

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: P197811

Luminaire Tested: **TT-C4-LED-E1-WQ-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
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-WQ-CG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5927.7 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - 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



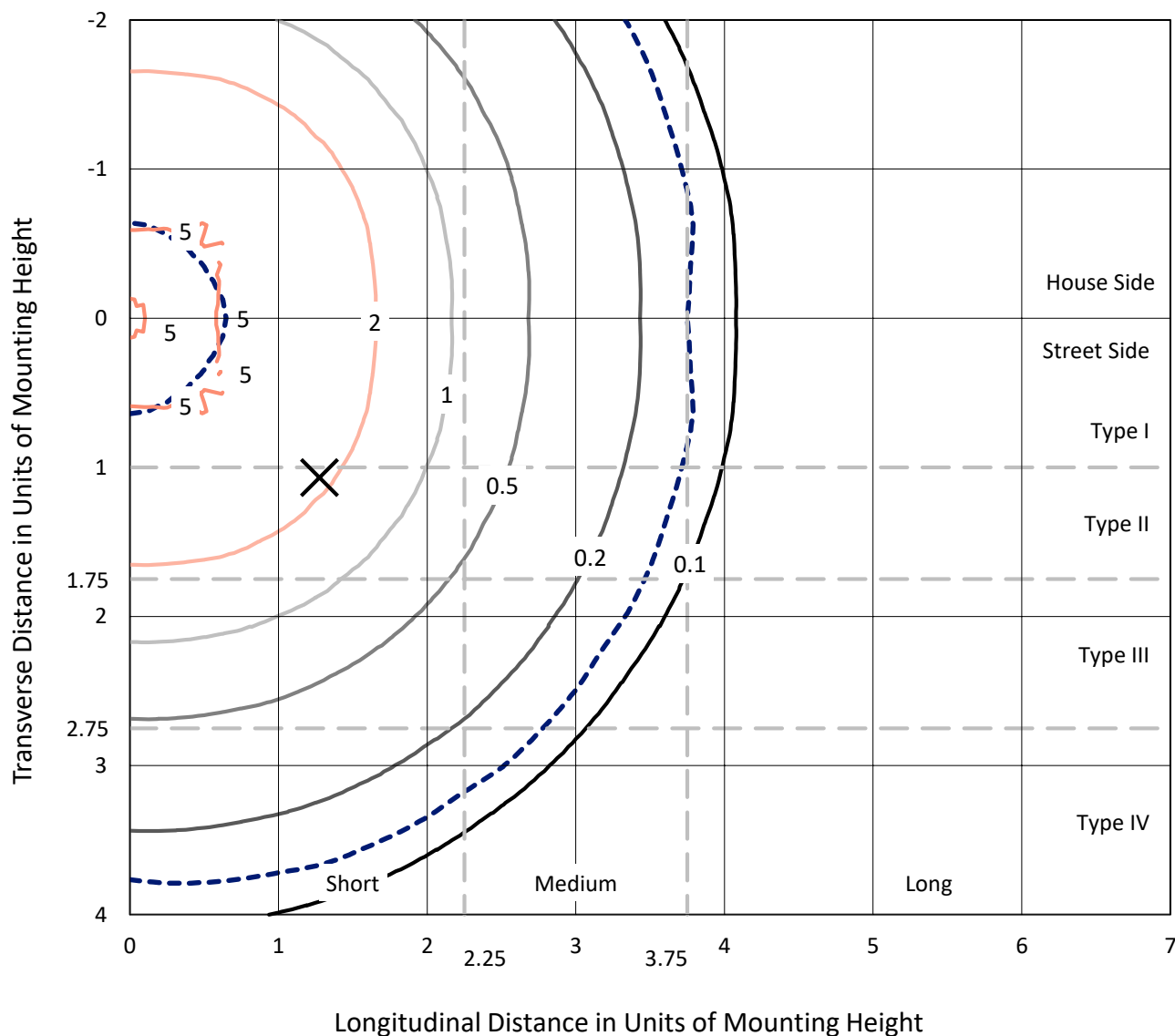
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

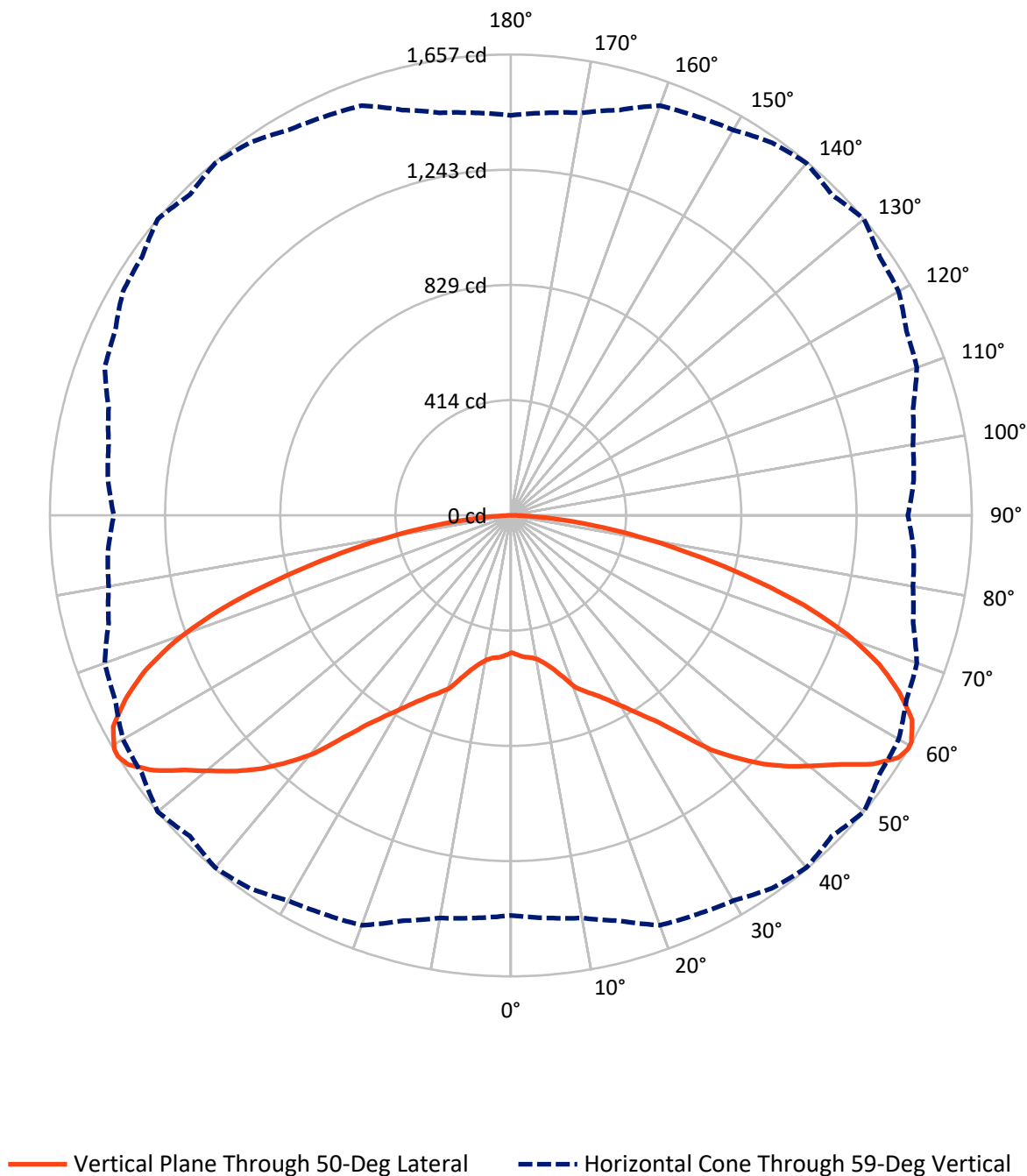


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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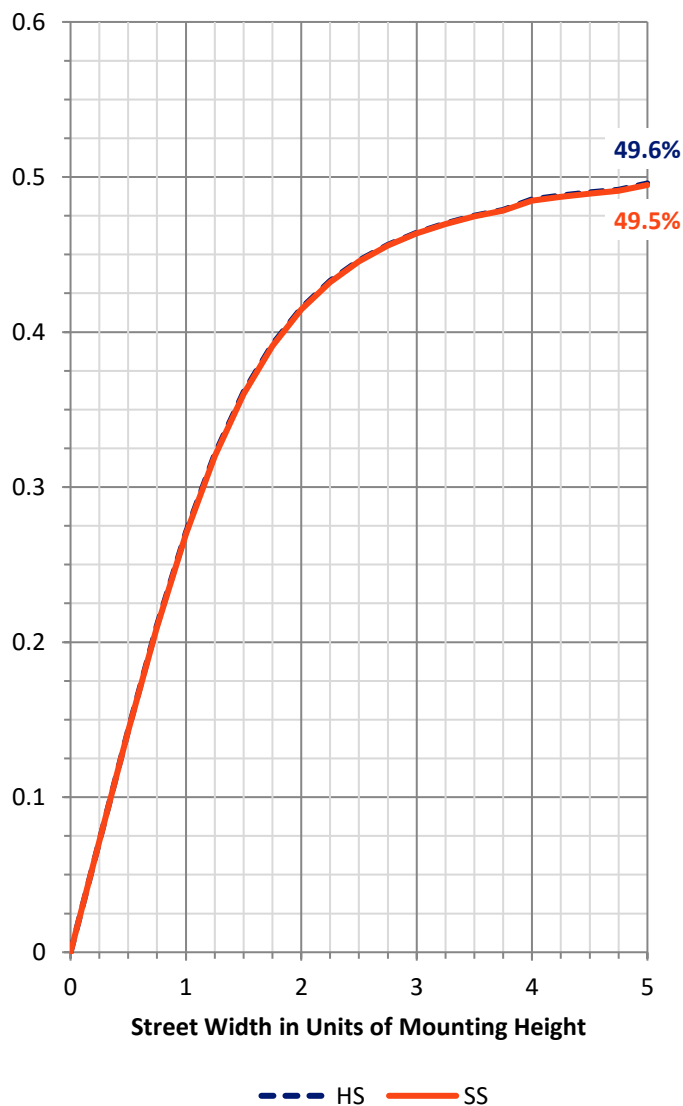
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2963.9	0.0	2963.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2963.9	0.0	2963.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5927.7	0.0	5927.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	0.8
10°-20°	165.5	2.8
20°-30°	333.2	5.6
30°-40°	573.3	9.7
40°-50°	946.5	16.0
50°-60°	1332.8	22.5
60°-70°	1425.9	24.1
70°-80°	905.7	15.3
80°-90°	195.7	3.3
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°	5927.7	100.0
0°-180°	5927.7	100.0

Coefficient of Utilization



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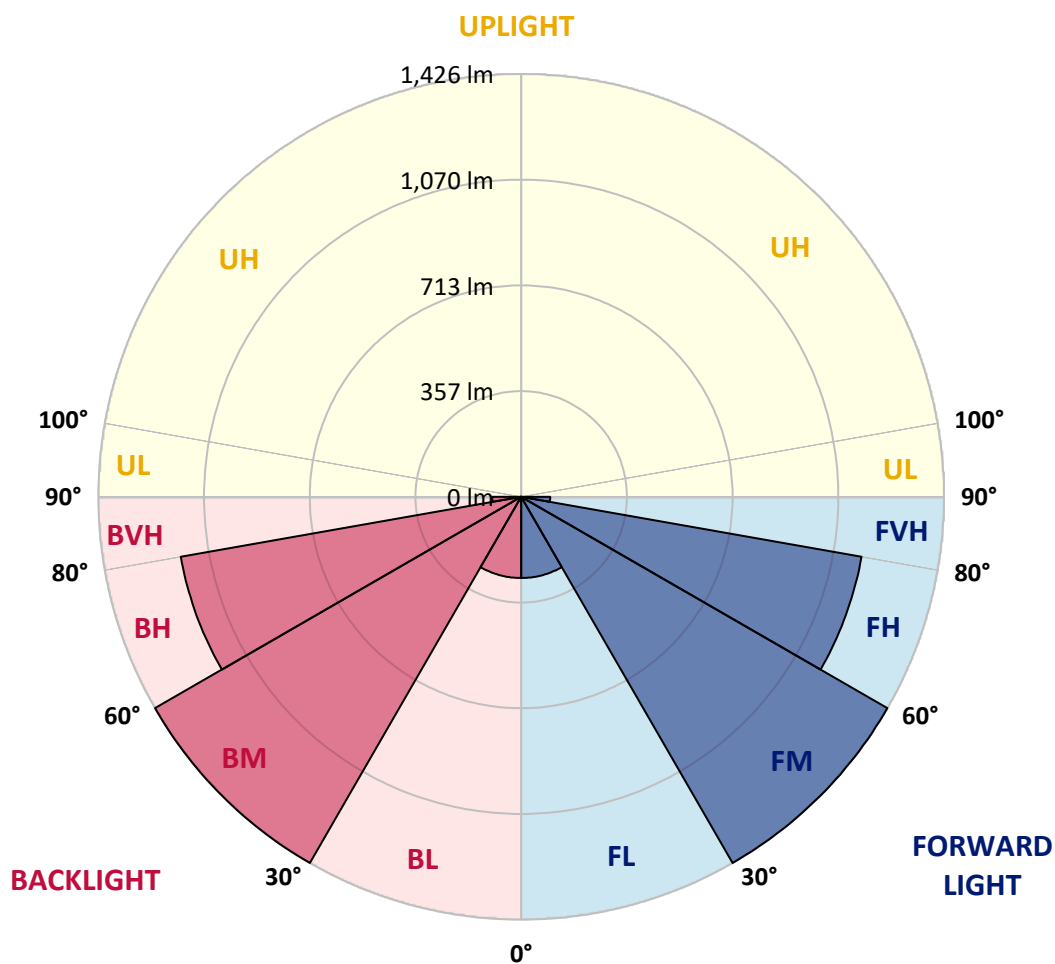
