

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: P197619

Luminaire Tested: **TT-C4-LED-E1-MQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197619
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7178.7 lumens
Efficiency: N/A
Efficacy: 123.8 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

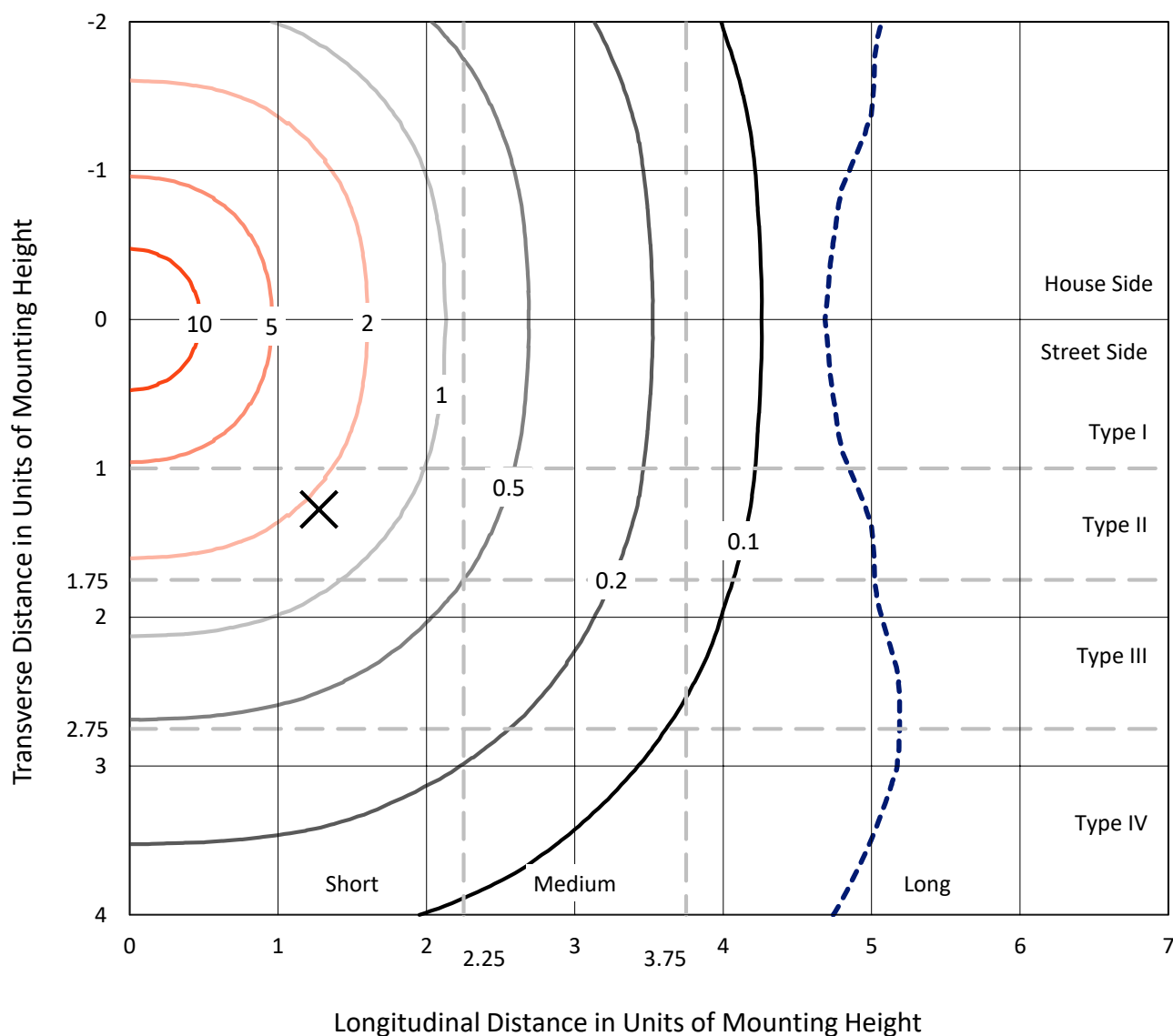


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

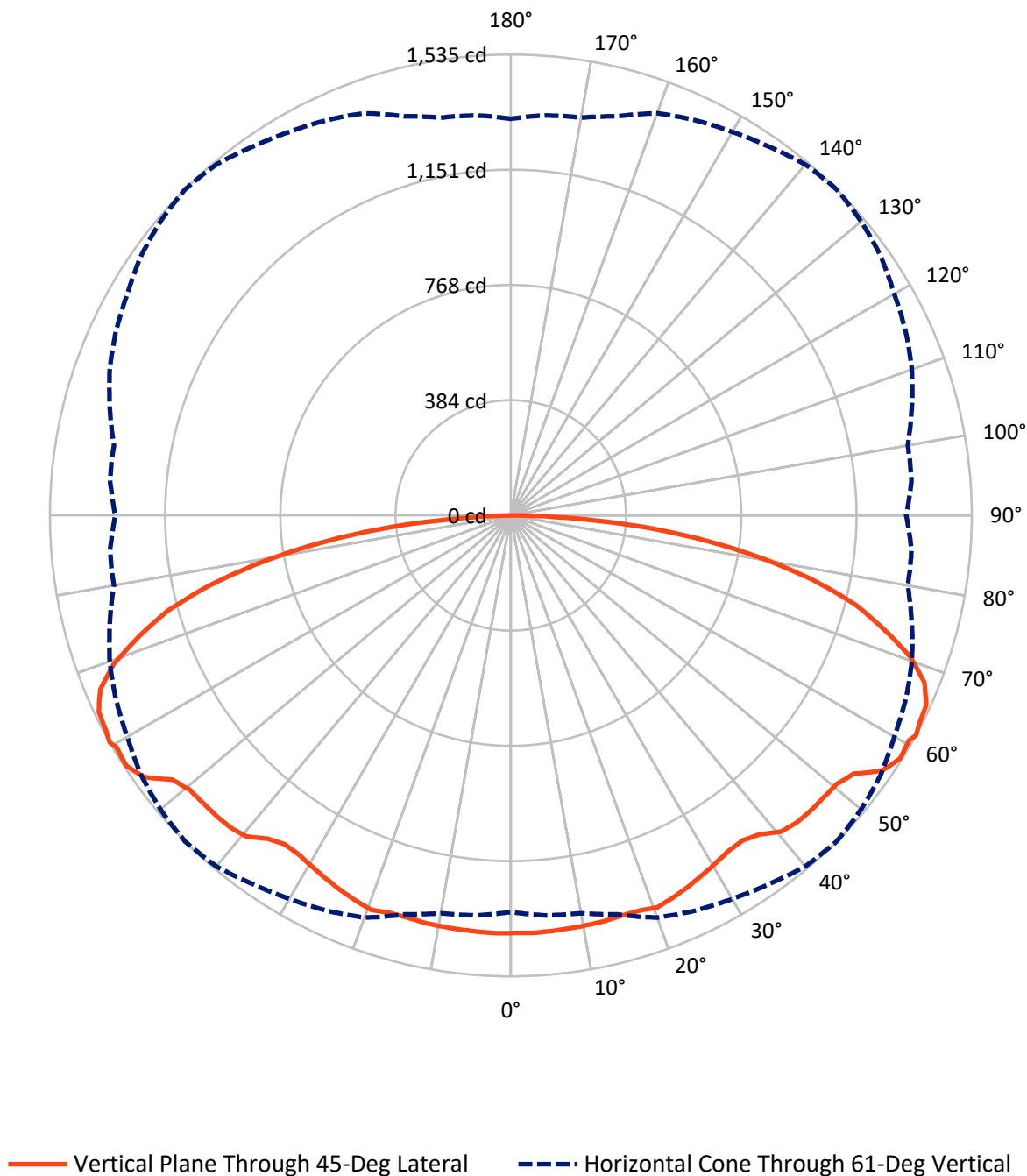


Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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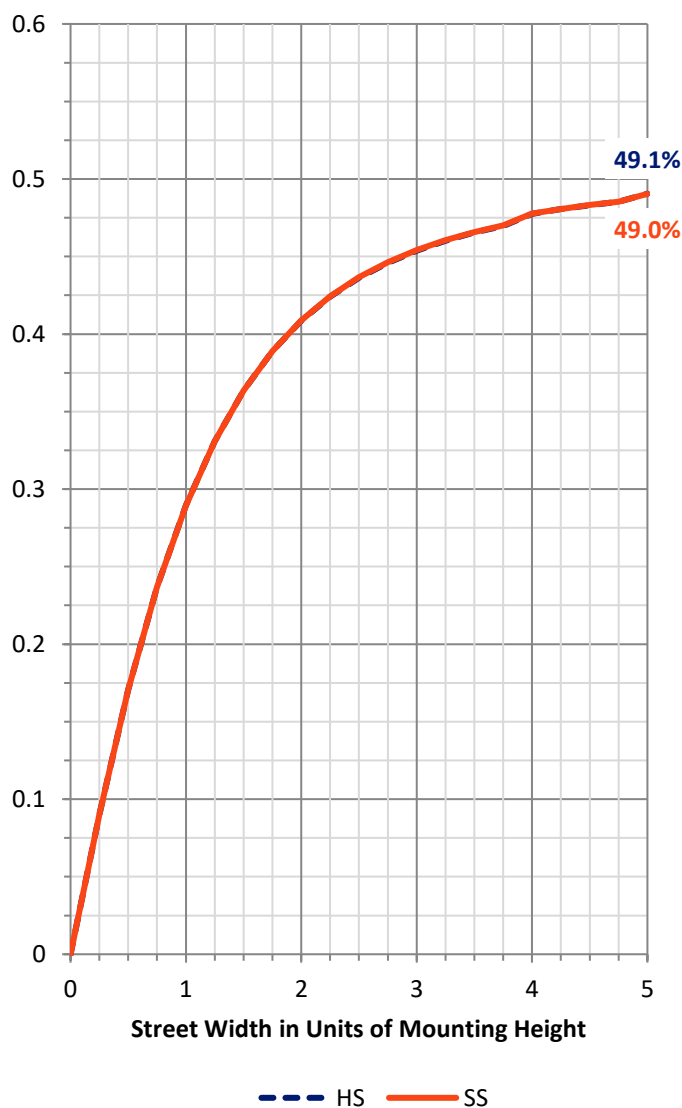
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3589.4	0.0	3589.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3589.4	0.0	3589.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7178.7	0.0	7178.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	1.8
10°-20°	392.3	5.5
20°-30°	631.2	8.8
30°-40°	836.1	11.6
40°-50°	1055.9	14.7
50°-60°	1265.2	17.6
60°-70°	1383.4	19.3
70°-80°	1107.4	15.4
80°-90°	374.7	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°	7178.7	100.0
0°-180°	7178.7	100.0

Coefficient of Utilization



