

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: P197673

Luminaire Tested: **TT-C6-LED-E1-MQ-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-MQ-CG-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7339.3 lumens
Efficiency: N/A
Efficacy: 68.0 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): 108
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

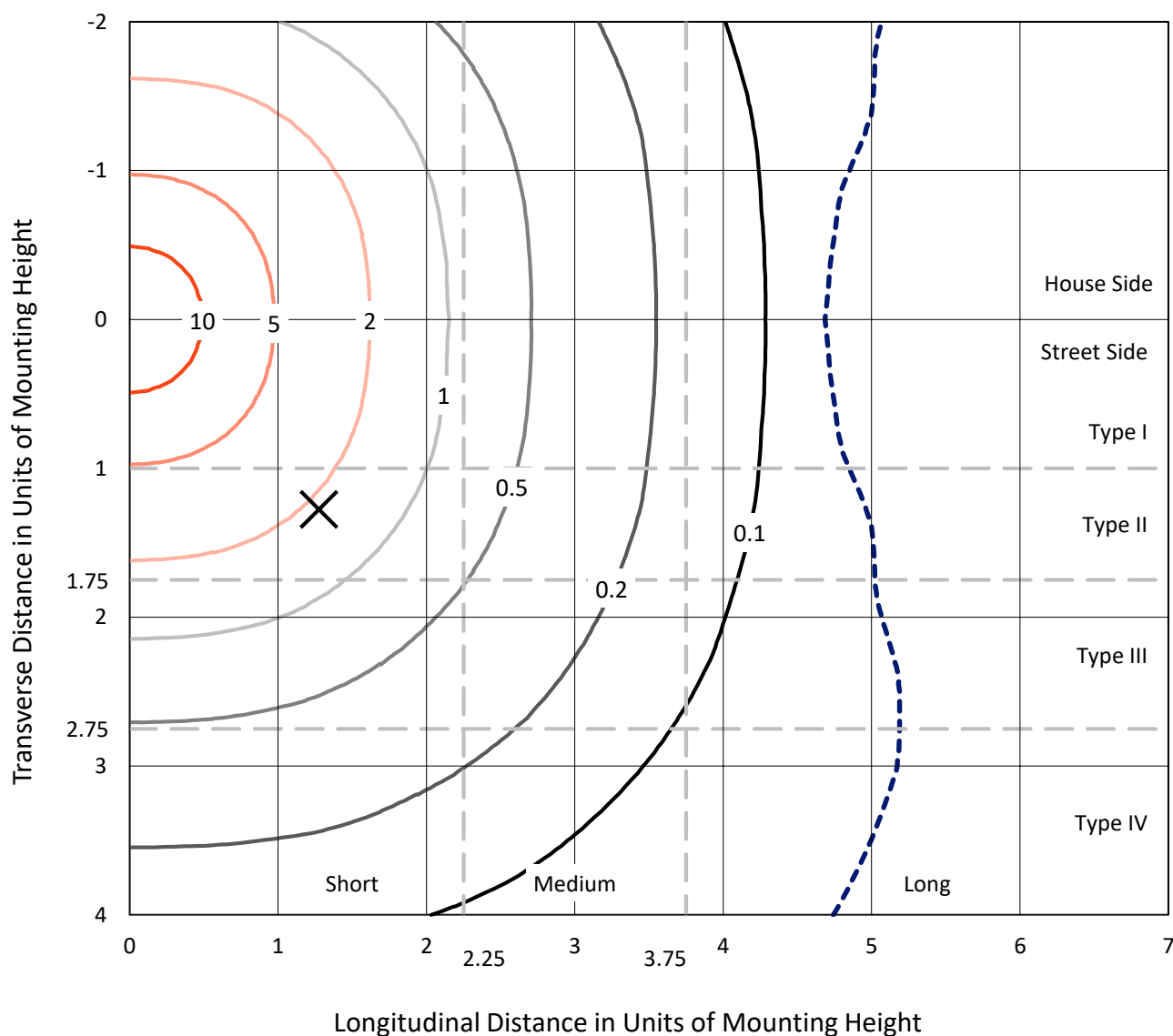


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

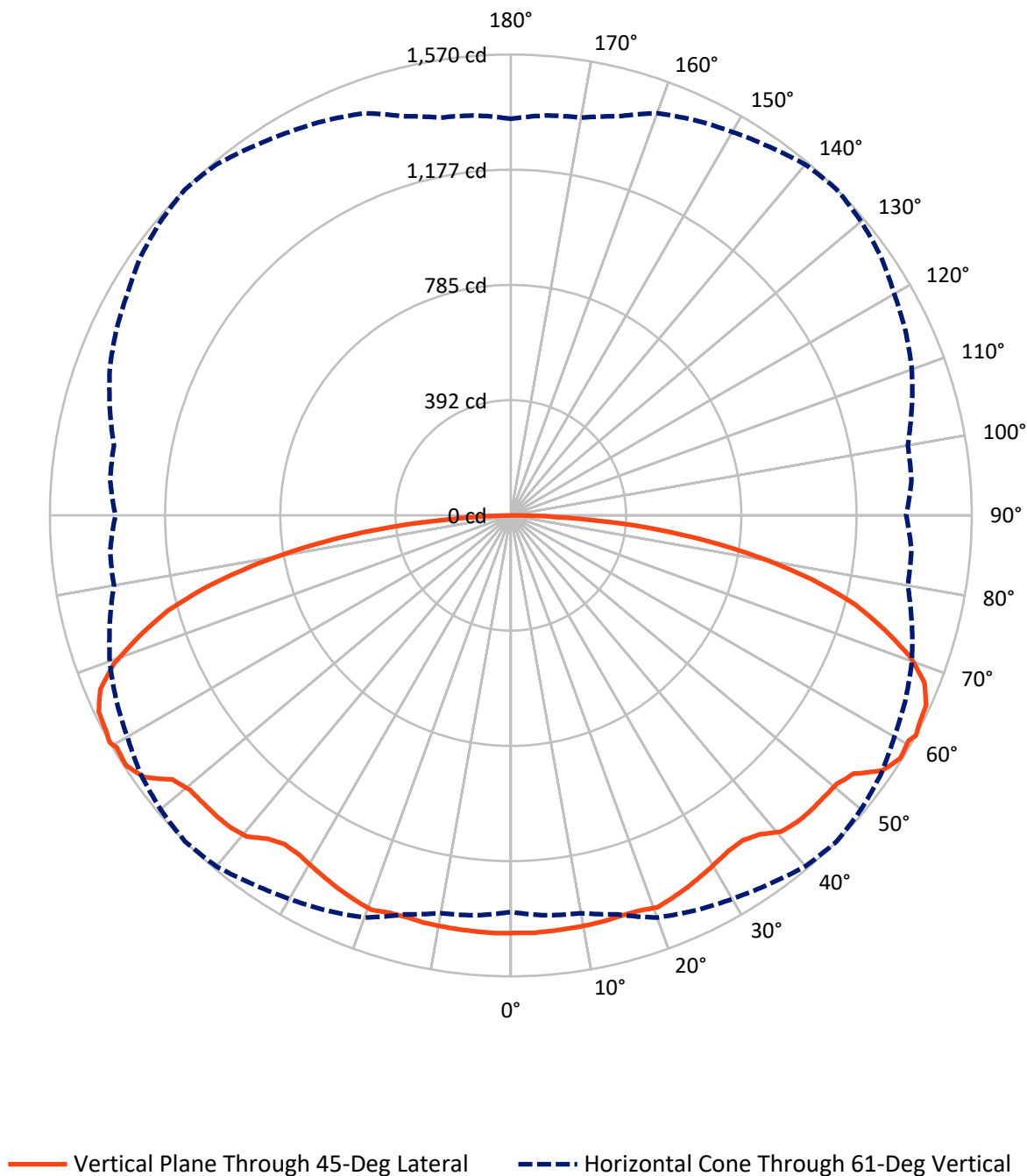


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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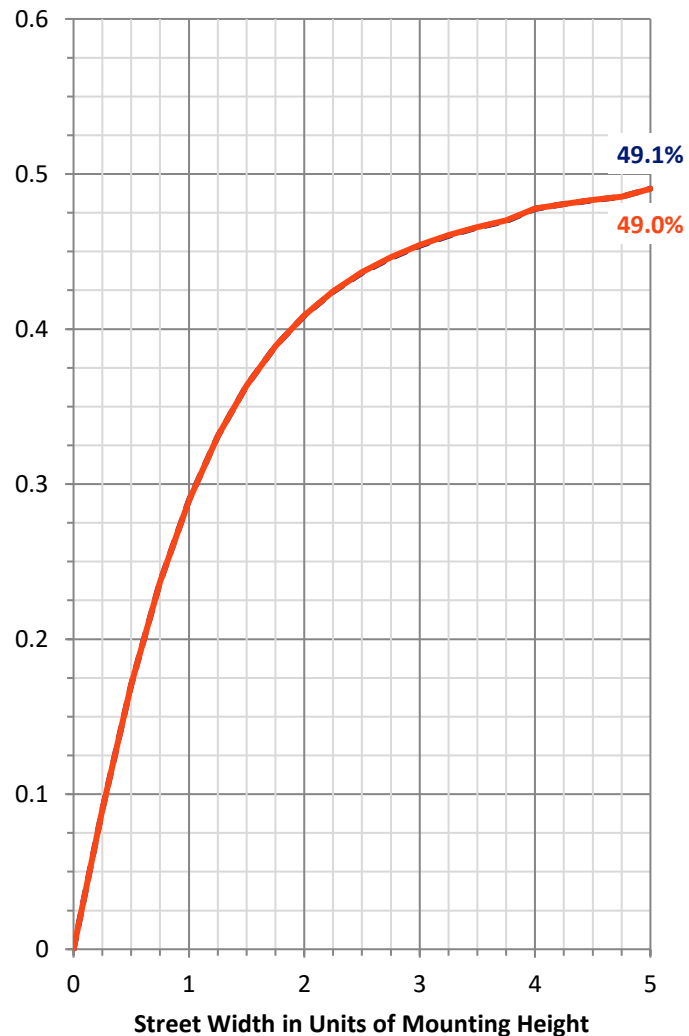
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3669.6	0.0	3669.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3669.6	0.0	3669.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	7339.3	0.0	7339.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.8
10°-20°	401.0	5.5
20°-30°	645.3	8.8
30°-40°	854.8	11.6
40°-50°	1079.5	14.7
50°-60°	1293.4	17.6
60°-70°	1414.3	19.3
70°-80°	1132.2	15.4
80°-90°	383.1	5.2
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°	7339.3	100.0
