

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: P197861

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197861
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-C5-LED-E1-WQ-CG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6401.7 lumens
Efficiency: N/A
Efficacy: 83.1 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): 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

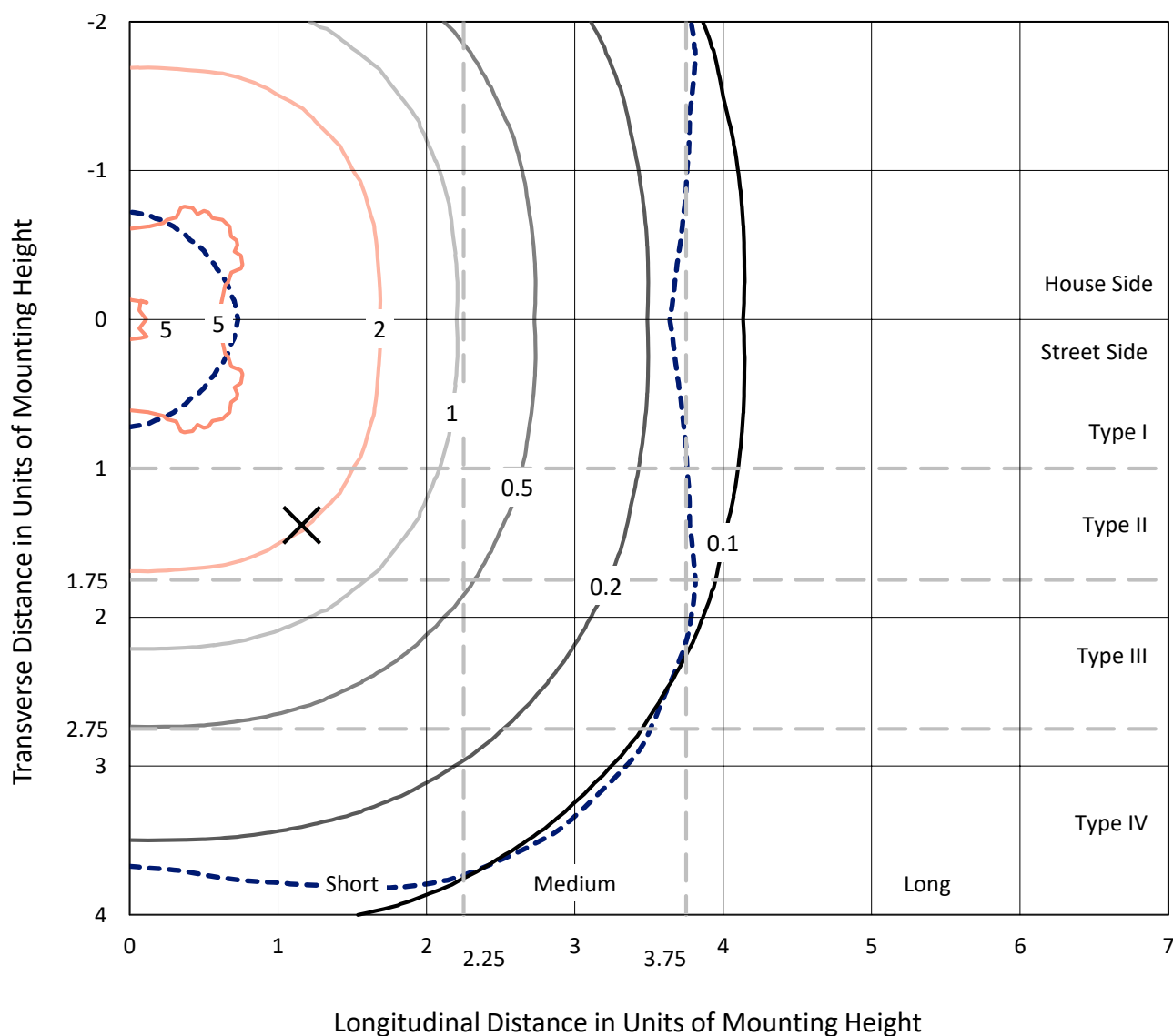


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

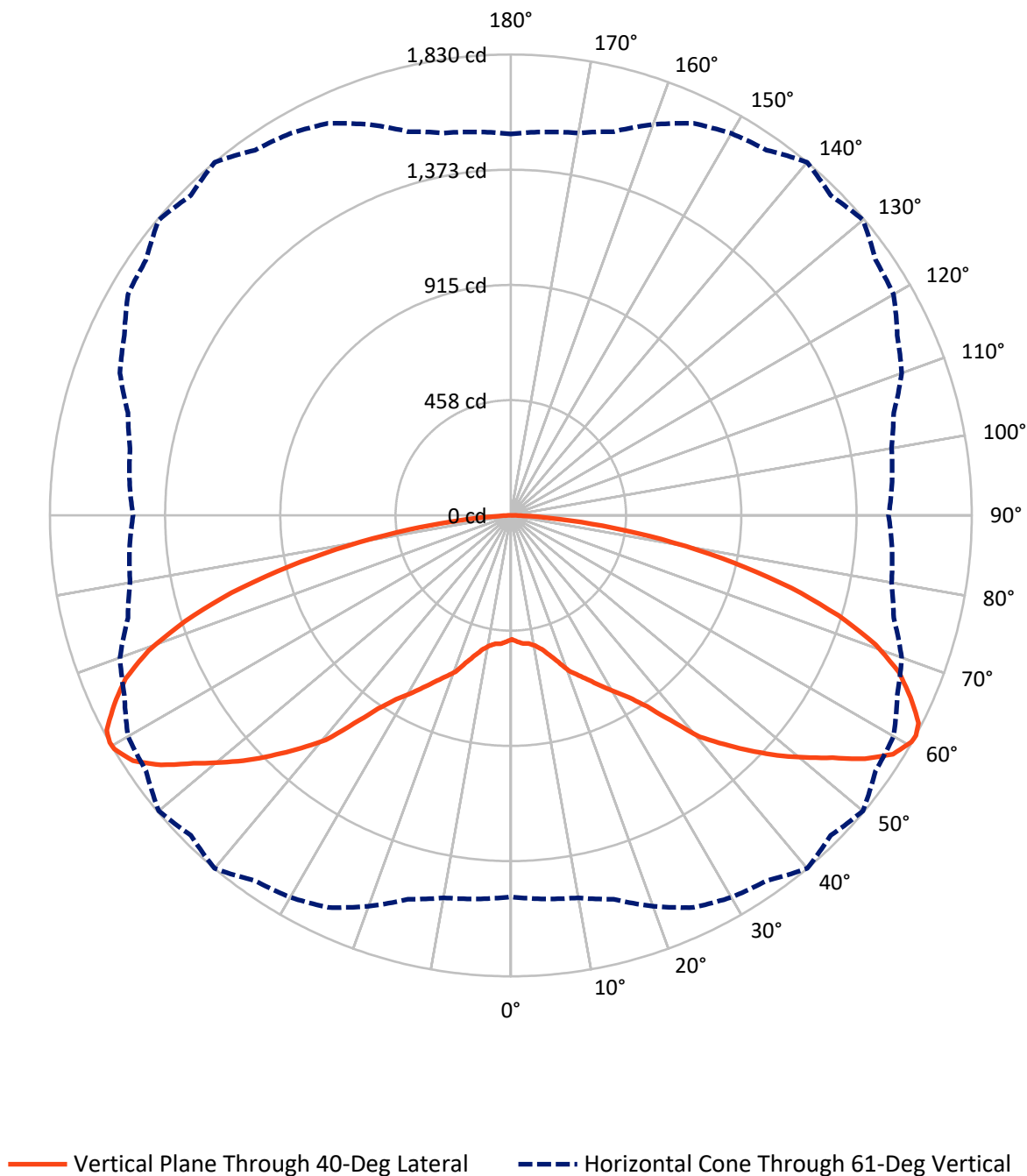


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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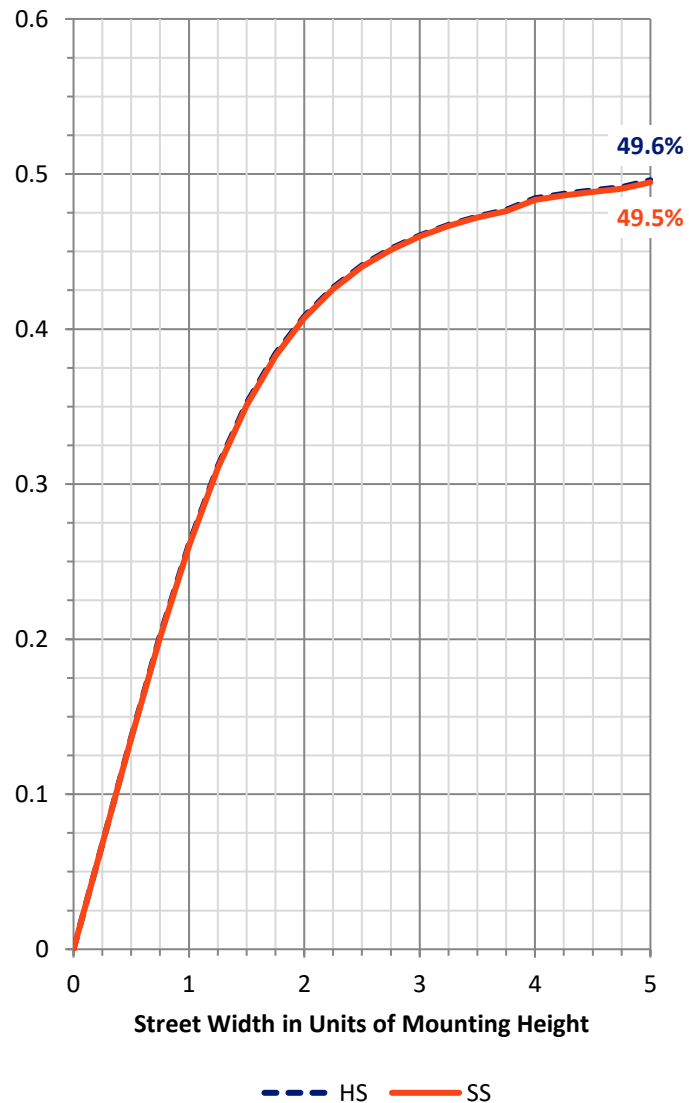
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3200.9	0.0	3200.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3200.9	0.0	3200.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6401.7	0.0	6401.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	0.8
10°-20°	165.5	2.6
20°-30°	335.7	5.2
30°-40°	583.8	9.1
40°-50°	982.8	15.4
50°-60°	1415.8	22.1
60°-70°	1571.1	24.5
70°-80°	1067.0	16.7
