

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: P197860

Luminaire Tested: **TT-C4-LED-E1-WQ-CG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6440.8 lumens
Efficiency: N/A
Efficacy: 111.0 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): 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



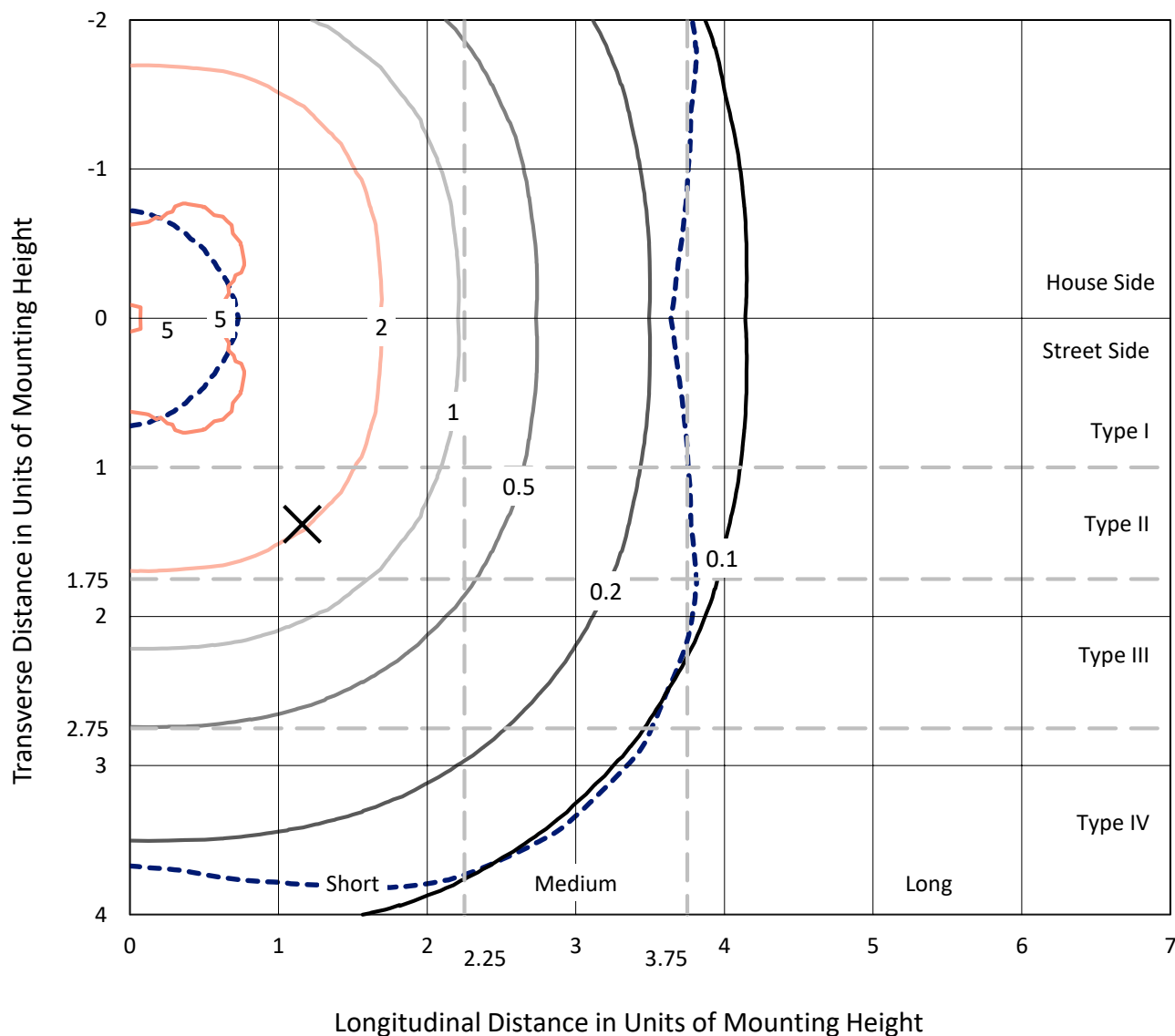
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

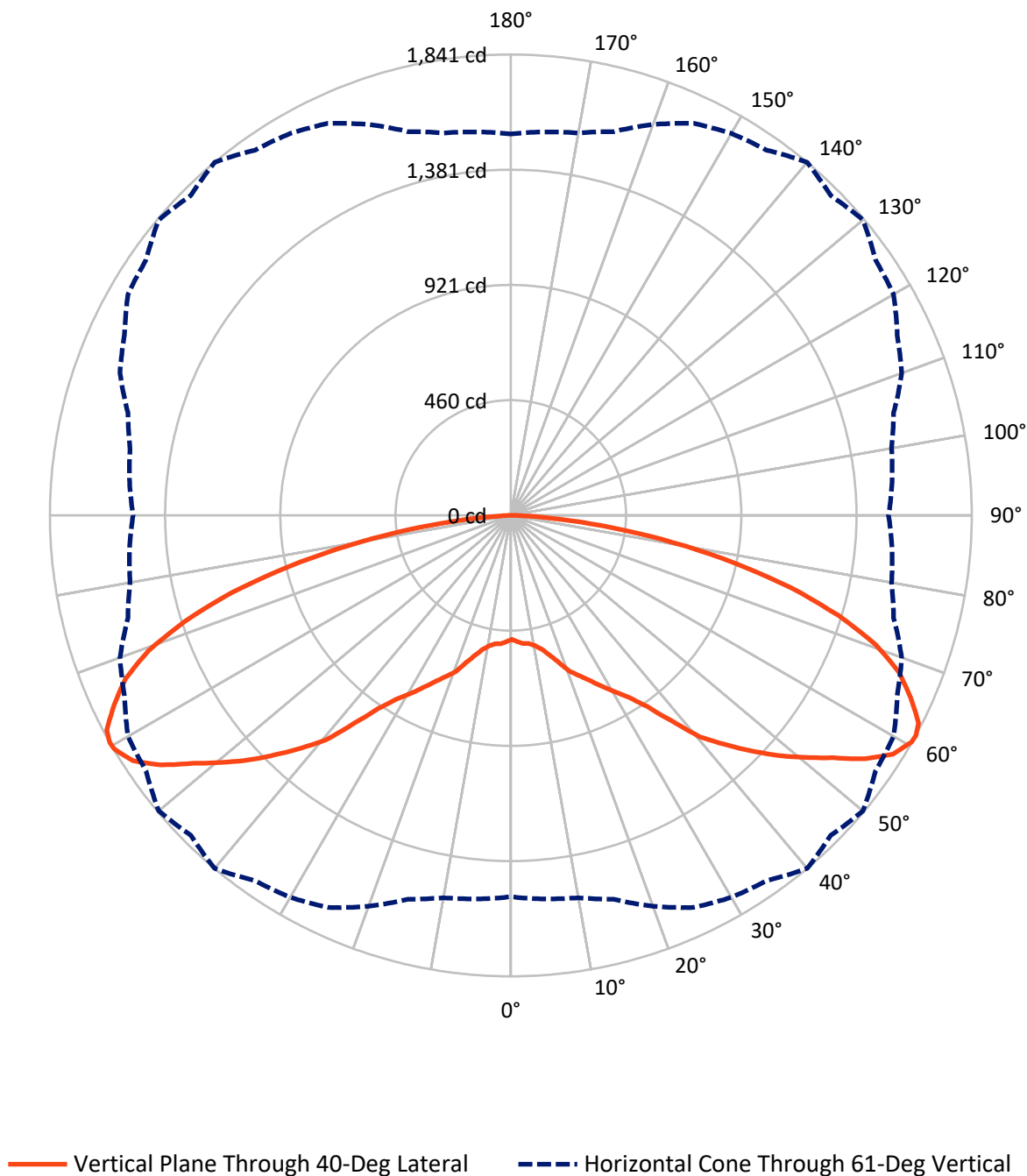


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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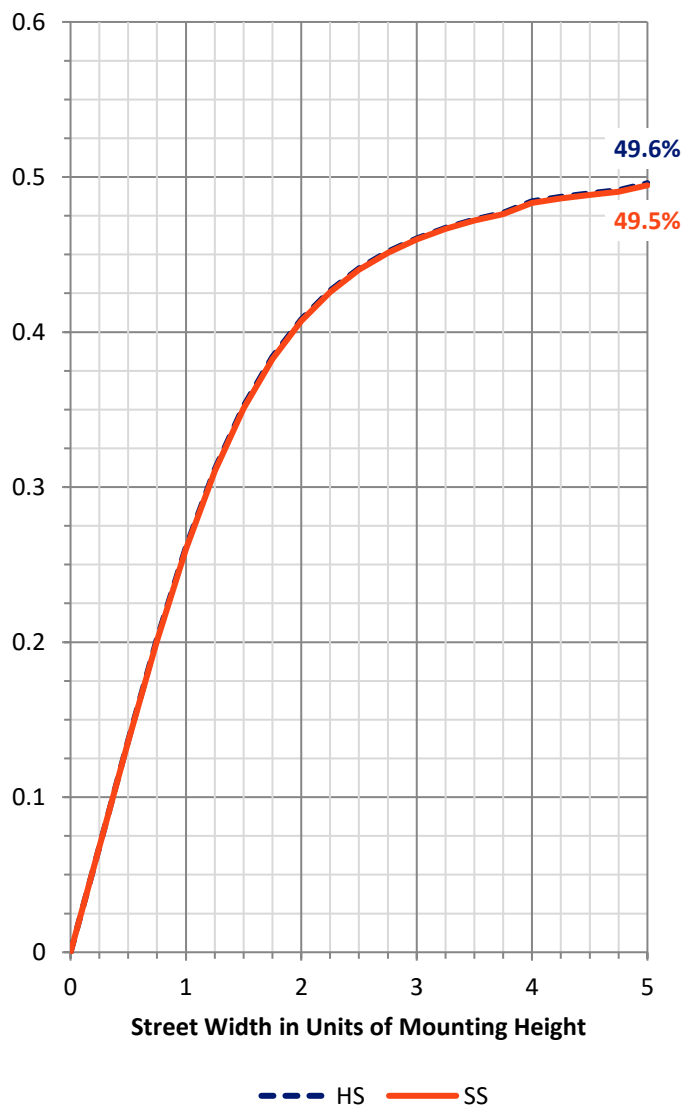
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3220.4	0.0	3220.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3220.4	0.0	3220.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6440.8	0.0	6440.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	0.8
10°-20°	166.5	2.6
20°-30°	337.7	5.2
30°-40°	587.4	9.1
40°-50°	988.7	15.4
50°-60°	1424.5	22.1
60°-70°	1580.7	24.5
70°-80°	1073.5	16.7
80°-90°	232.5	3.6
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°	6440.8	100.0