0°-180°	7339.3	100.0

Coefficient of Utilization



--- HS — SS

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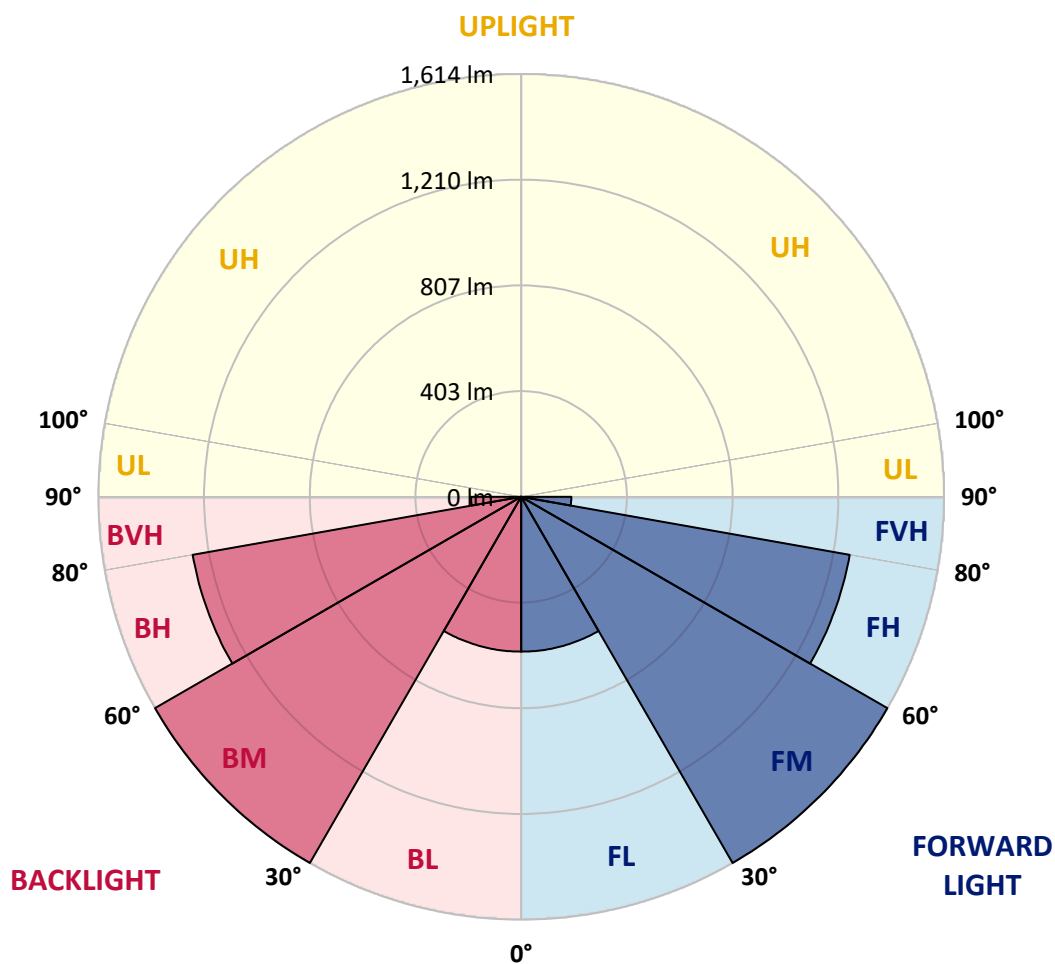
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.0	8.1			
FM	(30°-60°)	1613.9	22.0			
FH	(60°-80°)	1273.2	17.3			G1/1800
FVH	(80°-90°)	191.5	2.6			G2/225
BL	(0°-30°)	591.0	8.1	B2/1000		
BM	(30°-60°)	1613.9	22.0	B2/2500		
BH	(60°-80°)	1273.2	17.3	B3/2500		G1/1800
BVH	(80°-90°)	191.5	2.6			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°	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0
2.5°	1423.2	1422.0	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2
5°	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0
7.5°	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1422.0	1420.6	1422.0
10°	1417.9	1417.9	1417.9	1417.9	1419.3	1419.3	1419.3	1419.3	1419.3	1419.3	1419.3
12.5°	1415.1	1415.1	1415.1	1415.1	1416.5	1416.5	1416.5	1416.5	1417.9	1417.9	1416.5
15°	1412.4	1411.0	1411.0	1412.4	1412.4	1413.7	1413.7	1413.7	1415.1	1413.7	1413.7
17.5°	1409.6	1408.2	1409.6	1411.0	1411.0	1412.4	1413.7	1413.7	1415.1	1415.1	1415.1
20°	1413.7	1412.4	1413.7	1415.1	1416.5	1419.3	1420.6	1422.0	1423.2	1424.6	1424.6