80°-90°	231.1	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°	6401.7	100.0
0°-180°	6401.7	100.0

Coefficient of Utilization



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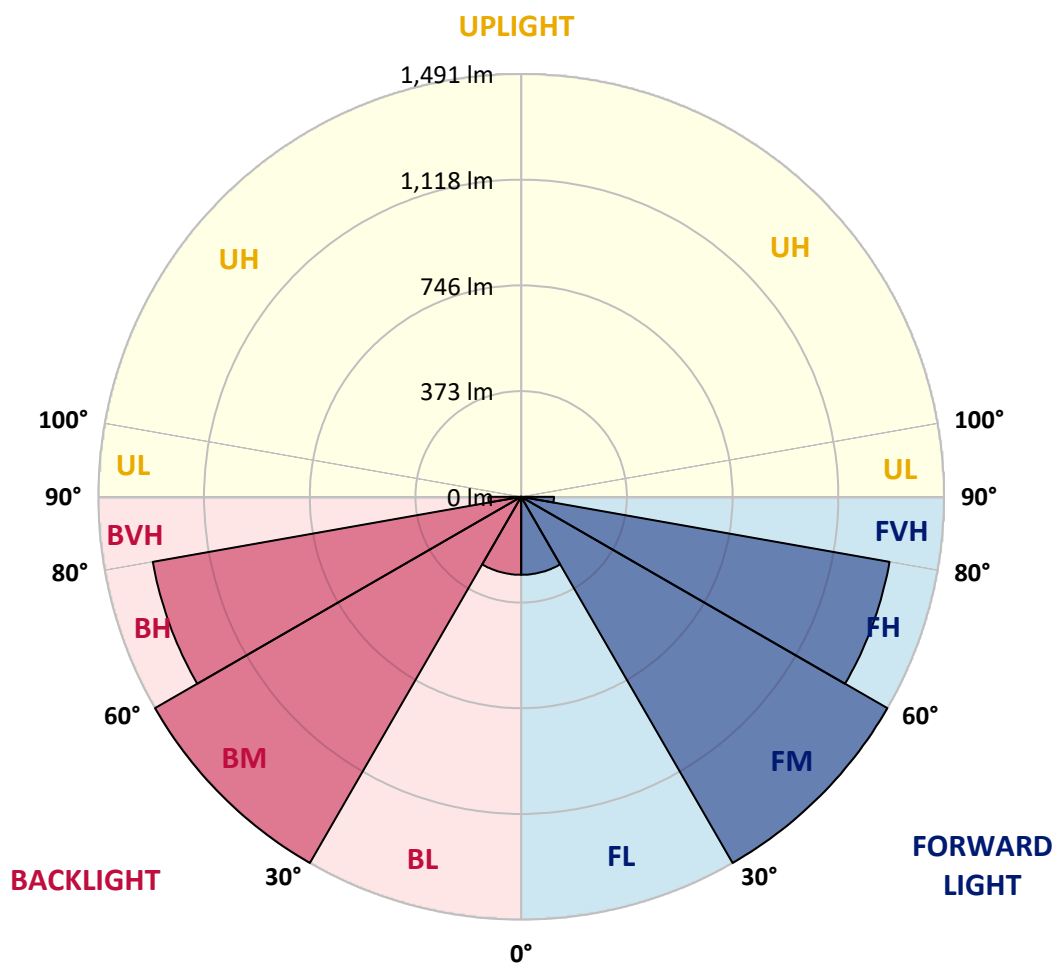
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.1	4.3			
FM	(30°-60°)	1491.2	23.3			
FH	(60°-80°)	1319.0	20.6			G1/1800
FVH	(80°-90°)	115.5	1.8			G2/225
BL	(0°-30°)	275.1	4.3	B1/500		
BM	(30°-60°)	1491.2	23.3	B2/2500		
BH	(60°-80°)	1319.0	20.6	B3/2500		G1/1800
BVH	(80°-90°)	115.5	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°	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8
2.5°	503.5	503.5	503.5	503.5	503.5	502.2	503.5	502.2	502.2	502.2	502.2
5°	507.4	508.6	508.6	508.6	508.6	509.9	509.9	511.2	511.2	511.2	511.2
7.5°	511.2	511.2	511.2	511.2	511.2	511.2	512.5	512.5	513.8	513.8	515.1
10°	526.8	526.8	528.1	528.1	526.8	526.8	526.8	525.5	525.5	524.2	524.2
12.5°	548.8	548.8	550.1	551.4	551.4	550.1	548.8	546.2	544.9	544.9	544.9
15°	565.6	566.9	569.5	572.1	573.4	573.4	574.7	574.7	574.7	573.4	572.1
17.5°	598.0	598.0	599.2	600.5	600.5	601.8	604.4	607.0	612.2	613.5	609.6