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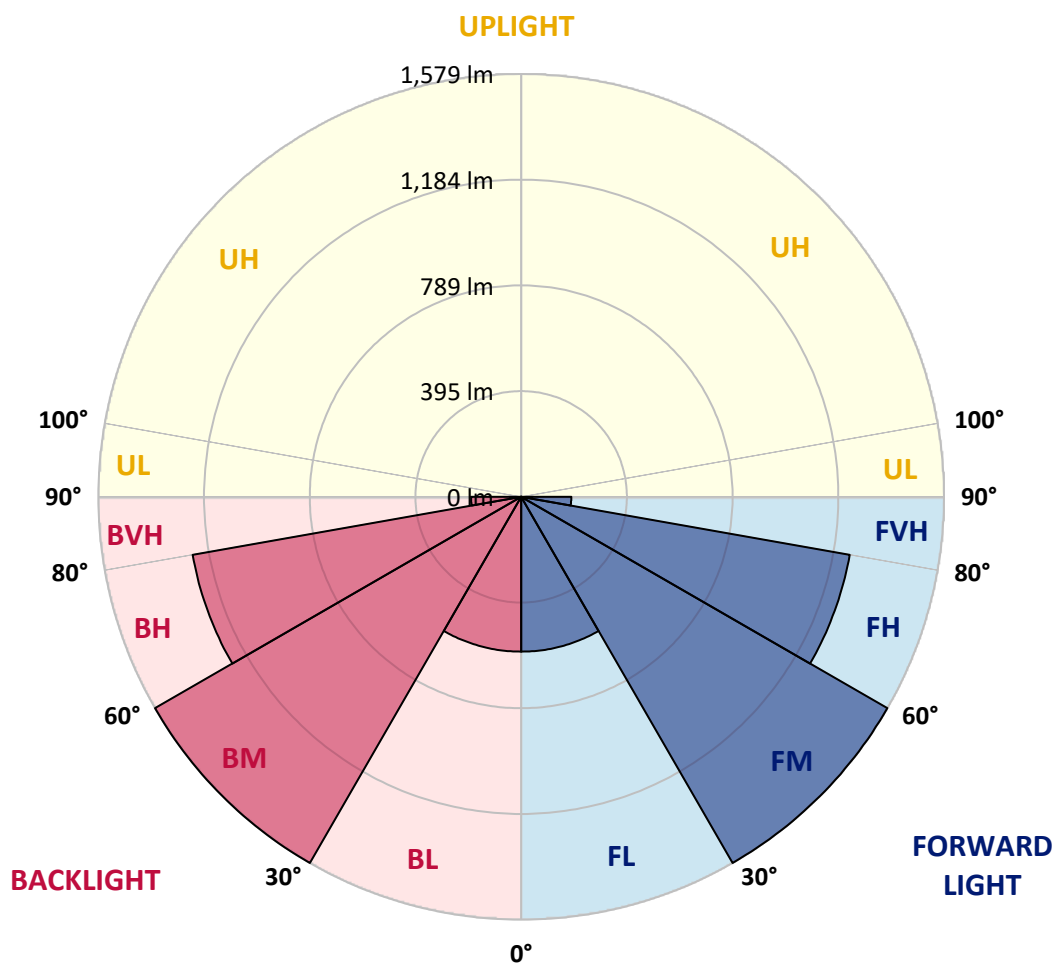
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.1	8.1			
FM	(30°-60°)	1578.6	22.0			
FH	(60°-80°)	1245.4	17.3			G1/1800
FVH	(80°-90°)	187.3	2.6			G2/225
BL	(0°-30°)	578.1	8.1	B2/1000		
BM	(30°-60°)	1578.6	22.0	B2/2500		
BH	(60°-80°)	1245.4	17.3	B3/2500		G1/1800
BVH	(80°-90°)	187.3	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°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1392.2	1390.9	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2
5°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
7.5°	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1390.9	1389.5	1390.9
10°	1386.9	1386.9	1386.9	1386.9	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1
12.5°	1384.2	1384.2	1384.2	1384.2	1385.5	1385.5	1385.5	1385.5	1386.9	1386.9	1385.5
15°	1381.4	1380.2	1380.2	1381.4	1381.4	1382.8	1382.8	1382.8	1384.2	1382.8	1382.8
17.5°	1378.8	1377.5	1378.8	1380.2	1380.2	1381.4	1382.8	1382.8	1384.2	1384.2	1384.2
20°	1382.8	1381.4	1382.8	1384.2	1385.5	1388.1	1389.5	1390.9	1392.2	1393.5	1393.5