22.5°	1405.5	1404.1	1405.5	1405.5	1406.8	1408.2	1411.0	1412.4	1413.7	1413.7	1413.7
25°	1393.2	1393.2	1394.6	1394.6	1396.0	1397.3	1398.7	1400.1	1400.1	1401.5	1400.1
27.5°	1379.6	1379.6	1381.0	1381.0	1383.7	1383.7	1385.1	1386.3	1387.7	1387.7	1387.7
30°	1363.2	1363.2	1364.6	1366.0	1368.5	1369.9	1371.3	1372.7	1374.1	1374.1	1374.1
32.5°	1348.2	1346.8	1348.2	1350.8	1354.9	1357.7	1360.4	1361.8	1361.8	1361.8	1363.2
35°	1335.8	1337.1	1339.9	1342.7	1348.2	1350.8	1353.5	1357.7	1359.1	1359.1	1359.1
37.5°	1338.5	1339.9	1344.0	1349.4	1356.3	1364.6	1369.9	1375.4	1379.6	1378.2	1376.8
40°	1356.3	1359.1	1366.0	1374.1	1385.1	1396.0	1404.1	1411.0	1415.1	1416.5	1415.1
42.5°	1359.1	1361.8	1367.2	1379.6	1391.8	1404.1	1415.1	1422.0	1427.4	1428.7	1427.4
45°	1357.7	1357.7	1366.0	1379.6	1391.8	1404.1	1417.9	1427.4	1432.9	1432.9	1432.9
47.5°	1348.2	1352.2	1357.7	1371.3	1387.7	1400.1	1413.7	1423.2	1430.1	1434.3	1430.1
50°	1348.2	1348.2	1357.7	1367.2	1382.3	1404.1	1423.2	1432.9	1439.8	1438.4	1439.8
52.5°	1345.4	1353.5	1359.1	1372.7	1400.1	1422.0	1437.0	1450.6	1460.1	1461.5	1458.9
55°	1369.9	1371.3	1383.7	1409.6	1435.6	1460.1	1487.6	1508.1	1524.5	1534.1	1520.3
