

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: P197884

Luminaire Tested: **TT-C4-LED-E1-WQ-SG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197884
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5898.2 lumens
Efficiency: N/A
Efficacy: 101.7 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



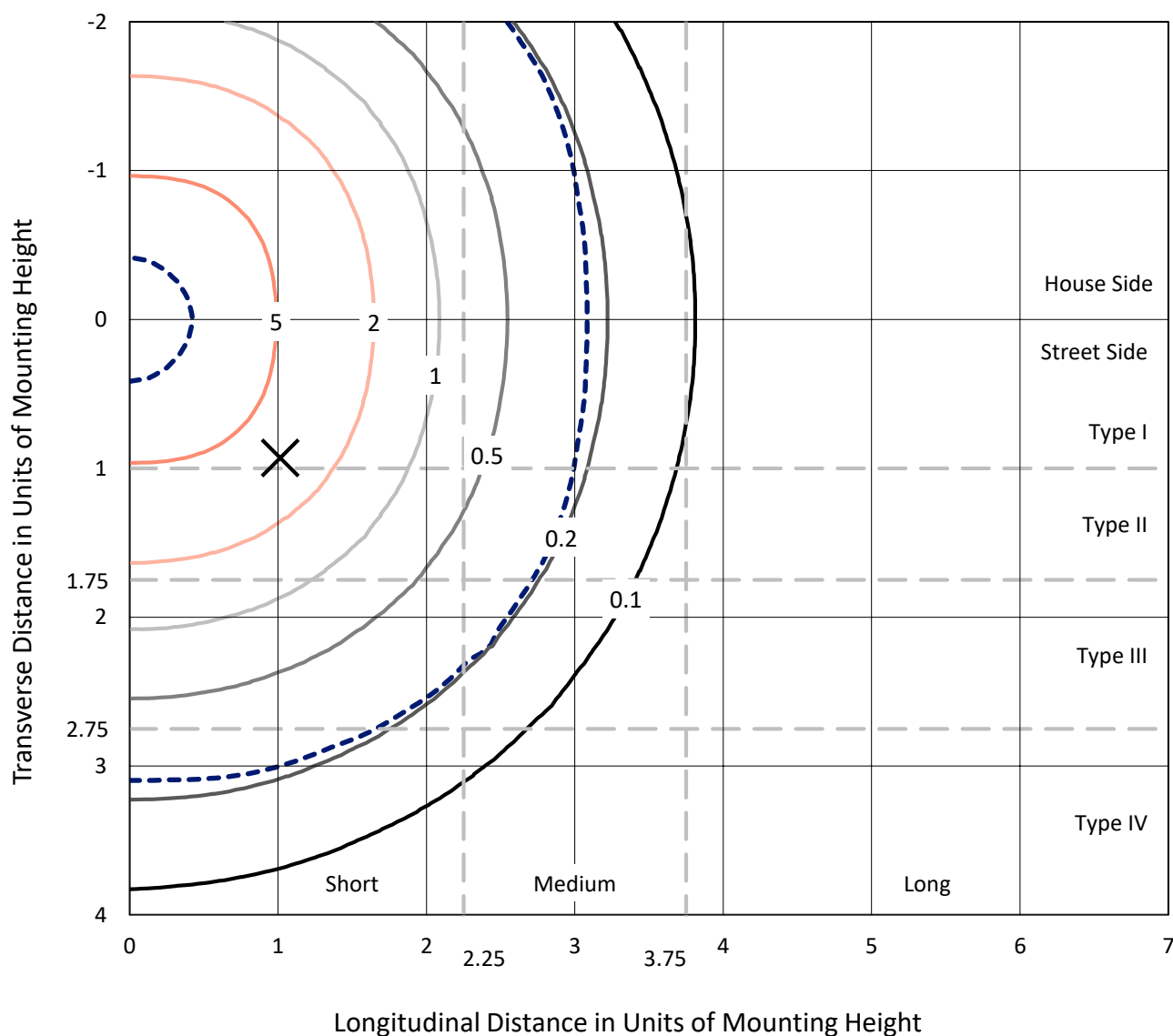
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

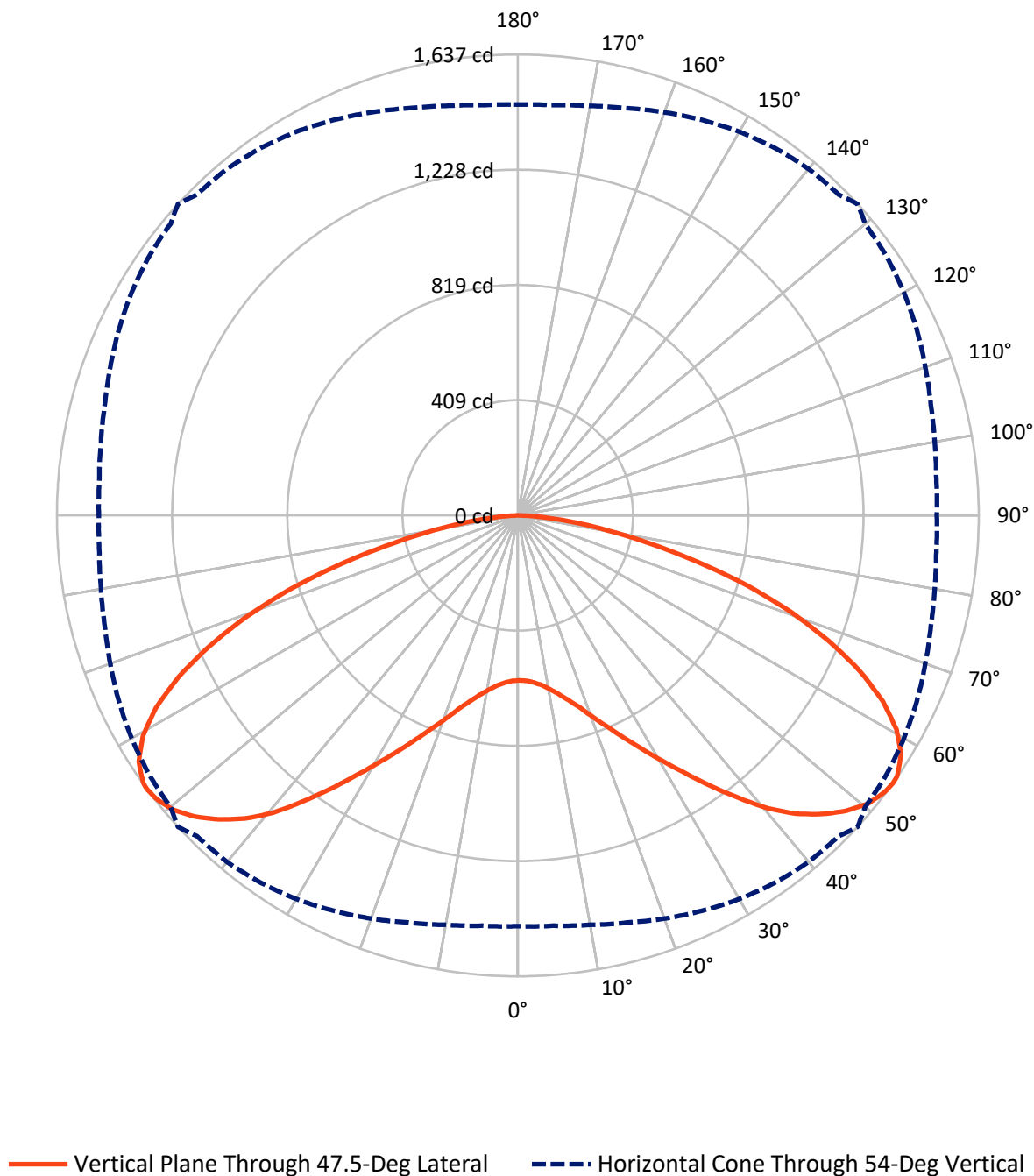


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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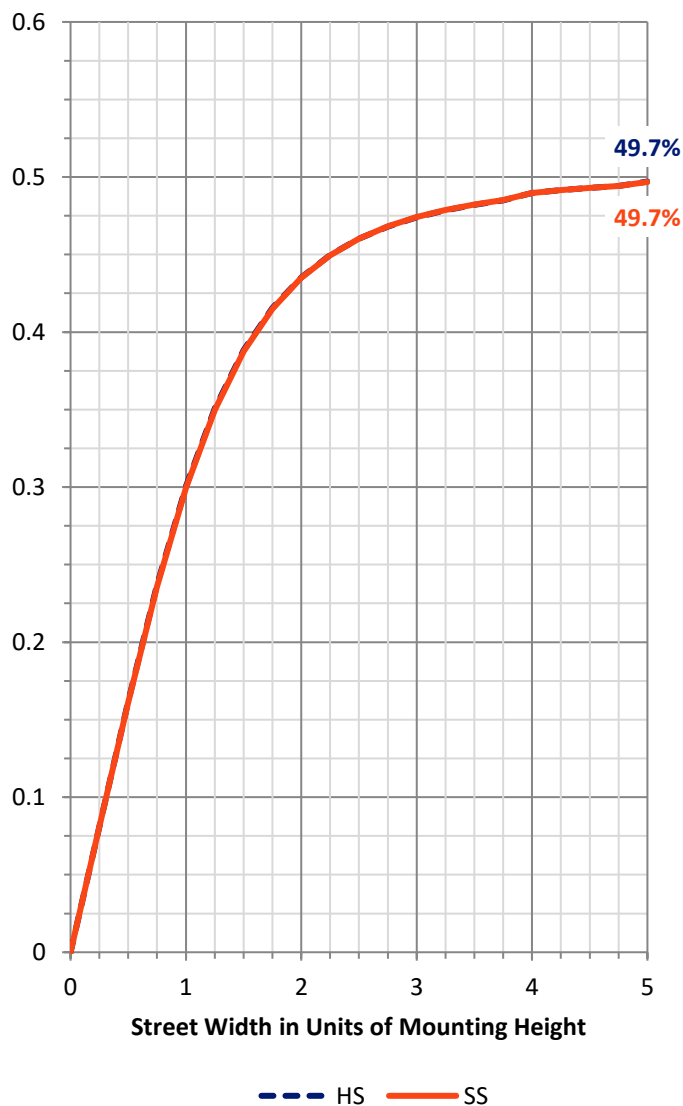
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2949.1	0.0	2949.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2949.1	0.0	2949.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5898.2	0.0	5898.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	1.0
10°-20°	196.0	3.3
20°-30°	403.6	6.8
30°-40°	721.7	12.2
40°-50°	1107.3	18.8
50°-60°	1365.2	23.1
60°-70°	1235.1	20.9
70°-80°	680.0	11.5
80°-90°	131.5	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°	5898.2	100.0
0°-180°	5898.2	100.0

