

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: P197621

Luminaire Tested: **TT-C5-LED-E1-MQ-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-MQ-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7081.3 lumens
Efficiency: N/A
Efficacy: 92.0 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): 77
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



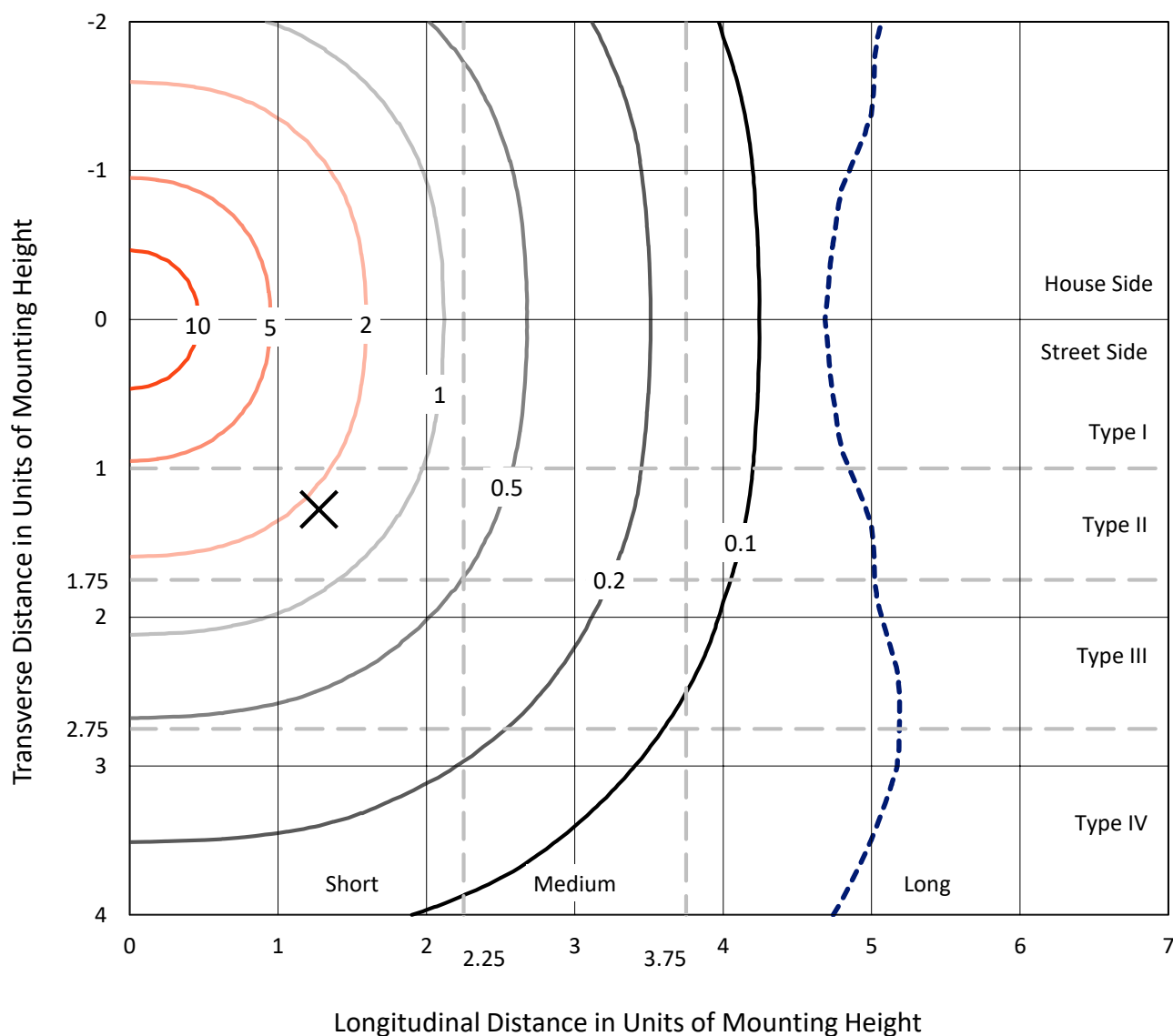
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

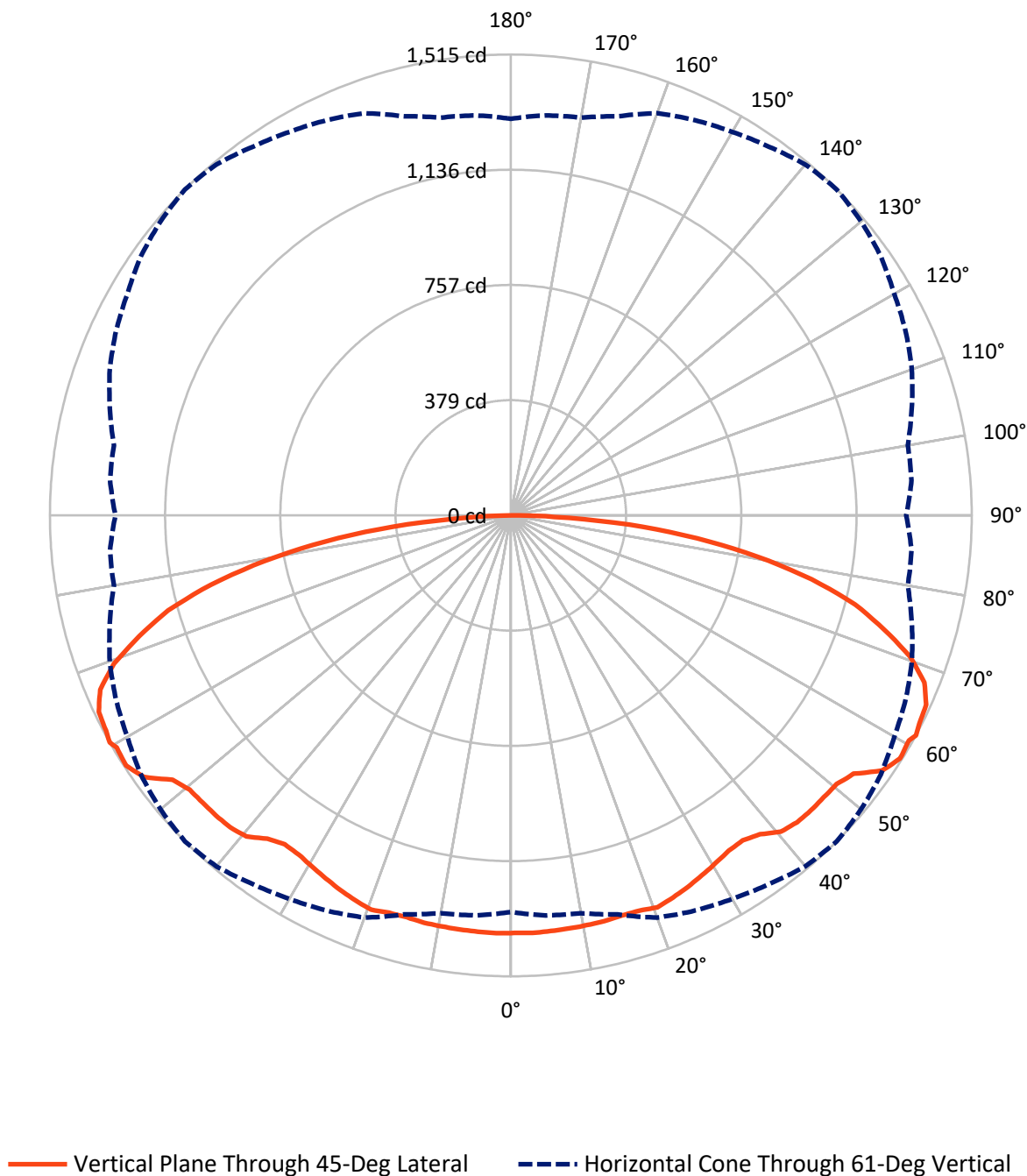


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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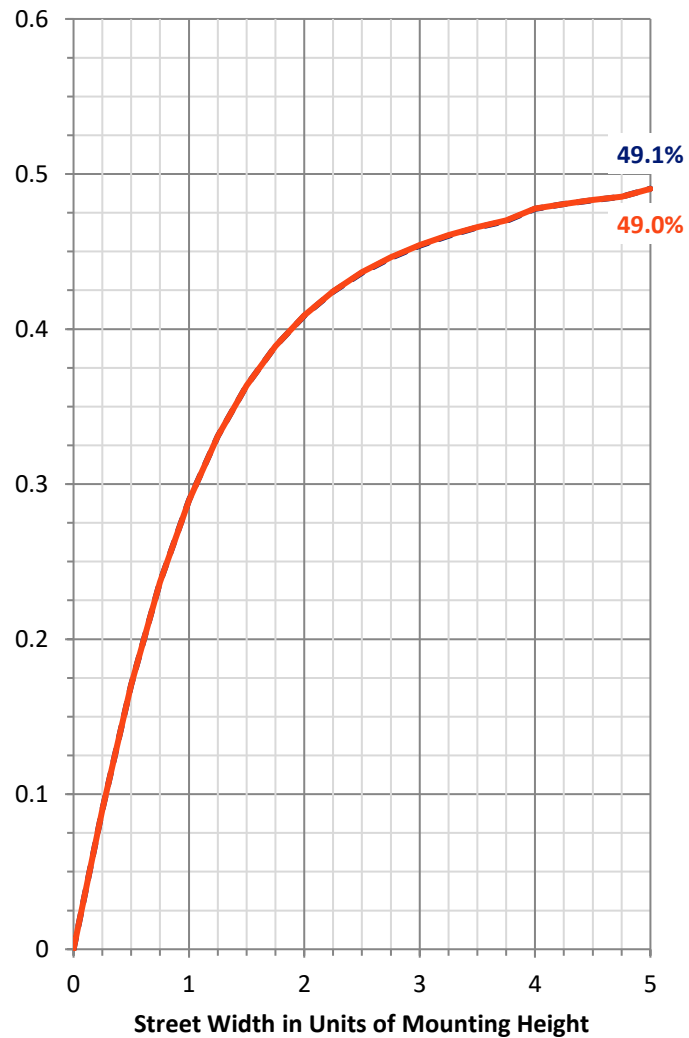
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3540.7	0.0	3540.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3540.7	0.0	3540.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7081.3	0.0	7081.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	1.8
10°-20°	386.9	5.5
20°-30°	622.6	8.8
30°-40°	824.8	11.6
40°-50°	1041.6	14.7
50°-60°	1248.0	17.6
60°-70°	1364.6	19.3
70°-80°	1092.4	15.4
80°-90°	369.6	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°	7081.3	100.0