0°-180°	6440.8	100.0

Coefficient of Utilization



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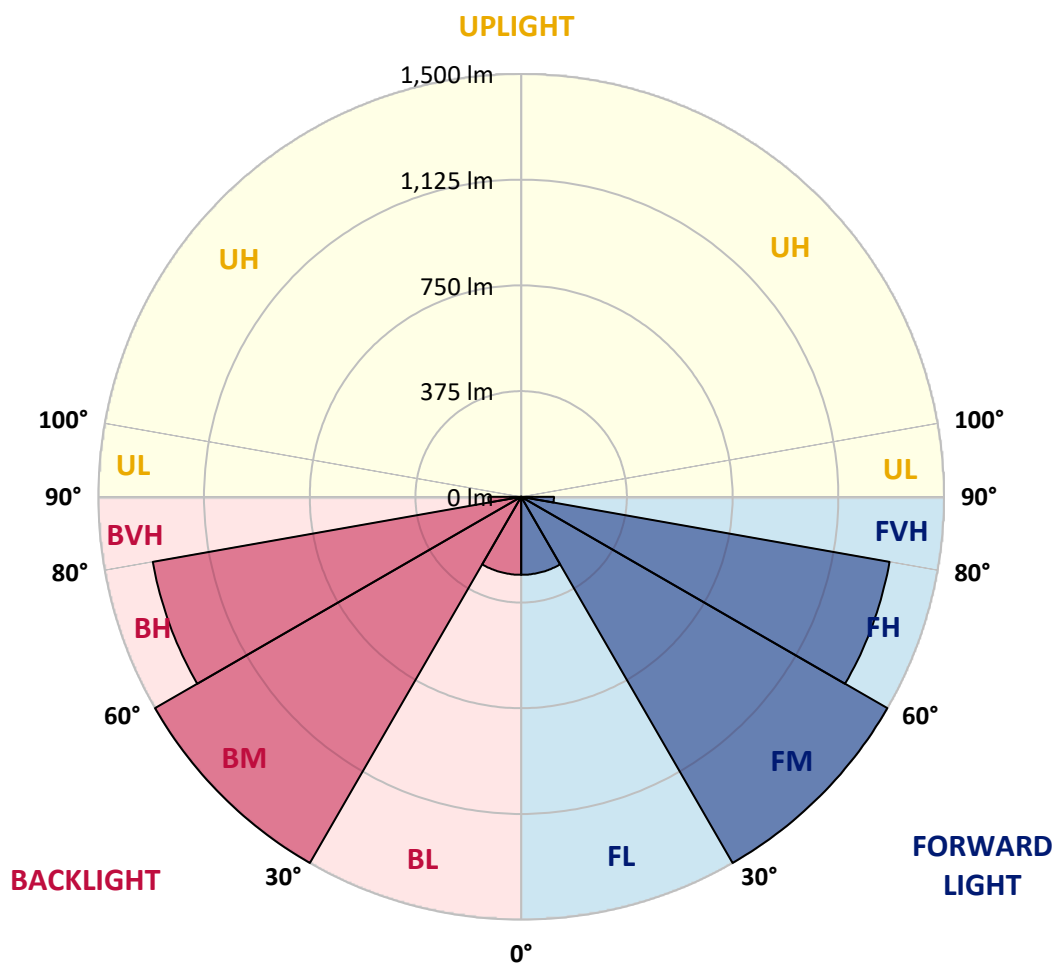
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.8	4.3			
FM	(30°-60°)	1500.3	23.3			
FH	(60°-80°)	1327.1	20.6			G1/1800
FVH	(80°-90°)	116.3	1.8			G2/225
BL	(0°-30°)	276.8	4.3	B1/500		
BM	(30°-60°)	1500.3	23.3	B2/2500		
BH	(60°-80°)	1327.1	20.6	B3/2500		G1/1800
BVH	(80°-90°)	116.3	1.8			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°	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8
2.5°	506.5	506.5	506.5	506.5	506.5	505.2	506.5	505.2	505.2	505.2	505.2
5°	510.4	511.8	511.8	511.8	511.8	513.1	513.1	514.4	514.4	514.4	514.4
7.5°	514.4	514.4	514.4	514.4	514.4	514.4	515.7	515.7	517.0	517.0	518.3
10°	530.0	530.0	531.3	531.3	530.0	530.0	530.0	528.7	528.7	527.4	527.4
12.5°	552.1	552.1	553.4	554.7	554.7	553.4	552.1	549.5	548.2	548.2	548.2
15°	569.0	570.3	573.0	575.6	576.9	576.9	578.2	578.2	578.2	576.9	575.6
17.5°	601.6	601.6	602.9	604.2	604.2	605.5	608.1	610.7	615.9	617.2	613.3
20°	648.5	649.8	653.7	652.4	652.4	655.0	657.6	658.9	662.8	665.4	665.4