Coefficient of Utilization



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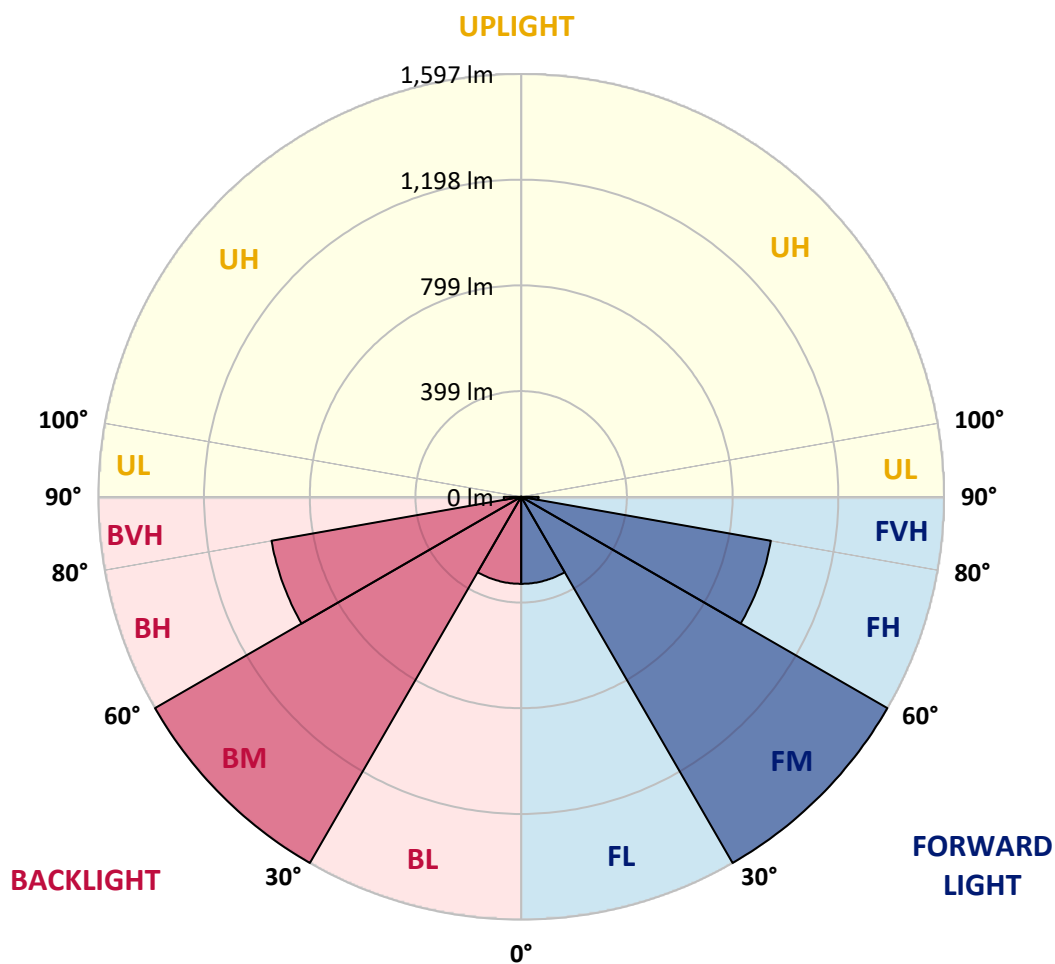
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.7	5.6			
FM	(30°-60°)	1597.1	27.1			
FH	(60°-80°)	957.6	16.2			G1/1800
FVH	(80°-90°)	65.8	1.1			G1/100
BL	(0°-30°)	328.7	5.6	B1/500		
BM	(30°-60°)	1597.1	27.1	B2/2500		
BH	(60°-80°)	957.6	16.2	B2/1000		G1/1800
BVH	(80°-90°)	65.8	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°	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
2.5°	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2
5°	595.8	595.8	595.8	597.1	595.8	595.8	595.8	595.8	595.8	595.8	595.8
7.5°	608.6	608.6	608.6	608.6	608.6	608.6	607.3	607.3	608.6	607.3	608.6
10°	626.4	625.1	625.1	626.4	626.4	625.1	626.4	626.4	626.4	626.4	627.7
12.5°	649.3	649.3	650.6	650.6	650.6	651.9	651.9	650.6	651.9	651.9	651.9
15°	679.9	679.9	679.9	679.9	681.1	682.4	681.1	681.1	679.9	679.9	682.4
17.5°	715.5	715.5	715.5	715.5	718.1	718.1	716.8	718.1	719.3	719.3	718.1
20°	758.8	757.5	756.3	757.5	760.1	760.1	761.4	762.6	762.6	762.6	765.2
22.5°	804.6	803.4	805.9	807.2	808.5	809.7	809.7	811.0	813.6	812.3	816.1