0°-180°	7081.3	100.0

Coefficient of Utilization



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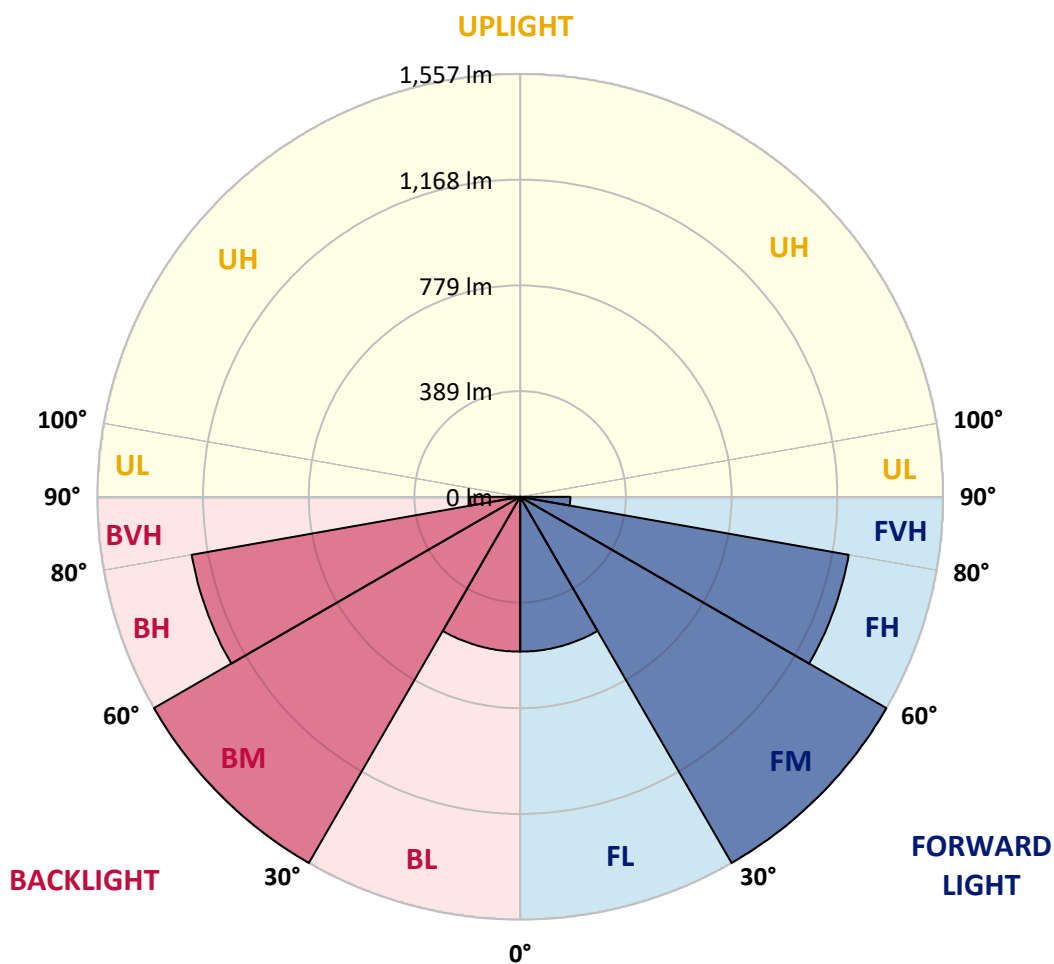
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.2	8.1			
FM	(30°-60°)	1557.2	22.0			
FH	(60°-80°)	1228.5	17.3			G1/1800
FVH	(80°-90°)	184.8	2.6			G2/225
BL	(0°-30°)	570.2	8.1	B2/1000		
BM	(30°-60°)	1557.2	22.0	B2/2500		
BH	(60°-80°)	1228.5	17.3	B3/2500		G1/1800
BVH	(80°-90°)	184.8	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°	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0
2.5°	1373.3	1372.0	1373.3	1373.3	1373.3	1373.3	1373.3	1373.3	1373.3	1373.3	1373.3
5°	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0
7.5°	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1372.0	1370.6	1372.0
10°	1368.1	1368.1	1368.1	1368.1	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
12.5°	1365.4	1365.4	1365.4	1365.4	1366.7	1366.7	1366.7	1366.7	1368.1	1368.1	1366.7
15°	1362.7	1361.5	1361.5	1362.7	1362.7	1364.0	1364.0	1364.0	1365.4	1364.0	1364.0
17.5°	1360.1	1358.8	1360.1	1361.5	1361.5	1362.7	1364.0	1364.0	1365.4	1365.4	1365.4
20°	1364.0	1362.7	1364.0	1365.4	1366.7	1369.3	1370.6	1372.0	1373.3	1374.5	1374.5