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	273.9	4.6			
FM	(30°-60°)	1426.3	24.1			
FH	(60°-80°)	1165.8	19.7			G1/1800
FVH	(80°-90°)	97.9	1.7			G1/100
BL	(0°-30°)	273.9	4.6	B1/500		
BM	(30°-60°)	1426.3	24.1	B2/2500		
BH	(60°-80°)	1165.8	19.7	B3/2500		G1/1800
BVH	(80°-90°)	97.9	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3
2.5°	503.8	502.5	502.5	502.5	502.5	502.5	502.5	502.5	502.5	502.5	502.5
5°	506.5	506.5	507.8	507.8	509.1	509.1	509.1	510.4	510.4	510.4	511.7
7.5°	511.7	510.4	511.7	511.7	511.7	513.0	513.0	513.0	514.3	515.6	515.6
10°	528.8	527.5	528.8	528.8	528.8	526.1	526.1	527.5	526.1	526.1	526.1
12.5°	548.4	548.4	549.8	551.1	551.1	549.8	548.4	547.1	545.8	545.8	545.8
15°	566.8	568.1	569.4	572.1	573.4	573.4	574.7	576.0	574.7	574.7	573.4
17.5°	595.7	598.3	599.6	600.9	600.9	600.9	603.6	607.5	611.4	614.0	611.4
20°	644.2	645.5	648.2	648.2	646.9	648.2	650.8	652.1	654.7	657.3	658.7
22.5°	677.0	679.7	683.6	683.6	682.3	683.6	686.2	686.2	683.6	684.9	687.5
25°	704.6	705.9	708.5	709.8	711.1	717.7	723.0	721.6	716.4	717.7	716.4
27.5°	737.4	740.0	742.6	742.6	742.6	746.6	751.8	754.4	758.4	757.1	753.1
30°	780.7	784.6	785.9	784.6	787.2	791.2	789.9	792.5	799.1	805.6	797.7
32.5°	814.8	818.7	822.7	827.9	837.1	842.3	839.7	841.0	845.0	850.2	850.2
35°	866.0	872.5	875.2	876.5	885.6	896.1	904.0	910.6	909.3	905.3	911.9
