

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: P197741

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6111.8 lumens
Efficiency: N/A
Efficacy: 79.4 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

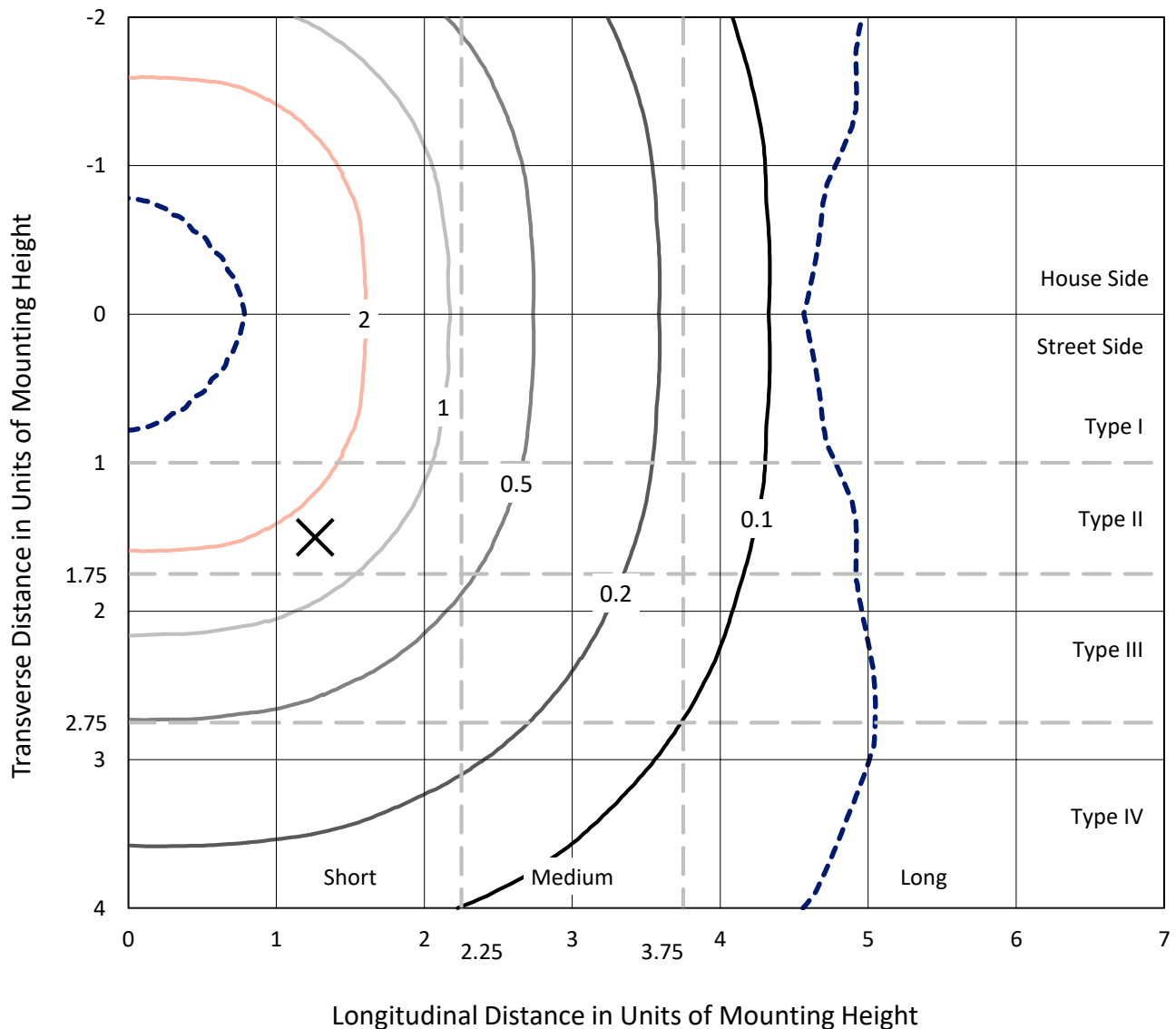


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

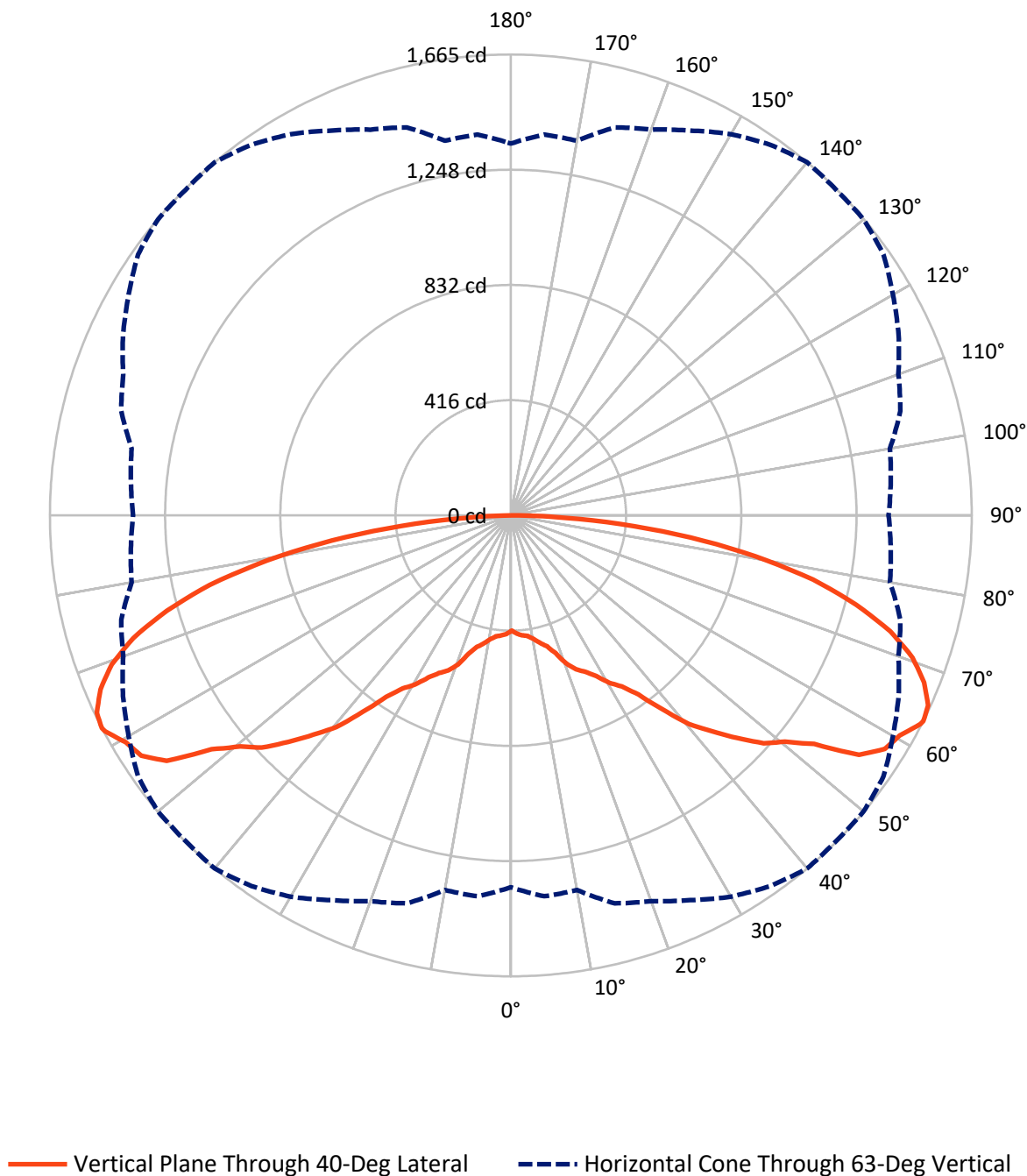


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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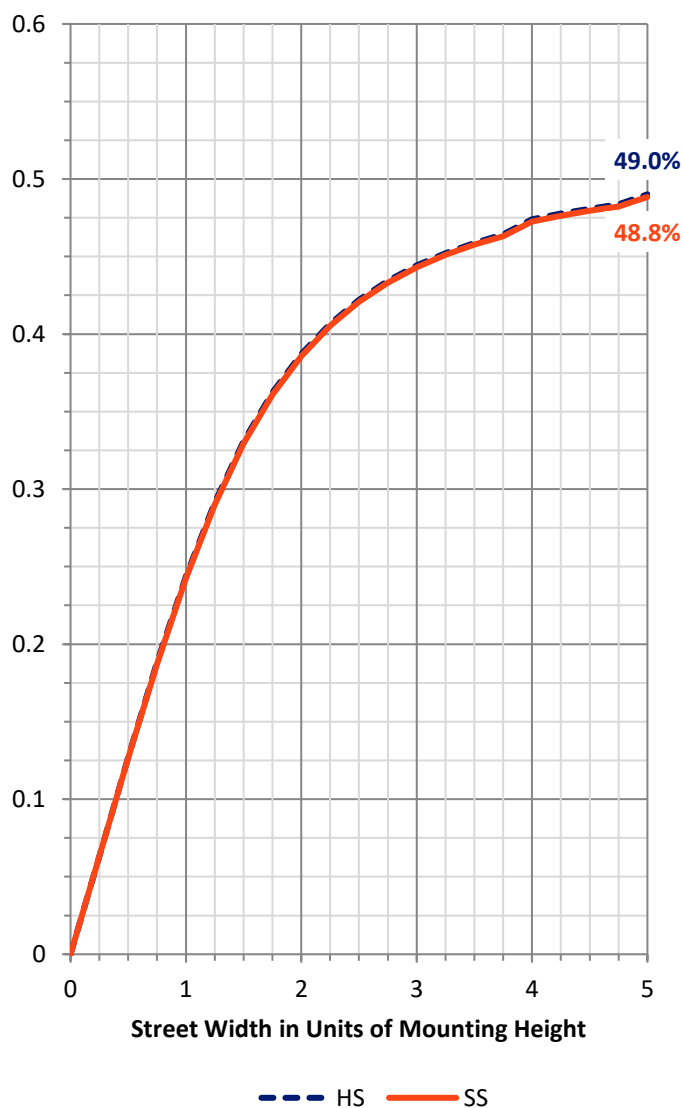
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3055.9	0.0	3055.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3055.9	0.0	3055.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6111.8	0.0	6111.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	0.7
10°-20°	142.8	2.3
20°-30°	290.3	4.7
30°-40°	500.3	8.2
40°-50°	842.8	13.8
50°-60°	1241.0	20.3
60°-70°	1475.8	24.1
70°-80°	1194.7	19.5
80°-90°	382.2	6.3
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°	6111.8	100.0
0°-180°	6111.8	100.0

Coefficient of Utilization



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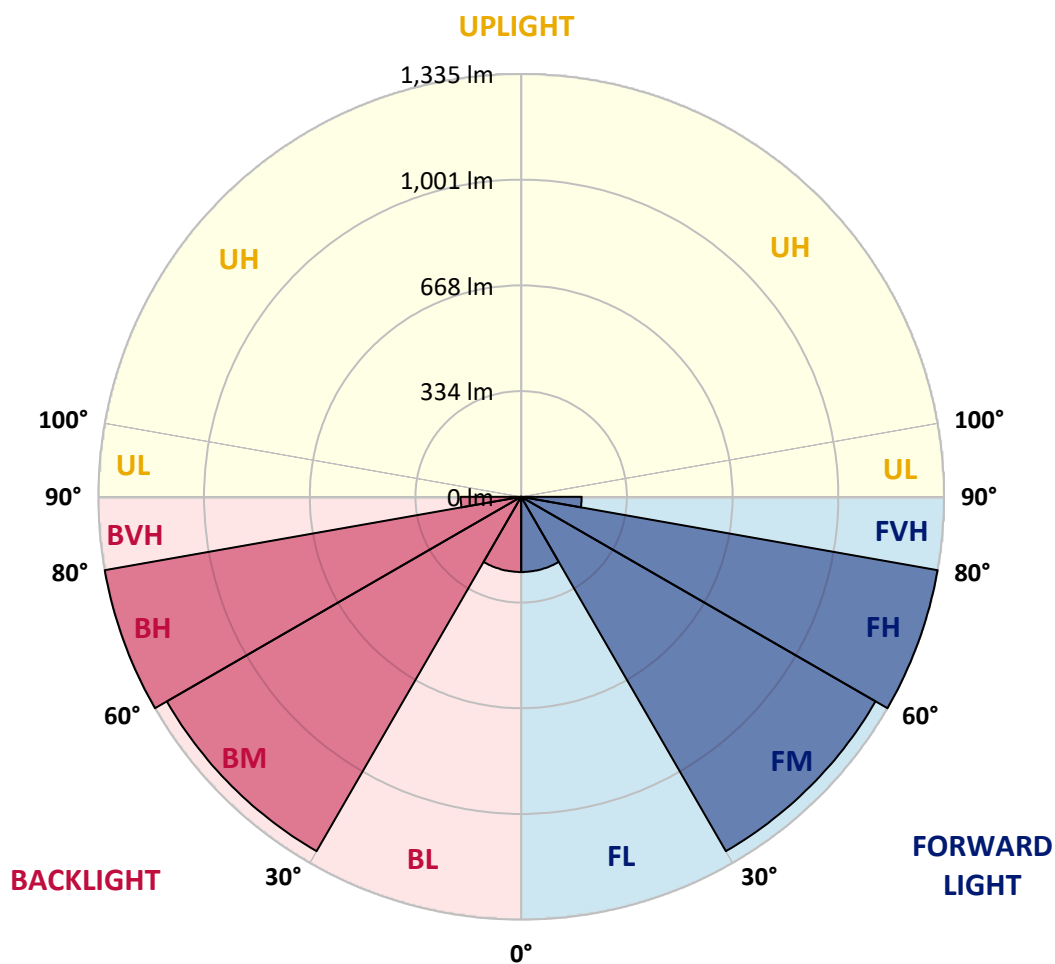
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.5	3.9			
FM	(30°-60°)	1292.0	21.1			
FH	(60°-80°)	1335.2	21.8			G1/1800
FVH	(80°-90°)	191.1	3.1			G2/225