25°	855.6	854.3	855.6	858.1	863.2	863.2	864.5	867.0	867.0	865.8	874.7
27.5°	912.9	912.9	914.1	919.2	920.5	921.8	925.6	928.1	932.0	932.0	939.6
30°	975.3	974.0	976.5	981.6	985.4	989.3	994.3	1000.7	1002.0	1003.3	1010.9
32.5°	1038.9	1038.9	1041.5	1050.4	1056.7	1063.1	1070.7	1077.1	1079.7	1079.7	1091.1
35°	1106.4	1107.7	1114.0	1120.4	1133.1	1140.8	1148.4	1157.3	1162.4	1165.0	1180.2
37.5°	1177.7	1181.5	1186.6	1195.5	1208.2	1221.0	1232.4	1246.4	1254.1	1256.6	1273.2
40°	1245.2	1250.3	1257.9	1270.6	1283.4	1301.2	1315.2	1329.2	1338.1	1343.2	1368.7
42.5°	1311.4	1313.9	1322.8	1336.8	1353.4	1369.9	1389.0	1404.3	1413.2	1420.9	1448.9
45°	1363.6	1366.1	1377.6	1394.1	1413.2	1433.6	1452.7	1470.5	1479.4	1485.8	1513.8
47.5°	1406.9	1412.0	1424.7	1441.2	1460.3	1484.5	1506.2	1524.0	1535.4	1539.3	1568.6
50°	1438.7	1446.3	1457.8	1476.9	1499.8	1524.0	1546.9	1566.0	1578.7	1583.8	1610.6
52.5°	1456.5	1462.9	1475.6	1494.7	1521.4	1545.6	1569.8	1588.9	1602.9	1608.0	1632.2
54°	1459.1	1462.9	1476.9	1497.3	1524.0	1549.5	1573.6	1592.7	1606.7	1611.8	1637.3
55°	1456.5	1459.1	1474.3	1493.4	1521.4	1546.9	1571.1	1590.2	1605.5	1610.6	1634.8