37.5°	943.4	949.9	952.6	957.8	969.6	972.2	984.1	999.8	1005.0	999.8	999.8
40°	1026.0	1032.6	1045.7	1057.5	1075.9	1079.8	1094.3	1100.8	1113.9	1115.3	1107.4
42.5°	1094.3	1102.1	1104.8	1124.4	1149.4	1167.7	1183.5	1184.8	1194.0	1201.9	1192.7
45°	1167.7	1174.3	1178.2	1196.6	1209.7	1232.0	1257.0	1267.5	1271.4	1270.1	1275.3
47.5°	1236.0	1245.2	1249.1	1263.5	1279.3	1297.6	1312.1	1342.2	1348.8	1335.7	1347.5
50°	1278.0	1288.5	1297.6	1329.1	1356.7	1371.1	1382.9	1407.9	1422.3	1410.5	1414.4
52.5°	1343.6	1346.2	1354.1	1367.2	1407.9	1456.4	1469.5	1477.4	1498.4	1504.9	1486.6
55°	1432.8	1442.0	1448.5	1465.6	1482.6	1516.8	1574.5	1585.0	1579.7	1611.2	1578.4
57.5°	1445.9	1463.0	1482.6	1520.7	1554.8	1565.3	1599.4	1640.1	1636.2	1640.1	1642.7
59°	1438.0	1452.5	1469.5	1508.9	1567.9	1582.4	1599.4	1636.2	1653.2	1630.9	1657.1
60°	1440.7	1451.2	1460.3	1491.8	1554.8	1587.6	1598.1	1620.4	1653.2	1623.0	1654.5
62.5°	1430.2	1443.3	1453.8	1472.1	1502.3	1548.2	1588.9	1578.4	1625.7	1602.0	1619.1
65°	1373.7	1388.2	1409.2	1435.4	1470.8	1484.0	1524.6	1546.9	1536.4	1562.7	1535.1
67.5°	1279.3	1292.4	1305.5	1337.0	1376.4	1393.4	1403.9	1444.6	1430.2	1460.3	1428.8
70°	1153.3	1167.7	1186.1	1203.2	1238.6	1253.0	1264.8	1283.2	1288.5	1288.5	1285.8
72.5°	1002.4	1014.2	1026.0	1043.1	1064.1	1077.2	1082.5	1086.4	1107.4	1099.5	1100.8