57.5°	1389.1	1382.3	1406.8	1428.7	1458.9	1495.8	1536.7	1553.1	1565.5	1562.8	1566.9
60°	1363.2	1372.7	1390.4	1413.7	1461.5	1498.4	1520.3	1538.1	1553.1	1557.2	1551.9
61°	1350.8	1367.2	1375.4	1406.8	1457.5	1484.8	1508.1	1532.8	1560.0	1569.7	1557.2
62.5°	1330.2	1356.3	1353.5	1404.1	1435.6	1467.0	1510.8	1539.5	1558.6	1561.4	1558.6
65°	1331.6	1327.7	1359.1	1396.0	1427.4	1483.4	1520.3	1538.1	1549.1	1554.5	1551.9
67.5°	1288.0	1274.2	1312.5	1338.5	1391.8	1435.6	1471.2	1497.0	1513.6	1519.0	1512.2
70°	1186.7	1196.4	1223.6	1263.3	1307.1	1360.4	1393.2	1427.4	1441.2	1442.4	1442.4
72.5°	1089.6	1095.1	1122.6	1159.5	1210.0	1256.4	1289.4	1316.6	1329.0	1330.2	1333.0
75°	961.1	966.6	998.0	1032.2	1082.9	1122.6	1145.7	1178.6	1196.4	1211.4	1199.2
77.5°	812.1	821.7	846.2	883.3	929.7	951.6	992.7	1031.0	1043.2	1047.4	1043.2
80°	643.9	656.3	678.2	727.4	747.9	783.5	823.1	839.5	850.4	853.1	854.5
82.5°	463.5	473.1	496.3	530.4	553.7	582.5	609.8	630.3	642.5	639.9	638.6
85°	273.4	276.2	300.8	324.1	341.9	359.6	381.4	396.6	399.3	404.7	403.3
87.5°	82.1	83.5	94.4	106.6	114.9	123.0	136.8	154.6	158.5	147.7	149.0