22.5°	1356.2	1354.8	1356.2	1356.2	1357.4	1358.8	1361.5	1362.7	1364.0	1364.0	1364.0
25°	1344.3	1344.3	1345.5	1345.5	1346.9	1348.2	1349.6	1350.8	1350.8	1352.1	1350.8
27.5°	1331.1	1331.1	1332.4	1332.4	1335.0	1335.0	1336.4	1337.7	1338.9	1338.9	1338.9
30°	1315.2	1315.2	1316.5	1317.9	1320.6	1321.8	1323.1	1324.5	1325.8	1325.8	1325.8
32.5°	1300.7	1299.4	1300.7	1303.3	1307.3	1309.9	1312.6	1314.0	1314.0	1314.0	1315.2
35°	1288.9	1290.2	1292.8	1295.5	1300.7	1303.3	1306.0	1309.9	1311.3	1311.3	1311.3
37.5°	1291.4	1292.8	1296.8	1302.1	1308.7	1316.5	1321.8	1327.0	1331.1	1329.7	1328.4
40°	1308.7	1311.3	1317.9	1325.8	1336.4	1346.9	1354.8	1361.5	1365.4	1366.7	1365.4
42.5°	1311.3	1314.0	1319.2	1331.1	1343.0	1354.8	1365.4	1372.0	1377.2	1378.6	1377.2
45°	1309.9	1309.9	1317.9	1331.1	1343.0	1354.8	1368.1	1377.2	1382.5	1382.5	1382.5
47.5°	1300.7	1304.7	1309.9	1323.1	1338.9	1350.8	1364.0	1373.3	1379.8	1383.9	1379.8
50°	1300.7	1300.7	1309.9	1319.2	1333.7	1354.8	1373.3	1382.5	1389.1	1387.8	1389.1
52.5°	1298.0	1306.0	1311.3	1324.5	1350.8	1372.0	1386.4	1399.6	1409.0	1410.2	1407.6
55°	1321.8	1323.1	1335.0	1360.1	1385.2	1409.0	1435.3	1455.1	1470.9	1480.2	1467.0