57.5°	1431.0	1434.9	1447.6	1468.0	1493.4	1522.7	1545.6	1564.7	1580.0	1582.6	1605.5
60°	1378.8	1383.9	1395.4	1417.0	1442.5	1468.0	1490.9	1507.4	1521.4	1529.1	1545.6
62.5°	1303.7	1306.3	1317.7	1336.8	1359.7	1386.5	1404.3	1420.9	1433.6	1441.2	1455.2
65°	1196.8	1208.2	1217.2	1232.4	1250.3	1271.9	1294.8	1307.5	1313.9	1326.6	1336.8
67.5°	1077.1	1084.7	1093.7	1107.7	1119.1	1133.1	1154.8	1166.2	1173.9	1182.8	1191.7
70°	943.4	940.9	951.1	958.7	971.4	980.3	994.3	1000.7	1009.6	1014.7	1030.0
72.5°	784.3	788.1	797.0	805.9	809.7	812.3	823.7	827.6	835.2	832.7	851.8
75°	640.4	634.0	636.6	637.9	640.4	637.9	645.5	649.3	653.1	649.3	659.5
77.5°	483.8	476.2	478.7	477.4	477.4	474.9	473.6	473.6	474.9	472.3	478.7
80°	333.6	329.8	331.0	333.6	327.2	328.5	320.8	320.8	320.8	320.8	323.4
82.5°	206.3	201.2	199.9	201.2	201.2	197.3	198.6	193.5	192.2	191.0	202.4
85°	100.6	98.0	100.6	98.0	96.8	96.8	94.2	95.5	92.9	91.7	99.3
87.5°	26.7	25.5	25.5	25.5	24.2	25.5	25.5	25.5	25.5	26.7	30.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
2.5°	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	586.9
