

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: P197813

Luminaire Tested: **TT-C5-LED-E1-WQ-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197813
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-C5-LED-E1-WQ-CG-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE 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: 5847.3 lumens
Efficiency: N/A
Efficacy: 75.9 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): 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



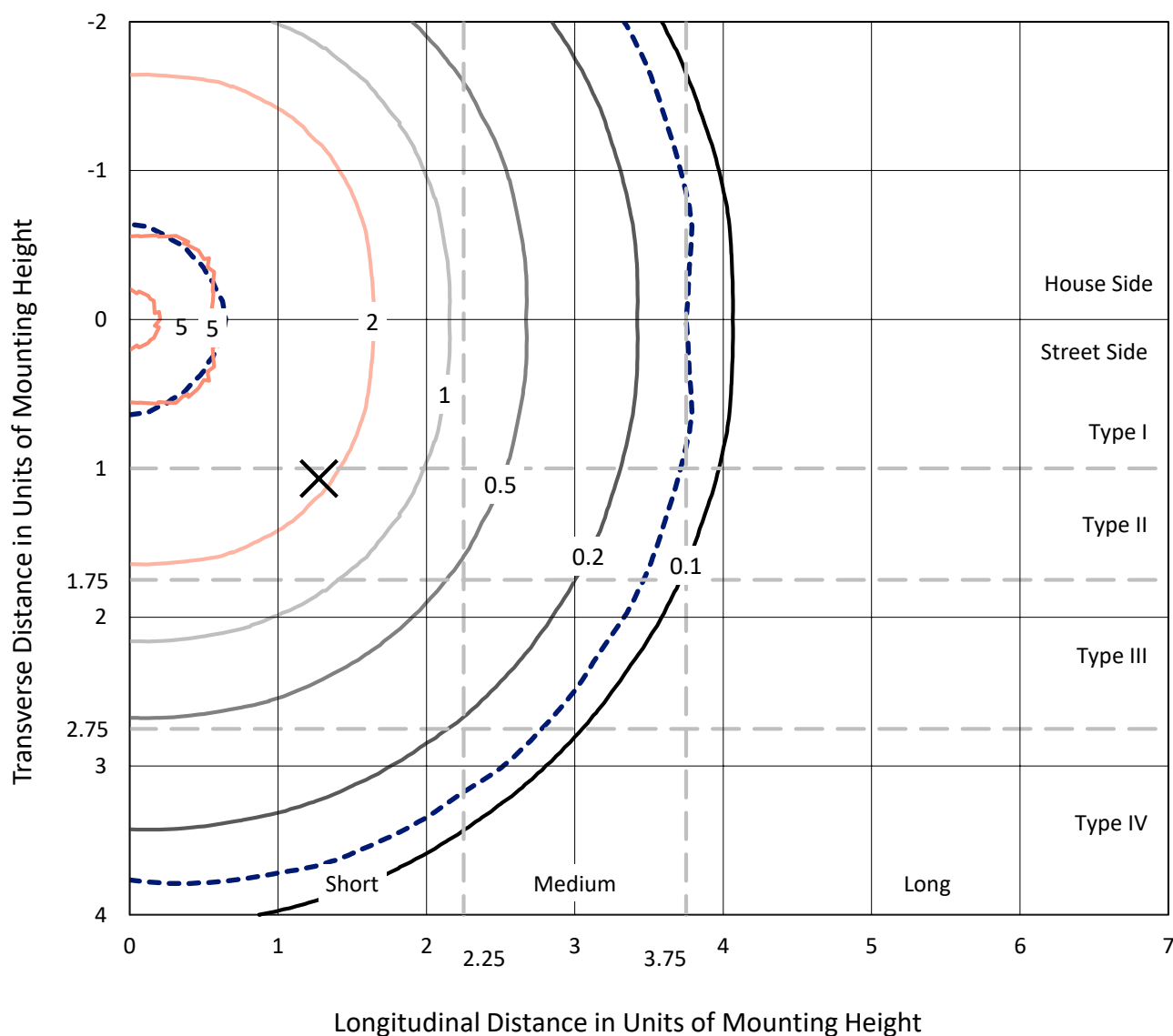
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

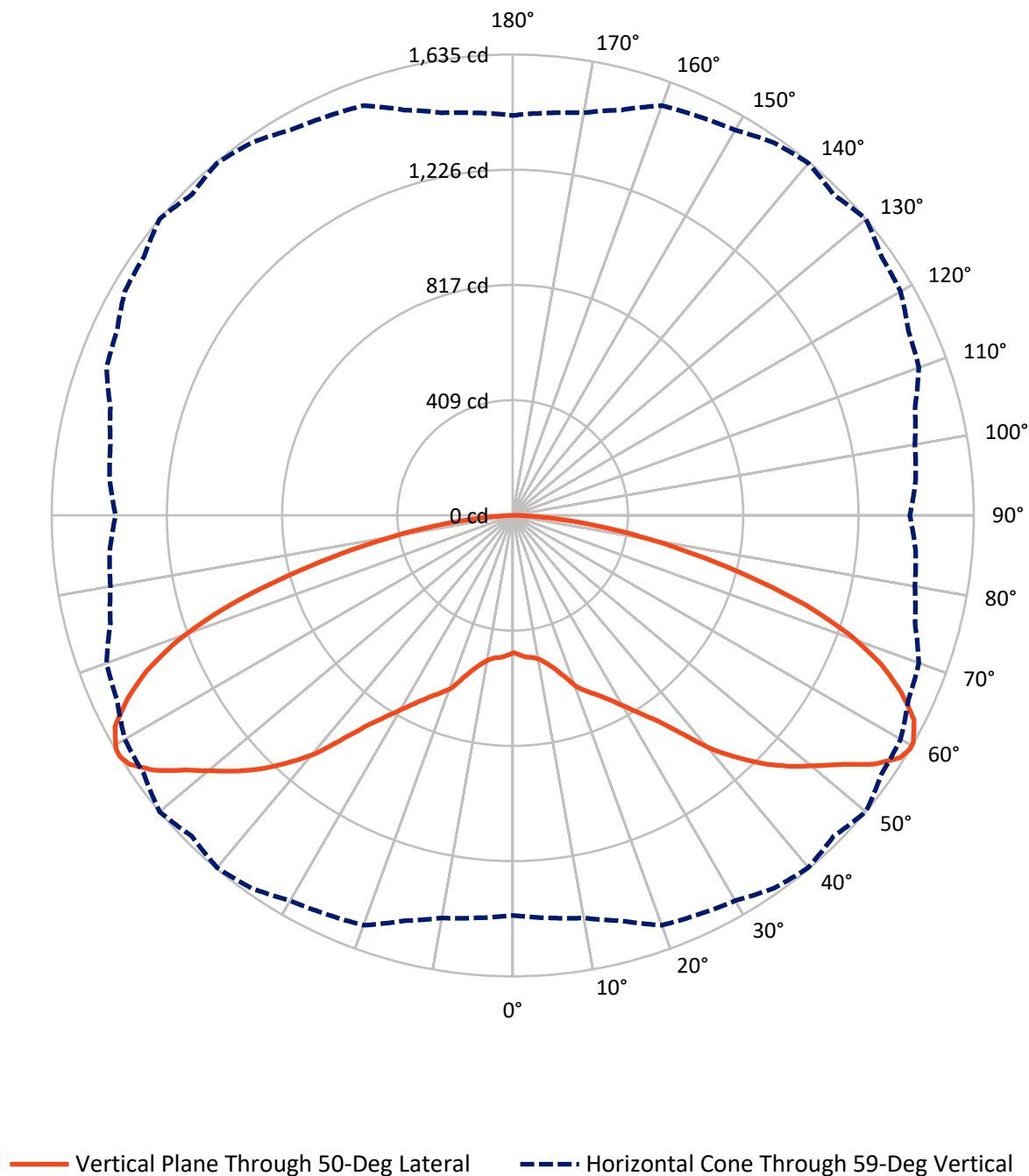


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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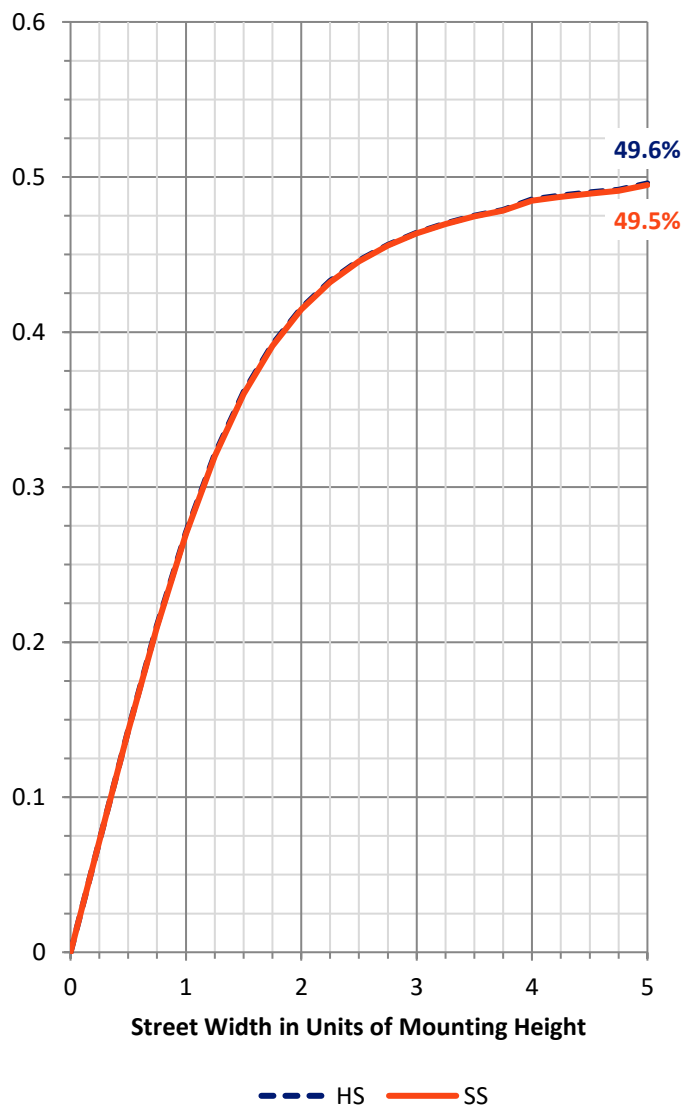
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2923.6	0.0	2923.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2923.6	0.0	2923.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5847.3	0.0	5847.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.8
10°-20°	163.3	2.8
20°-30°	328.7	5.6
30°-40°	565.5	9.7
40°-50°	933.7	16.0
50°-60°	1314.8	22.5
60°-70°	1406.5	24.1
70°-80°	893.4	15.3
80°-90°	193.1	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°	5847.3	100.0
0°-180°	5847.3	100.0

Coefficient of Utilization