22.5°	1374.9	1373.5	1374.9	1374.9	1376.1	1377.5	1380.2	1381.4	1382.8	1382.8	1382.8
25°	1362.8	1362.8	1364.0	1364.0	1365.4	1366.8	1368.2	1369.4	1369.4	1370.7	1369.4
27.5°	1349.4	1349.4	1350.8	1350.8	1353.4	1353.4	1354.7	1356.1	1357.3	1357.3	1357.3
30°	1333.3	1333.3	1334.6	1336.0	1338.7	1340.0	1341.3	1342.7	1344.1	1344.1	1344.1
32.5°	1318.6	1317.3	1318.6	1321.2	1325.3	1327.9	1330.7	1332.0	1332.0	1332.0	1333.3
35°	1306.6	1308.0	1310.6	1313.3	1318.6	1321.2	1324.0	1327.9	1329.3	1329.3	1329.3
37.5°	1309.2	1310.6	1314.7	1320.0	1326.7	1334.6	1340.0	1345.3	1349.4	1348.0	1346.7
40°	1326.7	1329.3	1336.0	1344.1	1354.7	1365.4	1373.5	1380.2	1384.2	1385.5	1384.2
42.5°	1329.3	1332.0	1337.4	1349.4	1361.4	1373.5	1384.2	1390.9	1396.2	1397.6	1396.2
45°	1327.9	1327.9	1336.0	1349.4	1361.4	1373.5	1386.9	1396.2	1401.5	1401.5	1401.5
47.5°	1318.6	1322.6	1327.9	1341.3	1357.3	1369.4	1382.8	1392.2	1398.8	1402.9	1398.8
50°	1318.6	1318.6	1327.9	1337.4	1352.0	1373.5	1392.2	1401.5	1408.2	1406.9	1408.2
52.5°	1315.9	1324.0	1329.3	1342.7	1369.4	1390.9	1405.5	1418.9	1428.3	1429.6	1427.0
55°	1340.0	1341.3	1353.4	1378.8	1404.3	1428.3	1455.0	1475.1	1491.1	1500.6	1487.2