BL	(0°-30°)	237.5	3.9	B1/500		
BM	(30°-60°)	1292.0	21.1	B2/2500		
BH	(60°-80°)	1335.2	21.8	B3/2500		G1/1800
BVH	(80°-90°)	191.1	3.1			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°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	429.2	429.2	429.2	429.2	429.2	429.2	427.9	429.2	427.9	427.9	427.9
5°	437.5	437.5	437.5	437.5	436.2	436.2	435.0	435.0	435.0	433.8	435.0
7.5°	441.0	441.0	441.0	441.0	439.8	439.8	439.8	439.8	439.8	439.8	439.8
10°	449.2	449.2	450.4	451.6	453.9	453.9	453.9	455.2	453.9	453.9	453.9
12.5°	467.0	465.8	468.1	470.5	472.9	474.1	474.1	474.1	472.9	472.9	474.1
15°	491.8	489.4	490.7	491.8	493.0	494.2	494.2	493.0	490.7	490.7	490.7
17.5°	523.7	520.2	519.0	517.8	517.8	520.2	522.5	521.3	522.5	521.3	522.5
20°	561.6	559.1	559.1	559.1	560.3	565.1	569.9	572.2	571.0	568.6	572.2
22.5°	586.3	587.6	593.4	592.3	591.1	595.9	601.7	606.5	604.0	600.5	602.9
25°	613.6	613.6	621.8	625.4	621.8	621.8	624.2	627.7	625.4	623.1	625.4
27.5°	644.3	644.3	647.8	651.4	649.1	649.1	652.6	658.5	657.2	656.1	657.2
30°	680.9	676.3	672.6	678.6	684.5	685.7	689.2	698.6	701.0	699.8	702.3
32.5°	715.2	708.1	710.6	714.0	727.0	731.8	730.6	737.7	736.4	732.9	737.7
35°	748.3	756.6	761.3	768.4	773.2	779.0	779.0	792.1	794.4	790.9	794.4
37.5°	812.2	815.6	828.7	829.9	835.8	858.2	860.7	878.4	887.9	883.1	884.2