20°	644.5	645.8	649.7	648.4	648.4	651.0	653.6	654.9	658.8	661.4	661.4
22.5°	679.5	682.1	687.3	687.3	686.0	687.3	689.8	689.8	689.8	688.5	691.1
25°	706.7	709.3	713.1	713.1	715.7	722.2	730.0	728.7	724.8	724.8	723.5
27.5°	742.9	744.2	746.8	746.8	750.7	754.6	759.7	764.9	767.5	766.2	763.6
30°	788.2	790.8	793.4	789.5	796.0	799.9	802.4	802.4	812.8	818.0	808.9
32.5°	821.9	827.0	832.2	836.1	849.0	855.5	851.6	855.5	860.7	865.9	865.9
35°	877.5	882.7	886.6	889.2	902.1	911.2	921.5	931.9	930.6	926.7	934.5
37.5°	957.8	962.9	966.8	972.0	988.8	995.3	1003.1	1025.1	1032.8	1022.5	1027.6
40°	1043.2	1052.2	1065.2	1080.7	1105.3	1113.1	1126.0	1141.5	1155.8	1161.0	1148.0
42.5°	1117.0	1127.3	1129.9	1154.5	1184.3	1207.5	1225.7	1229.6	1242.5	1254.1	1245.1
45°	1195.9	1205.0	1211.4	1232.1	1249.0	1281.3	1311.1	1325.3	1331.8	1330.5	1340.9
47.5°	1269.7	1280.0	1289.1	1311.1	1331.8	1359.0	1378.4	1412.0	1423.7	1408.2	1425.0
50°	1315.0	1327.9	1339.6	1381.0	1417.2	1445.7	1461.2	1489.7	1510.4	1500.1	1503.9
52.5°	1390.0	1395.2	1404.3	1427.6	1475.5	1541.5	1557.0	1572.5	1598.4	1611.4	1588.1