22.5°	683.6	686.2	691.4	691.4	690.1	691.4	694.1	694.1	694.1	692.8	695.4
25°	711.0	713.6	717.5	717.5	720.1	726.6	734.4	733.1	729.2	729.2	727.9
27.5°	747.4	748.7	751.3	751.3	755.3	759.2	764.4	769.6	772.2	770.9	768.3
30°	793.0	795.6	798.2	794.3	800.8	804.7	807.3	807.3	817.8	823.0	813.9
32.5°	826.9	832.1	837.3	841.2	854.2	860.7	856.8	860.7	865.9	871.1	871.1
35°	882.9	888.1	892.0	894.6	907.6	916.7	927.1	937.6	936.3	932.3	940.2
37.5°	963.6	968.8	972.7	977.9	994.9	1001.4	1009.2	1031.3	1039.1	1028.7	1033.9
40°	1049.5	1058.7	1071.7	1087.3	1112.0	1119.9	1132.9	1148.5	1162.8	1168.0	1155.0
42.5°	1123.8	1134.2	1136.8	1161.5	1191.5	1214.9	1233.1	1237.1	1250.1	1261.8	1252.7
45°	1203.2	1212.3	1218.8	1239.7	1256.6	1289.1	1319.1	1333.4	1339.9	1338.6	1349.0
47.5°	1277.4	1287.8	1297.0	1319.1	1339.9	1367.3	1386.8	1420.7	1432.4	1416.8	1433.7
50°	1323.0	1336.0	1347.7	1389.4	1425.9	1454.5	1470.1	1498.8	1519.6	1509.2	1513.1
52.5°	1398.5	1403.7	1412.8	1436.3	1484.5	1550.9	1566.5	1582.1	1608.2	1621.2	1597.8
55°	1494.9	1509.2	1522.2	1552.2	1576.9	1626.4	1698.0	1717.6	1716.3	1756.6	1720.2