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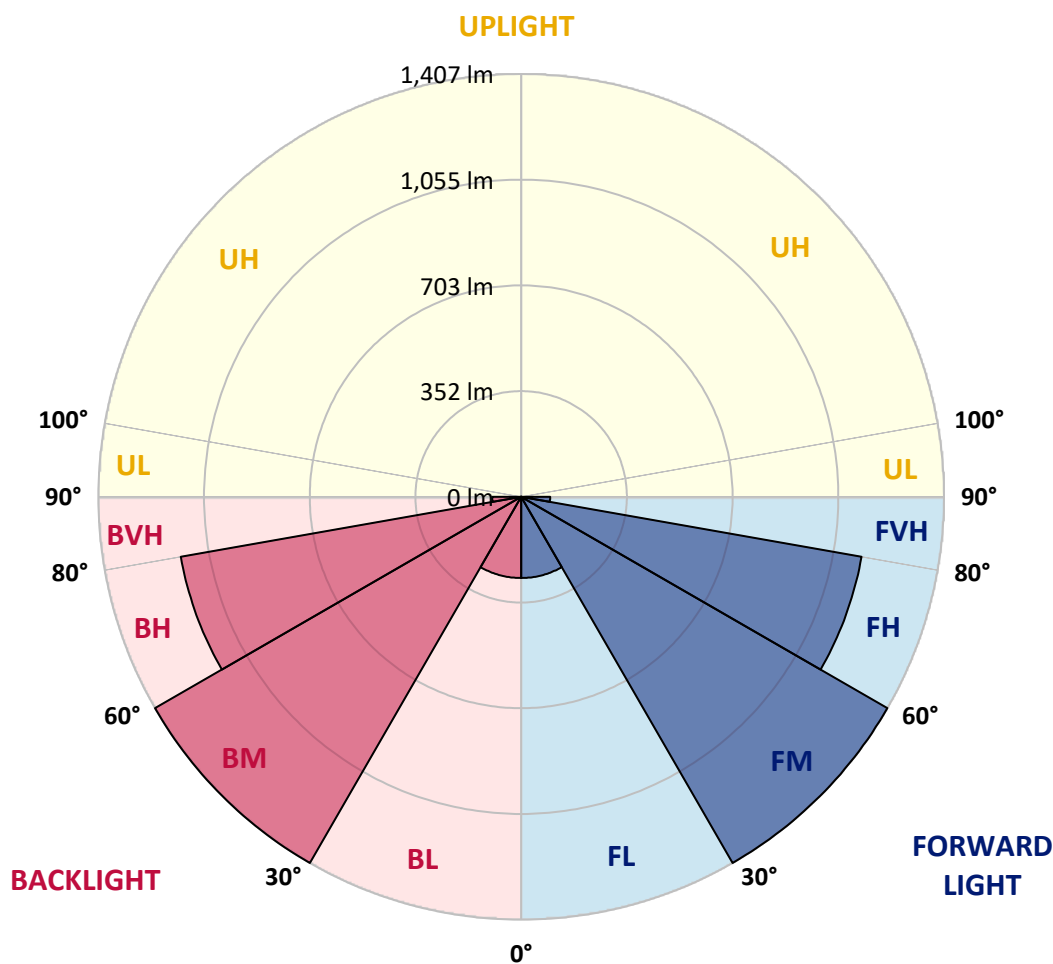
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.2	4.6			
FM	(30°-60°)	1407.0	24.1			
FH	(60°-80°)	1150.0	19.7			G1/1800
FVH	(80°-90°)	96.5	1.7			G1/100
BL	(0°-30°)	270.2	4.6	B1/500		
BM	(30°-60°)	1407.0	24.1	B2/2500		
BH	(60°-80°)	1150.0	19.7	B3/2500		G1/1800
BVH	(80°-90°)	96.5	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°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6
2.5°	497.0	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7
5°	499.6	499.6	500.9	500.9	502.2	502.2	502.2	503.5	503.5	503.5	504.8
7.5°	504.8	503.5	504.8	504.8	504.8	506.1	506.1	506.1	507.4	508.6	508.6
10°	521.6	520.3	521.6	521.6	521.6	519.0	519.0	520.3	519.0	519.0	519.0
12.5°	541.0	541.0	542.3	543.6	543.6	542.3	541.0	539.7	538.4	538.4	538.4
15°	559.1	560.4	561.7	564.3	565.6	565.6	566.9	568.2	566.9	566.9	565.6
17.5°	587.6	590.2	591.5	592.8	592.8	592.8	595.4	599.2	603.1	605.7	603.1
20°	635.5	636.8	639.4	639.4	638.1	639.4	642.0	643.2	645.8	648.4	649.7
22.5°	667.8	670.4	674.3	674.3	673.0	674.3	676.9	676.9	674.3	675.6	678.2
25°	695.0	696.3	698.9	700.2	701.5	708.0	713.1	711.8	706.7	708.0	706.7
27.5°	727.4	730.0	732.6	732.6	732.6	736.4	741.6	744.2	748.1	746.8	742.9
30°	770.1	774.0	775.3	774.0	776.6	780.4	779.1	781.7	788.2	794.7	786.9