55°	1485.8	1500.1	1513.0	1542.8	1567.4	1616.5	1687.7	1707.1	1705.8	1746.0	1709.7
57.5°	1506.5	1527.2	1553.1	1607.5	1655.4	1683.8	1729.1	1783.5	1788.7	1791.3	1796.4
60°	1509.1	1522.1	1538.9	1584.2	1668.3	1720.1	1746.0	1780.9	1827.5	1793.9	1828.8
61°	1514.3	1528.5	1541.5	1577.7	1651.5	1717.5	1751.1	1770.6	1830.1	1796.4	1824.9
62.5°	1505.2	1522.1	1541.5	1576.4	1625.6	1692.9	1757.6	1757.6	1817.1	1795.1	1810.7
65°	1450.9	1466.4	1503.9	1549.2	1608.8	1643.7	1711.0	1753.7	1744.7	1783.5	1744.7
67.5°	1359.0	1371.9	1404.3	1457.3	1522.1	1571.2	1602.3	1670.9	1661.8	1702.0	1658.0
70°	1229.6	1246.4	1286.5	1322.7	1383.6	1435.3	1476.8	1518.2	1536.3	1532.4	1535.0
72.5°	1074.2	1085.9	1122.1	1162.3	1210.1	1268.4	1305.9	1331.8	1360.3	1359.0	1364.2
75°	894.3	904.7	935.8	965.5	1012.1	1057.4	1100.1	1127.3	1150.6	1149.3	1144.1
77.5°	689.8	701.5	736.4	762.3	784.3	834.8	867.2	885.3	904.7	904.7	907.3
80°	481.5	489.2	516.4	543.6	564.3	588.9	630.3	634.2	656.2	651.0	656.2
82.5°	289.9	295.1	315.8	331.3	345.6	368.9	388.3	396.0	409.0	403.8	411.6
85°	130.7	133.3	146.3	155.3	161.8	174.7	185.1	189.0	195.4	194.1	199.3
87.5°	27.2	29.8	33.7	36.2	37.5	42.7	46.6	46.6	49.2	49.2	50.5
