1549.0	1528.2	1514.0	1504.9	1501.0
52.5°	1633.1	1624.1	1608.5	1589.1	1567.1	1546.4	1529.5	1519.2	1515.3
54°	1638.3	1628.0	1611.1	1590.4	1567.1	1545.1	1529.5	1517.9	1514.0
55°	1635.7	1625.4	1607.2	1587.8	1563.2	1541.2	1524.3	1512.7	1508.8
57.5°	1608.5	1596.9	1580.0	1559.3	1533.4	1511.4	1495.9	1482.9	1479.0
60°	1550.3	1539.9	1520.5	1502.3	1476.4	1454.4	1437.6	1424.6	1420.7
62.5°	1460.9	1451.8	1435.0	1416.9	1389.7	1370.2	1353.4	1345.6	1335.3
65°	1341.7	1335.3	1318.4	1296.4	1277.0	1257.6	1240.7	1235.5	1229.1
67.5°	1199.3	1190.2	1183.7	1161.7	1146.2	1128.0	1111.2	1100.8	1098.3
70°	1030.9	1027.0	1020.6	999.8	990.8	975.2	963.6	954.5	951.9
72.5°	849.6	845.7	844.4	834.1	822.4	808.2	803.0	795.2	793.9
75°	660.5	657.9	660.5	652.7	648.9	645.0	642.4	642.4	638.5
77.5°	477.9	481.8	483.1	483.1	485.7	485.7	488.3	484.4	480.5
80°	325.1	329.0	327.7	330.3	329.0	338.0	331.5	336.7	331.5
82.5°	195.6	200.7	200.7	200.7	205.9	204.6	204.6	207.2	205.9
85°	95.8	97.1	95.8	94.5	101.0	99.7	99.7	98.4	99.7
87.5°	28.5	25.9	27.2	24.6	27.2	23.3	25.9	25.9	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)