57.5°	1358.7	1352.0	1376.1	1397.6	1427.0	1463.1	1503.2	1519.2	1531.2	1528.6	1532.6
60°	1333.3	1342.7	1360.1	1382.8	1429.6	1465.7	1487.2	1504.5	1519.2	1523.3	1517.9
61°	1321.2	1337.4	1345.3	1376.1	1425.6	1452.4	1475.1	1499.2	1525.9	1535.3	1523.3
62.5°	1301.3	1326.7	1324.0	1373.5	1404.3	1434.9	1477.7	1505.9	1524.6	1527.2	1524.6
65°	1302.6	1298.5	1329.3	1365.4	1396.2	1451.0	1487.2	1504.5	1515.2	1520.5	1517.9
67.5°	1259.8	1246.4	1283.9	1309.2	1361.4	1404.3	1439.0	1464.4	1480.5	1485.8	1479.1
70°	1160.8	1170.2	1196.9	1235.7	1278.6	1330.7	1362.8	1396.2	1409.6	1410.8	1410.8
72.5°	1065.9	1071.2	1098.0	1134.1	1183.5	1229.0	1261.0	1287.9	1299.9	1301.3	1303.9
75°	940.1	945.5	976.3	1009.6	1059.1	1098.0	1120.7	1152.8	1170.2	1184.9	1172.8
77.5°	794.3	803.8	827.8	864.0	909.4	930.8	970.9	1008.4	1020.4	1024.4	1020.4
80°	629.9	641.9	663.3	711.4	731.5	766.3	805.1	821.1	831.8	834.5	835.8
82.5°	453.3	462.8	485.5	518.8	541.7	569.7	596.4	616.5	628.5	625.9	624.6
85°	267.4	270.2	294.2	316.9	334.3	351.7	373.2	387.8	390.5	395.9	394.5
87.5°	80.3	81.5	92.3	104.4	112.3	120.4	133.8	151.2	155.1	144.4	145.8
