

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: P197620

Luminaire Tested: **TT-C4-LED-E1-MQ-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197620
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-C4-LED-E1-MQ-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7124.6 lumens
Efficiency: N/A
Efficacy: 122.8 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): 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



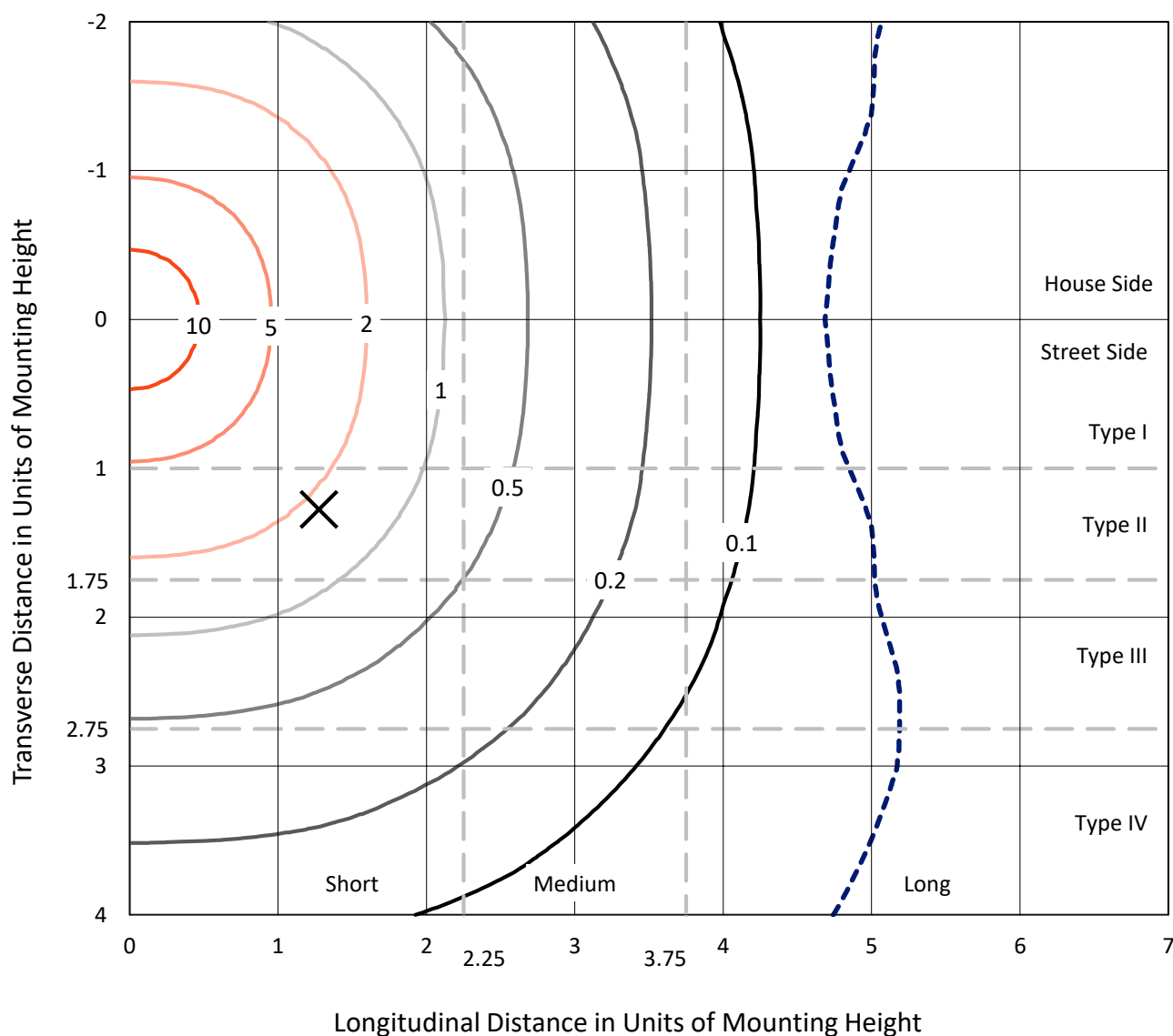
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

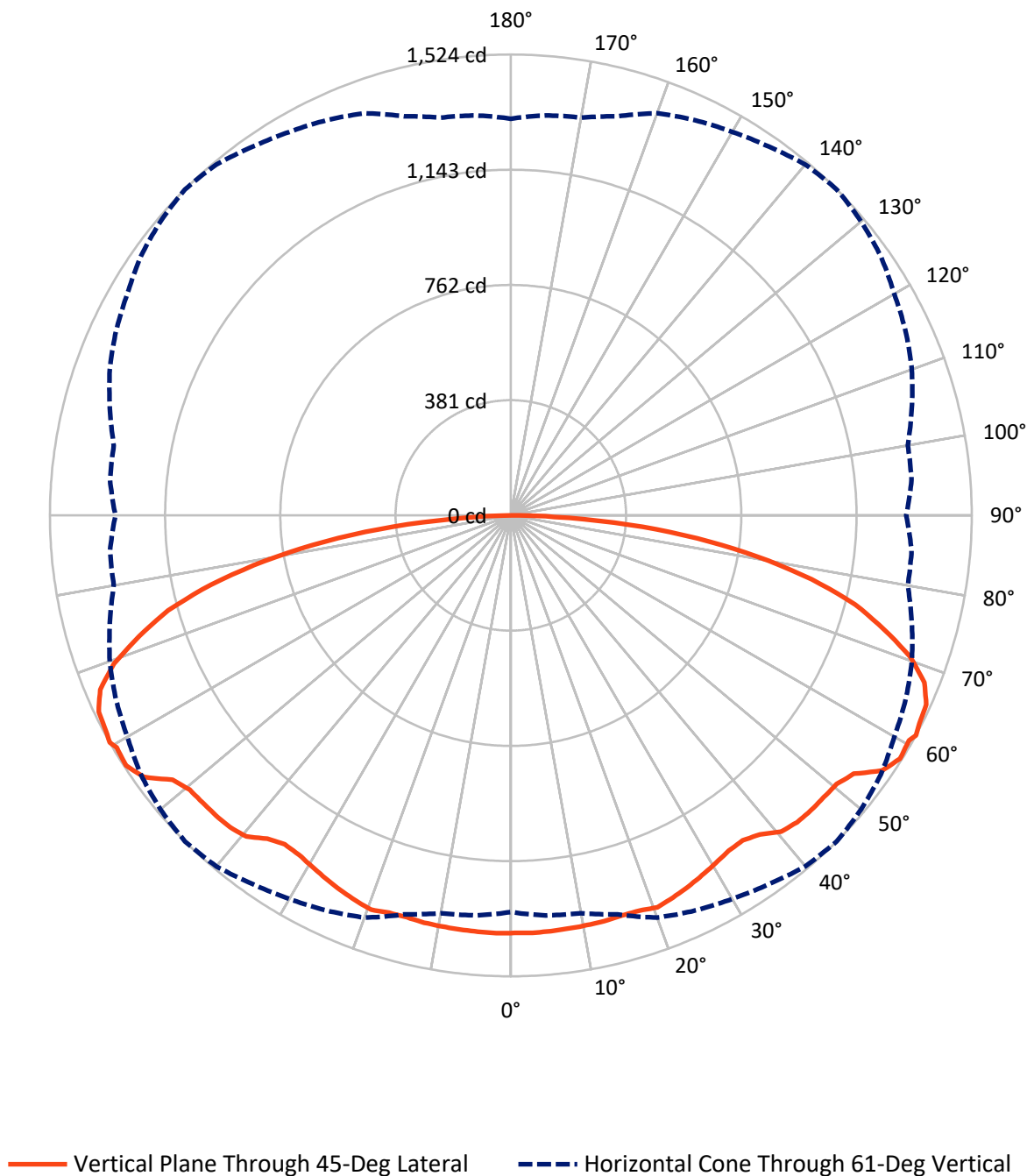


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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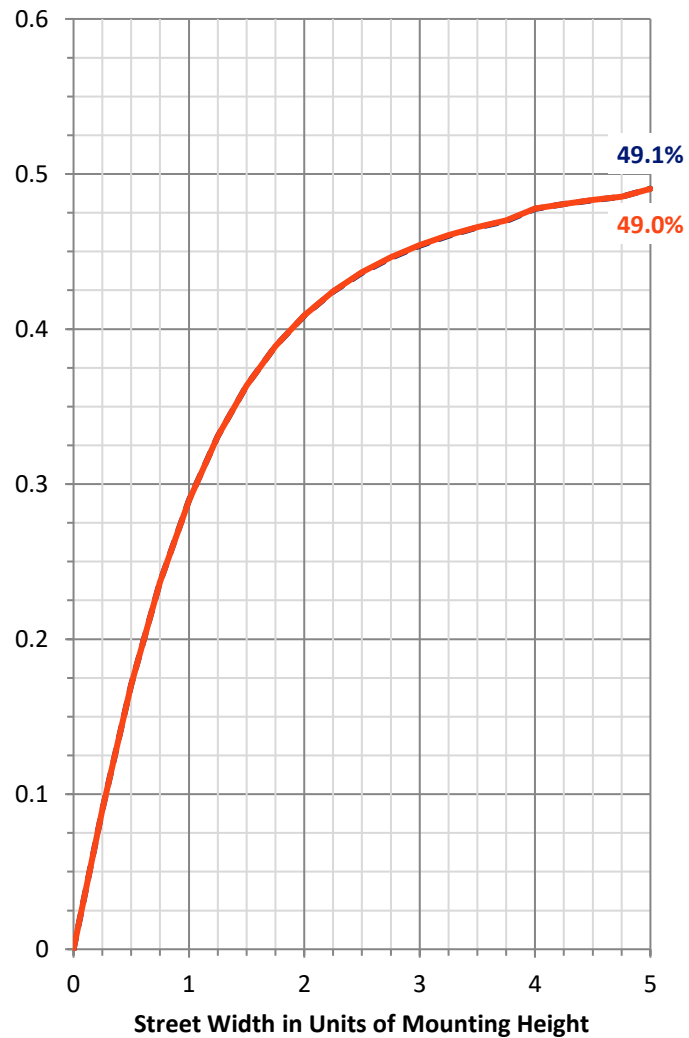
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3562.3	0.0	3562.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3562.3	0.0	3562.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	7124.6	0.0	7124.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	1.8
10°-20°	389.3	5.5
20°-30°	626.4	8.8
30°-40°	829.8	11.6
40°-50°	1047.9	14.7
50°-60°	1255.6	17.6
60°-70°	1372.9	19.3
70°-80°	1099.0	15.4