32.5°	803.7	807.6	811.5	816.7	825.7	830.9	828.3	829.6	833.5	838.7	838.7
35°	854.2	860.7	863.3	864.6	873.6	884.0	891.7	898.2	896.9	893.0	899.5
37.5°	930.6	937.0	939.6	944.8	956.5	959.1	970.7	986.2	991.4	986.2	986.2
40°	1012.1	1018.6	1031.5	1043.2	1061.3	1065.2	1079.4	1085.9	1098.8	1100.1	1092.4
42.5°	1079.4	1087.2	1089.8	1109.2	1133.8	1151.9	1167.4	1168.7	1177.8	1185.5	1176.5
45°	1151.9	1158.4	1162.3	1180.4	1193.3	1215.3	1239.9	1250.3	1254.1	1252.8	1258.0
47.5°	1219.2	1228.3	1232.1	1246.4	1261.9	1280.0	1294.3	1324.0	1330.5	1317.6	1329.2
50°	1260.6	1271.0	1280.0	1311.1	1338.3	1352.5	1364.2	1388.7	1403.0	1391.3	1395.2
52.5°	1325.3	1327.9	1335.7	1348.6	1388.7	1436.6	1449.6	1457.3	1478.1	1484.5	1466.4
55°	1413.3	1422.4	1428.9	1445.7	1462.5	1496.2	1553.1	1563.5	1558.3	1589.4	1557.0
57.5°	1426.3	1443.1	1462.5	1500.1	1533.7	1544.1	1577.7	1617.8	1613.9	1617.8	1620.4
59°	1418.5	1432.8	1449.6	1488.4	1546.6	1560.9	1577.7	1613.9	1630.8	1608.8	1634.7
60°	1421.1	1431.5	1440.5	1471.6	1533.7	1566.1	1576.4	1598.4	1630.8	1601.0	1632.1
62.5°	1410.7	1423.7	1434.0	1452.2	1481.9	1527.2	1567.4	1557.0	1603.6	1580.3	1597.1
65°	1355.1	1369.3	1390.0	1415.9	1450.9	1463.8	1503.9	1525.9	1515.6	1541.5	1514.3
67.5°	1261.9	1274.9	1287.8	1318.9	1357.7	1374.5	1384.9	1425.0	1410.7	1440.5	1409.5
70°	1137.7	1151.9	1170.0	1186.8	1221.8	1236.0	1247.7	1265.8	1271.0	1271.0	1268.4