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°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1390.9	1392.2
5°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
7.5°	1390.9	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5
10°	1388.1	1388.1	1388.1	1388.1	1386.9	1386.9	1386.9	1386.9
12.5°	1385.5	1385.5	1385.5	1385.5	1384.2	1384.2	1384.2	1384.2
15°	1382.8	1382.8	1382.8	1382.8	1381.4	1381.4	1381.4	1381.4
17.5°	1384.2	1382.8	1381.4	1381.4	1380.2	1378.8	1378.8	1378.8
20°	1392.2	1390.9	1388.1	1385.5	1384.2	1382.8	1382.8	1382.8
22.5°	1381.4	1380.2	1377.5	1376.1	1376.1	1374.9	1373.5	1373.5
25°	1369.4	1366.8	1366.8	1365.4	1365.4	1362.8	1362.8	1361.4
27.5°	1356.1	1354.7	1353.4	1352.0	1352.0	1350.8	1349.4	1348.0
30°	1344.1	1341.3	1338.7	1337.4	1336.0	1334.6	1334.6	1334.6
32.5°	1332.0	1329.3	1327.9	1324.0	1321.2	1320.0	1318.6	1318.6
35°	1327.9	1324.0	1321.2	1317.3	1313.3	1310.6	1309.2	1306.6
37.5°	1344.1	1338.7	1334.6	1327.9	1318.6	1314.7	1310.6	1309.2
40°	1378.8	1373.5	1365.4	1354.7	1344.1	1336.0	1329.3	1326.7
42.5°	1390.9	1384.2	1373.5	1362.8	1349.4	1337.4	1332.0	1329.3
45°	1394.8	1388.1	1373.5	1360.1	1348.0	1337.4	1329.3	1326.7