80°-90°	371.8	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°	7124.6	100.0
0°-180°	7124.6	100.0

Coefficient of Utilization



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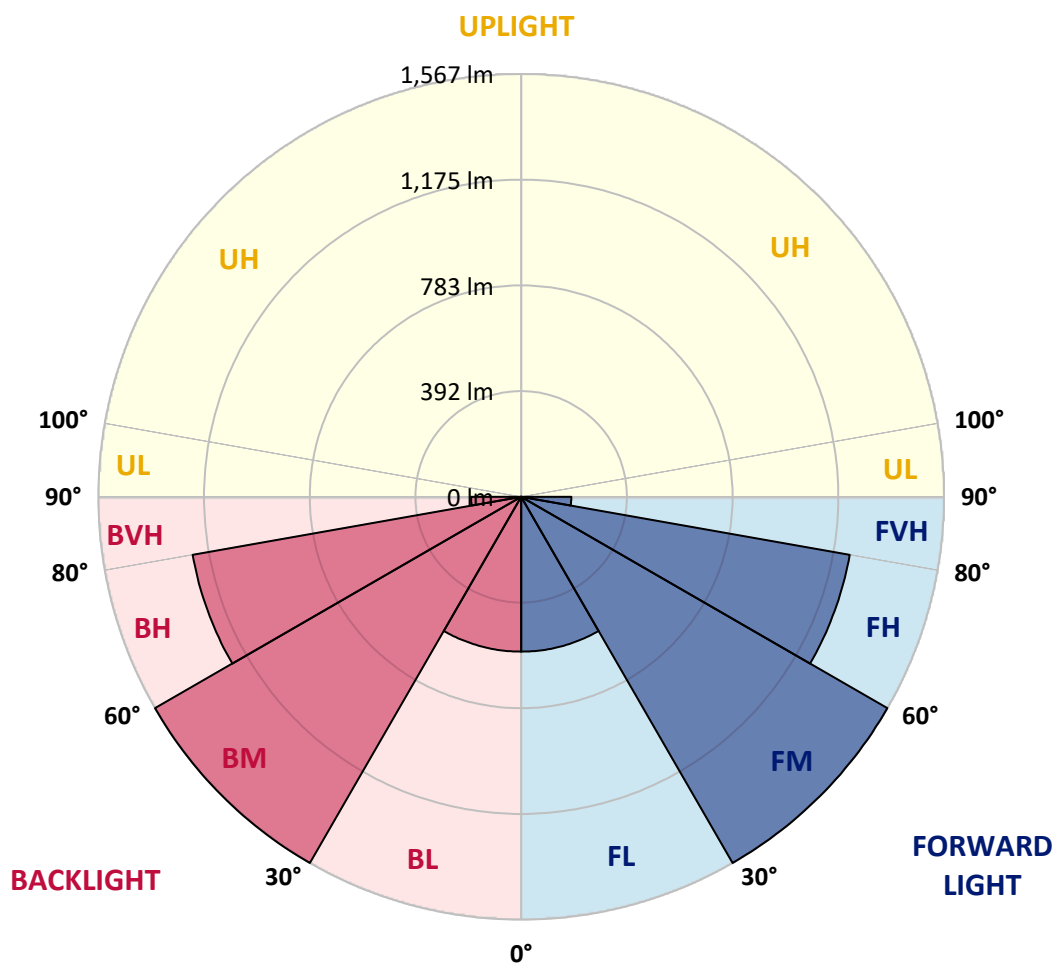
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.7	8.1			
FM	(30°-60°)	1566.7	22.0			
FH	(60°-80°)	1236.0	17.3			G1/1800
FVH	(80°-90°)	185.9	2.6			G2/225
BL	(0°-30°)	573.7	8.1	B2/1000		
BM	(30°-60°)	1566.7	22.0	B2/2500		
BH	(60°-80°)	1236.0	17.3	B3/2500		G1/1800
BVH	(80°-90°)	185.9	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°	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4
2.5°	1381.7	1380.4	1381.7	1381.7	1381.7	1381.7	1381.7	1381.7	1381.7	1381.7	1381.7
5°	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4
7.5°	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0	1380.4	1379.0	1380.4
10°	1376.4	1376.4	1376.4	1376.4	1377.6	1377.6	1377.6	1377.6	1377.6	1377.6	1377.6
12.5°	1373.7	1373.7	1373.7	1373.7	1375.1	1375.1	1375.1	1375.1	1376.4	1376.4	1375.1
15°	1371.0	1369.8	1369.8	1371.0	1371.0	1372.3	1372.3	1372.3	1373.7	1372.3	1372.3
17.5°	1368.4	1367.1	1368.4	1369.8	1369.8	1371.0	1372.3	1372.3	1373.7	1373.7	1373.7