57.5°	1340.3	1333.7	1357.4	1378.6	1407.6	1443.2	1482.8	1498.5	1510.4	1507.9	1511.8
60°	1315.2	1324.5	1341.6	1364.0	1410.2	1445.8	1467.0	1484.1	1498.5	1502.6	1497.3
61°	1303.3	1319.2	1327.0	1357.4	1406.3	1432.7	1455.1	1478.8	1505.2	1514.5	1502.6
62.5°	1283.6	1308.7	1306.0	1354.8	1385.2	1415.4	1457.7	1485.5	1503.9	1506.5	1503.9
65°	1285.0	1280.9	1311.3	1346.9	1377.2	1431.4	1467.0	1484.1	1494.6	1499.9	1497.3
67.5°	1242.7	1229.5	1266.5	1291.4	1343.0	1385.2	1419.5	1444.6	1460.4	1465.6	1459.0
70°	1145.0	1154.3	1180.6	1219.0	1261.2	1312.6	1344.3	1377.2	1390.5	1391.7	1391.7
72.5°	1051.4	1056.6	1083.1	1118.7	1167.4	1212.4	1243.9	1270.4	1282.3	1283.6	1286.2
75°	927.4	932.6	963.0	995.9	1044.8	1083.1	1105.5	1137.2	1154.3	1168.8	1156.9
77.5°	783.5	792.9	816.6	852.2	897.0	918.2	957.7	994.7	1006.6	1010.5	1006.6
80°	621.4	633.2	654.3	701.8	721.6	755.9	794.2	810.0	820.5	823.2	824.4
82.5°	447.2	456.5	478.9	511.8	534.3	562.0	588.3	608.1	620.0	617.4	616.1
85°	263.8	266.5	290.2	312.6	329.8	346.9	368.1	382.5	385.2	390.5	389.1
87.5°	79.2	80.4	91.1	103.0	110.8	118.7	132.0	149.1	153.0	142.5	143.8