40°	899.6	898.5	907.9	922.0	933.9	962.3	970.6	982.3	990.6	987.1	991.8
42.5°	970.6	961.1	968.2	998.9	1012.0	1033.2	1043.8	1049.8	1065.2	1060.4	1066.3
45°	1021.4	1024.9	1034.4	1065.2	1073.5	1091.2	1115.9	1126.7	1146.7	1140.8	1144.4
47.5°	1071.0	1087.6	1095.9	1110.1	1136.1	1159.7	1190.5	1201.1	1229.4	1227.1	1223.6
50°	1136.1	1149.0	1158.5	1169.1	1204.7	1243.7	1269.7	1274.3	1283.8	1276.8	1288.6
52.5°	1205.9	1204.7	1212.9	1242.5	1292.1	1307.5	1330.0	1351.2	1371.3	1378.4	1371.3
55°	1298.0	1268.5	1302.8	1345.3	1366.6	1403.2	1457.6	1487.2	1526.2	1532.2	1520.2
57.5°	1335.8	1335.8	1371.3	1396.1	1435.2	1500.2	1558.2	1572.3	1592.3	1581.7	1593.6
60°	1331.2	1376.1	1376.1	1419.8	1483.6	1541.6	1562.8	1586.5	1613.7	1612.5	1612.5
62.5°	1337.1	1380.7	1368.9	1444.7	1483.6	1530.9	1578.2	1622.0	1659.8	1658.6	1657.4
63°	1342.9	1380.7	1373.7	1450.5	1482.5	1533.3	1590.0	1633.8	1664.6	1662.1	1663.3
65°	1360.7	1350.0	1392.6	1441.0	1477.7	1553.4	1600.6	1634.9	1656.3	1655.1	1655.1
67.5°	1327.5	1302.8	1363.0	1382.0	1451.8	1519.1	1555.7	1594.8	1610.1	1610.1	1607.7
70°	1225.9	1236.5	1278.0	1308.6	1379.6	1439.9	1470.7	1520.2	1539.1	1539.1	1538.0
72.5°	1123.0	1140.8	1169.1	1212.9	1280.3	1327.5	1364.3	1409.2	1433.9	1432.8	1432.8
75°	991.8	1008.4	1041.5	1082.9	1141.9	1188.1	1217.6	1260.2	1288.6	1299.2	1287.4