20°	1372.3	1371.0	1372.3	1373.7	1375.1	1377.6	1379.0	1380.4	1381.7	1382.9	1382.9
22.5°	1364.5	1363.1	1364.5	1364.5	1365.7	1367.1	1369.8	1371.0	1372.3	1372.3	1372.3
25°	1352.5	1352.5	1353.7	1353.7	1355.1	1356.5	1357.8	1359.0	1359.0	1360.4	1359.0
27.5°	1339.2	1339.2	1340.6	1340.6	1343.2	1343.2	1344.5	1345.9	1347.1	1347.1	1347.1
30°	1323.2	1323.2	1324.6	1325.9	1328.6	1329.9	1331.2	1332.6	1333.9	1333.9	1333.9
32.5°	1308.7	1307.3	1308.7	1311.3	1315.3	1317.9	1320.6	1322.0	1322.0	1322.0	1323.2
35°	1296.7	1298.1	1300.7	1303.4	1308.7	1311.3	1314.0	1317.9	1319.3	1319.3	1319.3
37.5°	1299.3	1300.7	1304.7	1310.0	1316.7	1324.6	1329.9	1335.1	1339.2	1337.9	1336.5
40°	1316.7	1319.3	1325.9	1333.9	1344.5	1355.1	1363.1	1369.8	1373.7	1375.1	1373.7
42.5°	1319.3	1322.0	1327.3	1339.2	1351.2	1363.1	1373.7	1380.4	1385.7	1387.0	1385.7
45°	1317.9	1317.9	1325.9	1339.2	1351.2	1363.1	1376.4	1385.7	1390.9	1390.9	1390.9
47.5°	1308.7	1312.6	1317.9	1331.2	1347.1	1359.0	1372.3	1381.7	1388.2	1392.3	1388.2
50°	1308.7	1308.7	1317.9	1327.3	1341.8	1363.1	1381.7	1390.9	1397.6	1396.2	1397.6
52.5°	1306.0	1314.0	1319.3	1332.6	1359.0	1380.4	1394.9	1408.2	1417.6	1418.8	1416.2