57.5°	1515.7	1536.6	1562.6	1617.3	1665.5	1694.1	1739.7	1794.4	1799.6	1802.2	1807.4
60°	1518.3	1531.3	1548.3	1593.8	1678.5	1730.6	1756.6	1791.8	1838.7	1804.8	1840.0
61°	1523.5	1537.9	1550.9	1587.3	1661.6	1728.0	1761.8	1781.4	1841.3	1807.4	1836.1
62.5°	1514.4	1531.3	1550.9	1586.0	1635.5	1703.2	1768.3	1768.3	1828.2	1806.1	1821.7
65°	1459.7	1475.4	1513.1	1558.7	1618.6	1653.7	1721.5	1764.4	1755.3	1794.4	1755.3
67.5°	1367.3	1380.3	1412.8	1466.2	1531.3	1580.8	1612.1	1681.1	1672.0	1712.3	1668.1
70°	1237.1	1254.0	1294.4	1330.8	1392.0	1444.1	1485.8	1527.4	1545.7	1541.8	1544.4
72.5°	1080.8	1092.5	1129.0	1169.3	1217.5	1276.1	1313.9	1339.9	1368.6	1367.3	1372.5
75°	899.8	910.2	941.5	971.4	1018.3	1063.9	1106.8	1134.2	1157.6	1156.3	1151.1
77.5°	694.1	705.8	740.9	767.0	789.1	839.9	872.5	890.7	910.2	910.2	912.8
80°	484.4	492.2	519.6	546.9	567.7	592.5	634.2	638.1	660.2	655.0	660.2
82.5°	291.7	296.9	317.7	333.4	347.7	371.1	390.6	398.5	411.5	406.3	414.1
85°	131.5	134.1	147.1	156.3	162.8	175.8	186.2	190.1	196.6	195.3	200.5
87.5°	27.3	29.9	33.9	36.5	37.8	43.0	46.9	46.9	49.5	49.5	50.8