75°	831.9	843.7	848.9	855.5	869.9	868.6	873.8	871.2	884.3	879.1	876.5
77.5°	650.8	654.7	669.2	669.2	665.2	671.8	665.2	661.3	658.7	661.3	661.3
80°	451.4	463.2	472.3	478.9	481.5	478.9	480.2	475.0	475.0	471.0	472.3
82.5°	278.2	290.0	293.9	300.5	301.8	301.8	301.8	297.8	299.2	295.2	297.8
85°	136.5	136.5	141.7	148.3	149.6	152.2	152.2	152.2	152.2	152.2	153.5
87.5°	34.1	34.1	36.7	40.7	40.7	42.0	43.3	44.6	44.6	45.9	45.9
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°	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3
2.5°	502.5	502.5	502.5	502.5	502.5	502.5	502.5	502.5
5°	511.7	510.4	510.4	509.1	509.1	507.8	507.8	507.8
7.5°	517.0	517.0	515.6	514.3	513.0	513.0	514.3	514.3
10°	527.5	530.1	531.4	531.4	530.1	530.1	528.8	528.8
12.5°	544.5	547.1	549.8	552.4	552.4	551.1	548.4	547.1
15°	570.8	570.8	572.1	573.4	573.4	570.8	565.5	565.5
17.5°	606.2	603.6	599.6	600.9	602.2	600.9	595.7	598.3
20°	654.7	649.5	646.9	644.2	649.5	649.5	641.6	641.6
22.5°	690.1	686.2	679.7	678.3	682.3	684.9	678.3	674.4
25°	720.3	721.6	713.8	709.8	711.1	712.5	703.3	704.6
27.5°	753.1	754.4	750.5	743.9	741.3	745.3	738.7	736.1
30°	792.5	791.2	793.8	785.9	779.4	783.3	783.3	776.7
32.5°	843.7	839.7	841.0	831.9	824.0	822.7	817.4	809.5
35°	913.2	902.7	894.8	889.6	875.2	872.5	872.5	863.3