55°	1329.9	1331.2	1343.2	1368.4	1393.7	1417.6	1444.0	1464.0	1479.9	1489.2	1475.9
57.5°	1348.5	1341.8	1365.7	1387.0	1416.2	1452.0	1491.8	1507.7	1519.6	1517.1	1521.0
60°	1323.2	1332.6	1349.8	1372.3	1418.8	1454.6	1475.9	1493.2	1507.7	1511.8	1506.5
61°	1311.3	1327.3	1335.1	1365.7	1414.8	1441.4	1464.0	1487.9	1514.3	1523.7	1511.8
62.5°	1291.4	1316.7	1314.0	1363.1	1393.7	1424.1	1466.6	1494.5	1513.1	1515.7	1513.1
65°	1292.8	1288.7	1319.3	1355.1	1385.7	1440.1	1475.9	1493.2	1503.8	1509.1	1506.5
67.5°	1250.3	1237.0	1274.2	1299.3	1351.2	1393.7	1428.1	1453.4	1469.3	1474.6	1467.9
70°	1152.0	1161.4	1187.9	1226.4	1268.9	1320.6	1352.5	1385.7	1399.0	1400.2	1400.2
72.5°	1057.8	1063.1	1089.7	1125.5	1174.6	1219.8	1251.5	1278.1	1290.1	1291.4	1294.0
75°	933.0	938.3	968.9	1002.0	1051.2	1089.7	1112.2	1144.1	1161.4	1175.9	1164.0
77.5°	788.3	797.7	821.6	857.4	902.5	923.8	963.6	1000.8	1012.7	1016.7	1012.7
80°	625.2	637.1	658.3	706.1	726.0	760.5	799.1	814.9	825.5	828.2	829.5
82.5°	449.9	459.3	481.8	514.9	537.6	565.4	591.9	611.8	623.8	621.2	619.9
85°	265.4	268.1	292.0	314.5	331.8	349.0	370.3	384.9	387.6	392.9	391.5
87.5°	79.7	80.9	91.6	103.6	111.5	119.5	132.8	150.0	153.9	143.4	144.7