77.5°	844.1	848.8	879.6	922.0	974.1	1006.0	1050.9	1092.4	1115.9	1114.8	1111.3
80°	664.3	670.3	696.3	744.7	773.2	811.0	852.4	874.8	894.9	894.9	892.5
82.5°	458.7	471.6	497.6	529.6	559.1	592.3	614.8	637.2	653.7	652.6	649.1
85°	258.9	264.8	289.7	309.7	332.2	353.5	368.9	383.0	397.2	397.2	394.9
87.5°	78.0	69.8	84.0	92.2	104.1	114.7	121.8	135.9	145.3	134.7	134.7
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°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	429.2	429.2	429.2	429.2	429.2	429.2	429.2	429.2
5°	435.0	436.2	436.2	437.5	437.5	437.5	437.5	437.5
7.5°	439.8	439.8	439.8	439.8	441.0	441.0	441.0	441.0
10°	453.9	455.2	453.9	453.9	451.6	450.4	450.4	450.4
12.5°	474.1	475.3	475.3	472.9	470.5	468.1	467.0	465.8
15°	493.0	496.5	494.2	493.0	490.7	491.8	491.8	493.0
17.5°	522.5	523.7	520.2	517.8	516.7	519.0	521.3	522.5
20°	573.4	571.0	563.9	561.6	559.1	559.1	561.6	561.6
22.5°	605.3	599.4	594.6	592.3	592.3	592.3	588.8	584.0
25°	627.7	624.2	620.6	623.1	625.4	621.8	613.6	612.3
27.5°	658.5	651.4	650.2	649.1	650.2	647.8	646.6	642.0
30°	698.6	689.2	686.9	684.5	677.4	675.0	677.4	680.9
32.5°	736.4	730.6	732.9	728.3	715.2	710.6	712.9	711.7
35°	790.9	780.2	780.2	770.7	767.2	766.1	756.6	748.3
37.5°	877.1	863.0	859.4	838.2	828.7	831.0	818.1	808.7