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°	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8
2.5°	502.2	503.5	502.2	502.2	502.2	503.5	502.2	503.5
5°	511.2	511.2	511.2	509.9	508.6	508.6	508.6	507.4
7.5°	516.4	516.4	515.1	513.8	512.5	513.8	513.8	513.8
10°	526.8	529.4	530.6	530.6	529.4	529.4	529.4	528.1
12.5°	544.9	546.2	550.1	551.4	552.7	551.4	547.5	546.2
15°	569.5	569.5	570.8	573.4	573.4	568.2	564.3	563.0
17.5°	604.4	603.1	600.5	600.5	601.8	599.2	595.4	595.4
20°	657.5	652.3	649.7	645.8	649.7	649.7	642.0	638.1
22.5°	695.0	689.8	683.4	679.5	684.7	688.5	679.5	674.3
25°	727.4	728.7	718.3	713.1	714.4	717.0	705.4	704.1
27.5°	761.0	763.6	758.4	749.4	746.8	752.0	742.9	740.3
30°	802.4	801.2	803.7	792.1	786.9	790.8	789.5	783.0
32.5°	856.8	850.3	852.9	842.6	832.2	832.2	824.4	816.7
35°	931.9	917.6	911.2	904.7	885.3	886.6	880.1	873.6
37.5°	1030.2	1008.2	990.1	994.0	965.5	962.9	959.1	950.0
40°	1142.8	1132.5	1111.8	1100.1	1070.4	1056.1	1050.9	1034.1
42.5°	1227.0	1229.6	1198.5	1177.8	1154.5	1129.9	1127.3	1110.5
45°	1317.6	1308.5	1280.0	1246.4	1236.0	1206.3	1202.4	1185.5