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°	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4
2.5°	1381.7	1381.7	1381.7	1381.7	1381.7	1381.7	1380.4	1381.7
5°	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4	1380.4
7.5°	1380.4	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0
10°	1377.6	1377.6	1377.6	1377.6	1376.4	1376.4	1376.4	1376.4
12.5°	1375.1	1375.1	1375.1	1375.1	1373.7	1373.7	1373.7	1373.7
15°	1372.3	1372.3	1372.3	1372.3	1371.0	1371.0	1371.0	1371.0
17.5°	1373.7	1372.3	1371.0	1371.0	1369.8	1368.4	1368.4	1368.4
20°	1381.7	1380.4	1377.6	1375.1	1373.7	1372.3	1372.3	1372.3
22.5°	1371.0	1369.8	1367.1	1365.7	1365.7	1364.5	1363.1	1363.1
25°	1359.0	1356.5	1356.5	1355.1	1355.1	1352.5	1352.5	1351.2
27.5°	1345.9	1344.5	1343.2	1341.8	1341.8	1340.6	1339.2	1337.9
30°	1333.9	1331.2	1328.6	1327.3	1325.9	1324.6	1324.6	1324.6
32.5°	1322.0	1319.3	1317.9	1314.0	1311.3	1310.0	1308.7	1308.7
35°	1317.9	1314.0	1311.3	1307.3	1303.4	1300.7	1299.3	1296.7
37.5°	1333.9	1328.6	1324.6	1317.9	1308.7	1304.7	1300.7	1299.3
40°	1368.4	1363.1	1355.1	1344.5	1333.9	1325.9	1319.3	1316.7
42.5°	1380.4	1373.7	1363.1	1352.5	1339.2	1327.3	1322.0	1319.3