72.5°	988.8	1000.5	1012.1	1028.9	1049.6	1062.6	1067.8	1071.7	1092.4	1084.6	1085.9
75°	820.6	832.2	837.4	843.9	858.1	856.8	862.0	859.4	872.3	867.2	864.6
77.5°	642.0	645.8	660.1	660.1	656.2	662.7	656.2	652.3	649.7	652.3	652.3
80°	445.2	456.9	465.9	472.4	475.0	472.4	473.7	468.5	468.5	464.6	465.9
82.5°	274.4	286.0	289.9	296.4	297.7	297.7	297.7	293.8	295.1	291.2	293.8
85°	134.6	134.6	139.8	146.3	147.5	150.1	150.1	150.1	150.1	150.1	151.4
87.5°	33.7	33.7	36.2	40.1	40.1	41.4	42.7	44.0	44.0	45.3	45.3
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°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6
2.5°	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7
5°	504.8	503.5	503.5	502.2	502.2	500.9	500.9	500.9
7.5°	509.9	509.9	508.6	507.4	506.1	506.1	507.4	507.4
10°	520.3	522.9	524.2	524.2	522.9	522.9	521.6	521.6
12.5°	537.1	539.7	542.3	544.9	544.9	543.6	541.0	539.7
15°	563.0	563.0	564.3	565.6	565.6	563.0	557.8	557.8
17.5°	598.0	595.4	591.5	592.8	594.1	592.8	587.6	590.2
20°	645.8	640.7	638.1	635.5	640.7	640.7	632.9	632.9
22.5°	680.8	676.9	670.4	669.1	673.0	675.6	669.1	665.3
25°	710.6	711.8	704.1	700.2	701.5	702.8	693.7	695.0
27.5°	742.9	744.2	740.3	733.8	731.3	735.1	728.7	726.1
30°	781.7	780.4	783.0	775.3	768.8	772.7	772.7	766.2
32.5°	832.2	828.3	829.6	820.6	812.8	811.5	806.3	798.6
35°	900.8	890.5	882.7	877.5	863.3	860.7	860.7	851.6