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°	494.8	494.8	494.8	494.8	494.8	494.8	494.8	494.8
2.5°	505.2	506.5	505.2	505.2	505.2	506.5	505.2	506.5
5°	514.4	514.4	514.4	513.1	511.8	511.8	511.8	510.4
7.5°	519.6	519.6	518.3	517.0	515.7	517.0	517.0	517.0
10°	530.0	532.6	533.9	533.9	532.6	532.6	532.6	531.3
12.5°	548.2	549.5	553.4	554.7	556.0	554.7	550.8	549.5
15°	573.0	573.0	574.3	576.9	576.9	571.7	567.7	566.4
17.5°	608.1	606.8	604.2	604.2	605.5	602.9	599.0	599.0
20°	661.5	656.3	653.7	649.8	653.7	653.7	645.9	642.0
22.5°	699.3	694.1	687.5	683.6	688.8	692.8	683.6	678.4
25°	731.8	733.1	722.7	717.5	718.8	721.4	709.7	708.4
27.5°	765.7	768.3	763.1	754.0	751.3	756.6	747.4	744.8
30°	807.3	806.0	808.6	796.9	791.7	795.6	794.3	787.8
32.5°	862.0	855.5	858.1	847.7	837.3	837.3	829.5	821.7
35°	937.6	923.2	916.7	910.2	890.7	892.0	885.5	879.0
37.5°	1036.5	1014.4	996.2	1000.1	971.4	968.8	964.9	955.8
40°	1149.8	1139.4	1118.6	1106.8	1076.9	1062.6	1057.4	1040.4
42.5°	1234.5	1237.1	1205.8	1185.0	1161.5	1136.8	1134.2	1117.3
45°	1325.6	1316.5	1287.8	1254.0	1243.6	1213.6	1209.7	1192.8