47.5°	1390.9	1381.4	1368.2	1357.3	1340.0	1326.7	1321.2	1317.3
50°	1400.2	1392.2	1374.9	1350.8	1336.0	1327.9	1318.6	1317.3
52.5°	1418.9	1404.3	1388.1	1370.7	1342.7	1326.7	1321.2	1314.7
55°	1475.1	1455.0	1427.0	1398.8	1381.4	1356.1	1340.0	1340.0
57.5°	1517.9	1501.8	1465.7	1428.3	1396.2	1377.5	1353.4	1354.7
60°	1505.9	1484.4	1467.0	1429.6	1384.2	1358.7	1349.4	1332.0
61°	1504.5	1475.1	1451.0	1421.6	1382.8	1342.7	1340.0	1317.3
62.5°	1507.1	1480.5	1434.9	1404.3	1374.9	1322.6	1321.2	1299.9
65°	1504.5	1479.1	1456.4	1398.8	1358.7	1337.4	1291.8	1309.2
67.5°	1463.1	1440.4	1398.8	1366.8	1305.2	1278.6	1253.1	1253.1
70°	1397.6	1364.0	1324.0	1283.9	1242.4	1196.9	1174.2	1160.8
72.5°	1287.9	1259.8	1227.7	1184.9	1134.1	1092.7	1071.2	1061.9
75°	1150.1	1119.3	1091.3	1059.1	1005.7	970.9	948.2	941.5
77.5°	1005.7	979.0	929.5	898.7	862.6	822.5	802.4	794.3
80°	821.1	806.4	771.6	722.1	704.7	655.4	641.9	629.9
82.5°	616.5	600.5	568.4	533.6	512.3	484.1	460.0	457.4
85°	387.8	377.1	357.0	331.7	304.9	288.9	267.4	272.8
87.5°	144.4	137.7	125.7	109.7	97.7	86.9	76.2	80.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)