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°	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0
2.5°	1373.3	1373.3	1373.3	1373.3	1373.3	1373.3	1372.0	1373.3
5°	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0
7.5°	1372.0	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6
10°	1369.3	1369.3	1369.3	1369.3	1368.1	1368.1	1368.1	1368.1
12.5°	1366.7	1366.7	1366.7	1366.7	1365.4	1365.4	1365.4	1365.4
15°	1364.0	1364.0	1364.0	1364.0	1362.7	1362.7	1362.7	1362.7
17.5°	1365.4	1364.0	1362.7	1362.7	1361.5	1360.1	1360.1	1360.1
20°	1373.3	1372.0	1369.3	1366.7	1365.4	1364.0	1364.0	1364.0
22.5°	1362.7	1361.5	1358.8	1357.4	1357.4	1356.2	1354.8	1354.8
25°	1350.8	1348.2	1348.2	1346.9	1346.9	1344.3	1344.3	1343.0
27.5°	1337.7	1336.4	1335.0	1333.7	1333.7	1332.4	1331.1	1329.7
30°	1325.8	1323.1	1320.6	1319.2	1317.9	1316.5	1316.5	1316.5
32.5°	1314.0	1311.3	1309.9	1306.0	1303.3	1302.1	1300.7	1300.7
35°	1309.9	1306.0	1303.3	1299.4	1295.5	1292.8	1291.4	1288.9
37.5°	1325.8	1320.6	1316.5	1309.9	1300.7	1296.8	1292.8	1291.4
40°	1360.1	1354.8	1346.9	1336.4	1325.8	1317.9	1311.3	1308.7
42.5°	1372.0	1365.4	1354.8	1344.3	1331.1	1319.2	1314.0	1311.3