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°	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0
2.5°	1423.2	1423.2	1423.2	1423.2	1423.2	1423.2	1422.0	1423.2
5°	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0	1422.0
7.5°	1422.0	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6
10°	1419.3	1419.3	1419.3	1419.3	1417.9	1417.9	1417.9	1417.9
12.5°	1416.5	1416.5	1416.5	1416.5	1415.1	1415.1	1415.1	1415.1
15°	1413.7	1413.7	1413.7	1413.7	1412.4	1412.4	1412.4	1412.4
17.5°	1415.1	1413.7	1412.4	1412.4	1411.0	1409.6	1409.6	1409.6
20°	1423.2	1422.0	1419.3	1416.5	1415.1	1413.7	1413.7	1413.7
22.5°	1412.4	1411.0	1408.2	1406.8	1406.8	1405.5	1404.1	1404.1
25°	1400.1	1397.3	1397.3	1396.0	1396.0	1393.2	1393.2	1391.8
27.5°	1386.3	1385.1	1383.7	1382.3	1382.3	1381.0	1379.6	1378.2
30°	1374.1	1371.3	1368.5	1367.2	1366.0	1364.6	1364.6	1364.6
32.5°	1361.8	1359.1	1357.7	1353.5	1350.8	1349.4	1348.2	1348.2
35°	1357.7	1353.5	1350.8	1346.8	1342.7	1339.9	1338.5	1335.8
37.5°	1374.1	1368.5	1364.6	1357.7	1348.2	1344.0	1339.9	1338.5
40°	1409.6	1404.1	1396.0	1385.1	1374.1	1366.0	1359.1	1356.3
42.5°	1422.0	1415.1	1404.1	1393.2	1379.6	1367.2	1361.8	1359.1