40°	982.3	971.7	962.3	938.6	925.7	909.1	900.8	900.8
42.5°	1052.1	1045.0	1032.0	1015.5	1001.2	972.9	962.3	968.2
45°	1129.0	1119.5	1092.4	1075.8	1062.7	1042.7	1030.9	1019.0
47.5°	1207.0	1194.0	1162.1	1140.8	1110.1	1104.1	1091.2	1074.6
50°	1275.6	1270.8	1248.3	1212.9	1173.9	1164.5	1152.7	1137.3
52.5°	1359.5	1331.2	1312.3	1296.9	1253.1	1222.4	1205.9	1212.9
55°	1496.7	1461.2	1412.7	1364.3	1354.8	1318.1	1276.8	1299.2
57.5°	1575.9	1555.7	1519.1	1442.2	1404.4	1379.6	1352.4	1332.3
60°	1594.8	1558.2	1549.9	1491.9	1431.6	1379.6	1390.3	1342.9
62.5°	1631.4	1581.7	1535.6	1489.6	1452.9	1382.0	1379.6	1354.8
63°	1643.2	1593.6	1545.1	1489.6	1456.4	1390.3	1377.2	1364.3
65°	1640.9	1598.3	1561.7	1489.6	1439.9	1413.9	1350.0	1379.6
67.5°	1596.0	1560.5	1517.9	1468.2	1385.5	1365.5	1320.5	1326.4
70°	1523.9	1477.7	1437.5	1391.5	1325.2	1279.1	1251.9	1229.4
72.5°	1411.5	1370.1	1327.5	1285.1	1225.9	1170.4	1151.4	1126.7
75°	1262.6	1222.4	1183.3	1143.2	1087.6	1038.0	1017.8	1000.1
77.5°	1092.4	1058.1	1002.5	964.6	932.8	879.6	860.7	841.7
80°	871.3	854.7	814.5	764.9	748.3	696.3	682.1	657.2
82.5°	633.7	617.1	585.1	550.8	530.8	503.6	479.9	463.5
85°	386.6	368.9	352.3	321.5	309.7	289.7	270.8	261.3
87.5°	139.5	125.3	112.3	98.1	91.0	76.9	74.4	67.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)