45°	1384.3	1377.6	1363.1	1349.8	1337.9	1327.3	1319.3	1316.7
47.5°	1380.4	1371.0	1357.8	1347.1	1329.9	1316.7	1311.3	1307.3
50°	1389.6	1381.7	1364.5	1340.6	1325.9	1317.9	1308.7	1307.3
52.5°	1408.2	1393.7	1377.6	1360.4	1332.6	1316.7	1311.3	1304.7
55°	1464.0	1444.0	1416.2	1388.2	1371.0	1345.9	1329.9	1329.9
57.5°	1506.5	1490.5	1454.6	1417.6	1385.7	1367.1	1343.2	1344.5
60°	1494.5	1473.2	1456.0	1418.8	1373.7	1348.5	1339.2	1322.0
61°	1493.2	1464.0	1440.1	1410.9	1372.3	1332.6	1329.9	1307.3
62.5°	1495.7	1469.3	1424.1	1393.7	1364.5	1312.6	1311.3	1290.1
65°	1493.2	1467.9	1445.4	1388.2	1348.5	1327.3	1282.1	1299.3
67.5°	1452.0	1429.5	1388.2	1356.5	1295.4	1268.9	1243.7	1243.7
70°	1387.0	1353.7	1314.0	1274.2	1233.1	1187.9	1165.3	1152.0
72.5°	1278.1	1250.3	1218.4	1175.9	1125.5	1084.4	1063.1	1053.9
75°	1141.4	1110.9	1083.1	1051.2	998.1	963.6	941.1	934.4
77.5°	998.1	971.6	922.5	891.9	856.1	816.3	796.3	788.3
80°	814.9	800.3	765.8	716.6	699.4	650.4	637.1	625.2
82.5°	611.8	596.0	564.1	529.6	508.4	480.4	456.5	454.0
85°	384.9	374.3	354.3	329.2	302.6	286.7	265.4	270.7
87.5°	143.4	136.7	124.8	108.9	96.9	86.2	75.6	79.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)