5°	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8	595.8
7.5°	608.6	608.6	607.3	607.3	607.3	607.3	607.3	607.3	607.3
10°	626.4	627.7	625.1	625.1	626.4	625.1	625.1	623.9	623.9
12.5°	651.9	650.6	651.9	651.9	650.6	649.3	648.0	646.8	648.0
15°	681.1	679.9	679.9	679.9	678.6	678.6	677.3	678.6	677.3
17.5°	716.8	716.8	718.1	714.3	715.5	713.0	713.0	713.0	711.7
20°	762.6	761.4	760.1	756.3	757.5	755.0	753.7	752.4	751.2
22.5°	812.3	809.7	808.5	804.6	805.9	803.4	799.6	797.0	797.0
25°	867.0	864.5	861.9	860.7	859.4	854.3	851.8	847.9	850.5
27.5°	932.0	926.9	923.1	918.0	919.2	912.9	910.3	907.8	907.8
30°	1002.0	998.2	991.8	988.0	986.7	980.3	975.3	972.7	971.4
32.5°	1078.4	1075.8	1072.0	1065.6	1063.1	1052.9	1049.1	1045.3	1044.0
35°	1168.8	1162.4	1158.6	1149.7	1140.8	1134.4	1125.5	1122.9	1120.4
37.5°	1252.8	1252.8	1246.4	1236.3	1223.5	1214.6	1207.0	1201.9	1198.1
40°	1341.9	1339.4	1329.2	1320.3	1307.5	1294.8	1280.8	1275.7	1273.2
42.5°	1420.9	1415.8	1405.6	1394.1	1381.4	1366.1	1350.8	1343.2	1341.9
45°	1487.1	1480.7	1470.5	1455.2	1438.7	1423.4	1409.4	1401.8	1397.9
47.5°	1540.5	1532.9	1520.2	1506.2	1487.1	1469.2	1455.2	1447.6	1442.5