37.5°	1003.7	988.0	973.6	973.6	951.3	944.7	948.6	936.8
40°	1104.8	1099.5	1077.2	1073.3	1049.7	1033.9	1033.9	1019.5
42.5°	1178.2	1184.8	1158.6	1142.8	1127.1	1102.1	1104.8	1086.4
45°	1258.3	1254.3	1232.0	1204.5	1199.2	1173.0	1175.6	1157.2
47.5°	1334.4	1310.8	1300.3	1272.7	1260.9	1230.7	1239.9	1225.5
50°	1407.9	1381.6	1371.1	1338.3	1322.6	1289.8	1291.1	1264.8
52.5°	1484.0	1460.3	1444.6	1402.6	1375.1	1351.4	1346.2	1334.4
55°	1582.4	1557.4	1519.4	1480.0	1459.0	1424.9	1428.8	1410.5
57.5°	1620.4	1604.7	1564.0	1540.4	1501.0	1466.9	1459.0	1426.2
59°	1619.1	1609.9	1569.2	1553.5	1497.1	1468.2	1453.8	1427.5
60°	1609.9	1607.3	1566.6	1546.9	1487.9	1461.6	1448.5	1431.5
62.5°	1582.4	1581.0	1535.1	1511.5	1463.0	1442.0	1434.1	1411.8
65°	1541.7	1519.4	1484.0	1468.2	1418.3	1402.6	1380.3	1358.0
67.5°	1444.6	1394.7	1389.5	1369.8	1326.5	1306.8	1292.4	1271.4
70°	1284.5	1251.7	1251.7	1226.8	1196.6	1187.4	1167.7	1144.1
72.5°	1085.1	1077.2	1081.1	1052.3	1037.8	1032.6	1015.5	994.6
75°	867.3	868.6	864.7	858.1	854.2	855.5	837.1	827.9
77.5°	657.3	669.2	666.5	657.3	666.5	665.2	649.5	645.5
80°	468.4	473.7	476.3	471.0	476.3	472.3	459.2	457.9
82.5°	295.2	296.5	299.2	293.9	295.2	293.9	284.7	284.7
85°	150.9	156.1	149.6	144.3	144.3	139.1	136.5	137.8
87.5°	44.6	47.2	42.0	42.0	39.4	36.7	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)