47.5°	1408.2	1377.1	1360.3	1325.3	1308.5	1271.0	1273.6	1258.0
50°	1493.6	1457.3	1441.8	1400.4	1374.5	1337.0	1327.9	1302.0
52.5°	1584.2	1550.5	1525.9	1472.9	1435.3	1406.9	1391.3	1381.0
55°	1705.8	1672.2	1616.5	1567.4	1536.3	1489.7	1484.5	1466.4
57.5°	1762.8	1738.2	1677.4	1642.4	1586.8	1538.9	1523.4	1487.1
60°	1769.3	1758.9	1694.2	1660.5	1579.0	1540.2	1520.8	1498.8
61°	1768.0	1755.0	1692.9	1651.5	1573.8	1535.0	1519.5	1500.1
62.5°	1762.8	1747.3	1678.7	1636.0	1563.5	1525.9	1513.0	1484.5
65°	1746.0	1703.3	1643.7	1604.9	1525.9	1492.3	1461.2	1432.8
67.5°	1672.2	1591.9	1567.4	1518.2	1437.9	1400.4	1371.9	1347.3
70°	1514.3	1461.2	1435.3	1374.5	1309.8	1278.7	1246.4	1215.3
72.5°	1329.2	1294.3	1272.3	1198.5	1150.6	1119.5	1089.8	1060.0
75°	1122.1	1096.2	1056.1	1000.5	957.8	926.7	899.5	885.3
77.5°	881.4	864.6	833.5	777.9	754.6	727.4	700.2	678.2
80°	634.2	621.2	596.7	556.5	537.1	509.9	490.5	472.4
82.5°	394.8	384.4	370.2	340.4	332.6	315.8	297.7	284.7
85°	189.0	182.5	177.3	157.9	156.6	142.4	135.9	128.1
87.5°	49.2	47.9	45.3	38.8	37.5	33.7	31.1	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)