50°	1580.0	1573.6	1559.6	1541.8	1522.7	1502.3	1488.3	1479.4	1475.6
52.5°	1605.5	1596.6	1581.3	1562.2	1540.5	1520.2	1503.6	1493.4	1489.6
54°	1610.6	1600.4	1583.8	1563.5	1540.5	1518.9	1503.6	1492.2	1488.3
55°	1608.0	1597.8	1580.0	1560.9	1536.7	1515.1	1498.5	1487.1	1483.2
57.5°	1581.3	1569.8	1553.3	1532.9	1507.4	1485.8	1470.5	1457.8	1454.0
60°	1524.0	1513.8	1494.7	1476.9	1451.4	1429.8	1413.2	1400.5	1396.7
62.5°	1436.1	1427.2	1410.7	1392.9	1366.1	1347.0	1330.5	1322.8	1312.6
65°	1319.0	1312.6	1296.1	1274.4	1255.3	1236.3	1219.7	1214.6	1208.2
67.5°	1179.0	1170.0	1163.7	1142.0	1126.8	1108.9	1092.4	1082.2	1079.7
70°	1013.4	1009.6	1003.3	982.9	974.0	958.7	947.2	938.3	935.8
72.5°	835.2	831.4	830.1	819.9	808.5	794.5	789.4	781.7	780.5
75°	649.3	646.8	649.3	641.7	637.9	634.0	631.5	631.5	627.7
77.5°	469.8	473.6	474.9	474.9	477.4	477.4	480.0	476.2	472.3
80°	319.6	323.4	322.1	324.7	323.4	332.3	325.9	331.0	325.9
82.5°	192.2	197.3	197.3	197.3	202.4	201.2	201.2	203.7	202.4
85°	94.2	95.5	94.2	92.9	99.3	98.0	98.0	96.8	98.0
87.5°	28.0	25.5	26.7	24.2	26.7	22.9	25.5	25.5	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)