45°	1375.9	1369.3	1354.8	1341.6	1329.7	1319.2	1311.3	1308.7
47.5°	1372.0	1362.7	1349.6	1338.9	1321.8	1308.7	1303.3	1299.4
50°	1381.2	1373.3	1356.2	1332.4	1317.9	1309.9	1300.7	1299.4
52.5°	1399.6	1385.2	1369.3	1352.1	1324.5	1308.7	1303.3	1296.8
55°	1455.1	1435.3	1407.6	1379.8	1362.7	1337.7	1321.8	1321.8
57.5°	1497.3	1481.4	1445.8	1409.0	1377.2	1358.8	1335.0	1336.4
60°	1485.5	1464.3	1447.1	1410.2	1365.4	1340.3	1331.1	1314.0
61°	1484.1	1455.1	1431.4	1402.3	1364.0	1324.5	1321.8	1299.4
62.5°	1486.7	1460.4	1415.4	1385.2	1356.2	1304.7	1303.3	1282.3
65°	1484.1	1459.0	1436.6	1379.8	1340.3	1319.2	1274.3	1291.4
67.5°	1443.2	1420.8	1379.8	1348.2	1287.5	1261.2	1236.1	1236.1
70°	1378.6	1345.5	1306.0	1266.5	1225.6	1180.6	1158.3	1145.0
72.5°	1270.4	1242.7	1211.0	1168.8	1118.7	1077.8	1056.6	1047.5
75°	1134.5	1104.1	1076.5	1044.8	992.0	957.7	935.3	928.7
77.5°	992.0	965.7	916.9	886.5	850.9	811.3	791.5	783.5
80°	810.0	795.4	761.1	712.3	695.2	646.5	633.2	621.4
82.5°	608.1	592.3	560.6	526.4	505.3	477.5	453.8	451.2
85°	382.5	372.0	352.2	327.2	300.8	285.0	263.8	269.1
87.5°	142.5	135.9	124.0	108.2	96.3	85.7	75.2	79.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)