45°	1426.0	1419.3	1404.1	1390.4	1378.2	1367.2	1359.1	1356.3
47.5°	1422.0	1412.4	1398.7	1387.7	1369.9	1356.3	1350.8	1346.8
50°	1431.5	1423.2	1405.5	1381.0	1366.0	1357.7	1348.2	1346.8
52.5°	1450.6	1435.6	1419.3	1401.5	1372.7	1356.3	1350.8	1344.0
55°	1508.1	1487.6	1458.9	1430.1	1412.4	1386.3	1369.9	1369.9
57.5°	1551.9	1535.3	1498.4	1460.1	1427.4	1408.2	1383.7	1385.1
60°	1539.5	1517.6	1499.8	1461.5	1415.1	1389.1	1379.6	1361.8
61°	1538.1	1508.1	1483.4	1453.4	1413.7	1372.7	1369.9	1346.8
62.5°	1540.9	1513.6	1467.0	1435.6	1405.5	1352.2	1350.8	1329.0
65°	1538.1	1512.2	1488.9	1430.1	1389.1	1367.2	1320.8	1338.5
67.5°	1495.8	1472.6	1430.1	1397.3	1334.4	1307.1	1281.1	1281.1
70°	1428.7	1394.6	1353.5	1312.5	1270.2	1223.6	1200.4	1186.7
72.5°	1316.6	1288.0	1255.2	1211.4	1159.5	1117.0	1095.1	1085.7
75°	1175.9	1144.3	1115.7	1082.9	1028.2	992.7	969.4	962.5
77.5°	1028.2	1000.8	950.3	918.9	881.9	840.9	820.4	812.1
80°	839.5	824.5	789.0	738.3	720.5	670.0	656.3	643.9
82.5°	630.3	613.9	581.1	545.6	523.7	494.9	470.4	467.6
85°	396.6	385.5	365.0	339.1	311.7	295.3	273.4	278.9
87.5°	147.7	140.8	128.5	112.1	99.9	88.8	78.0	82.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)