37.5°	990.1	974.6	960.3	960.3	938.3	931.9	935.8	924.1
40°	1089.8	1084.6	1062.6	1058.7	1035.4	1019.9	1019.9	1005.6
42.5°	1162.3	1168.7	1142.8	1127.3	1111.8	1087.2	1089.8	1071.7
45°	1241.2	1237.3	1215.3	1188.1	1183.0	1157.1	1159.7	1141.5
47.5°	1316.3	1293.0	1282.6	1255.4	1243.8	1214.0	1223.1	1208.8
50°	1388.7	1362.9	1352.5	1320.2	1304.6	1272.3	1273.6	1247.7
52.5°	1463.8	1440.5	1425.0	1383.6	1356.4	1333.1	1327.9	1316.3
55°	1560.9	1536.3	1498.8	1459.9	1439.2	1405.6	1409.5	1391.3
57.5°	1598.4	1582.9	1542.8	1519.5	1480.6	1447.0	1439.2	1406.9
59°	1597.1	1588.1	1547.9	1532.4	1476.8	1448.3	1434.0	1408.2
60°	1588.1	1585.5	1545.4	1525.9	1467.7	1441.8	1428.9	1412.0
62.5°	1560.9	1559.6	1514.3	1491.0	1443.1	1422.4	1414.6	1392.6
65°	1520.8	1498.8	1463.8	1448.3	1399.1	1383.6	1361.6	1339.6
67.5°	1425.0	1375.8	1370.6	1351.2	1308.5	1289.1	1274.9	1254.1
70°	1267.1	1234.7	1234.7	1210.1	1180.4	1171.3	1151.9	1128.6
72.5°	1070.4	1062.6	1066.5	1038.0	1023.8	1018.6	1001.8	981.1
75°	855.5	856.8	852.9	846.4	842.6	843.9	825.7	816.7
77.5°	648.4	660.1	657.5	648.4	657.5	656.2	640.7	636.8
80°	462.1	467.2	469.8	464.6	469.8	465.9	453.0	451.7
82.5°	291.2	292.5	295.1	289.9	291.2	289.9	280.9	280.9
85°	148.8	154.0	147.5	142.4	142.4	137.2	134.6	135.9
87.5°	44.0	46.6	41.4	41.4	38.8	36.2	34.9	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)