47.5°	1416.8	1385.5	1368.6	1333.4	1316.5	1278.7	1281.3	1265.7
50°	1502.7	1466.2	1450.6	1408.9	1382.9	1345.1	1336.0	1310.0
52.5°	1593.8	1560.0	1535.3	1481.9	1444.1	1415.5	1399.8	1389.4
55°	1716.3	1682.4	1626.4	1576.9	1545.7	1498.8	1493.6	1475.4
57.5°	1773.5	1748.8	1687.6	1652.4	1596.5	1548.3	1532.6	1496.2
60°	1780.1	1769.6	1704.5	1670.7	1588.6	1549.6	1530.0	1507.9
61°	1778.8	1765.7	1703.2	1661.6	1583.4	1544.4	1528.7	1509.2
62.5°	1773.5	1757.9	1688.9	1645.9	1573.0	1535.3	1522.2	1493.6
65°	1756.6	1713.6	1653.7	1614.7	1535.3	1501.4	1470.1	1441.5
67.5°	1682.4	1601.7	1576.9	1527.4	1446.7	1408.9	1380.3	1355.6
70°	1523.5	1470.1	1444.1	1382.9	1317.8	1286.5	1254.0	1222.7
72.5°	1337.3	1302.2	1280.0	1205.8	1157.6	1126.4	1096.4	1066.5
75°	1129.0	1102.9	1062.6	1006.6	963.6	932.3	905.0	890.7
77.5°	886.8	869.8	838.6	782.6	759.2	731.8	704.5	682.3
80°	638.1	625.0	600.3	559.9	540.4	513.1	493.5	475.3
82.5°	397.2	386.7	372.4	342.5	334.7	317.7	299.5	286.5
85°	190.1	183.6	178.4	158.9	157.6	143.2	136.7	128.9
87.5°	49.5	48.2	45.6	39.1	37.8	33.9	31.3	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)