

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: P197740

Luminaire Tested: **TT-C4-LED-E1-WQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197740
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-C4-LED-E1-WQ-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6149.1 lumens
Efficiency: N/A
Efficacy: 106.0 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



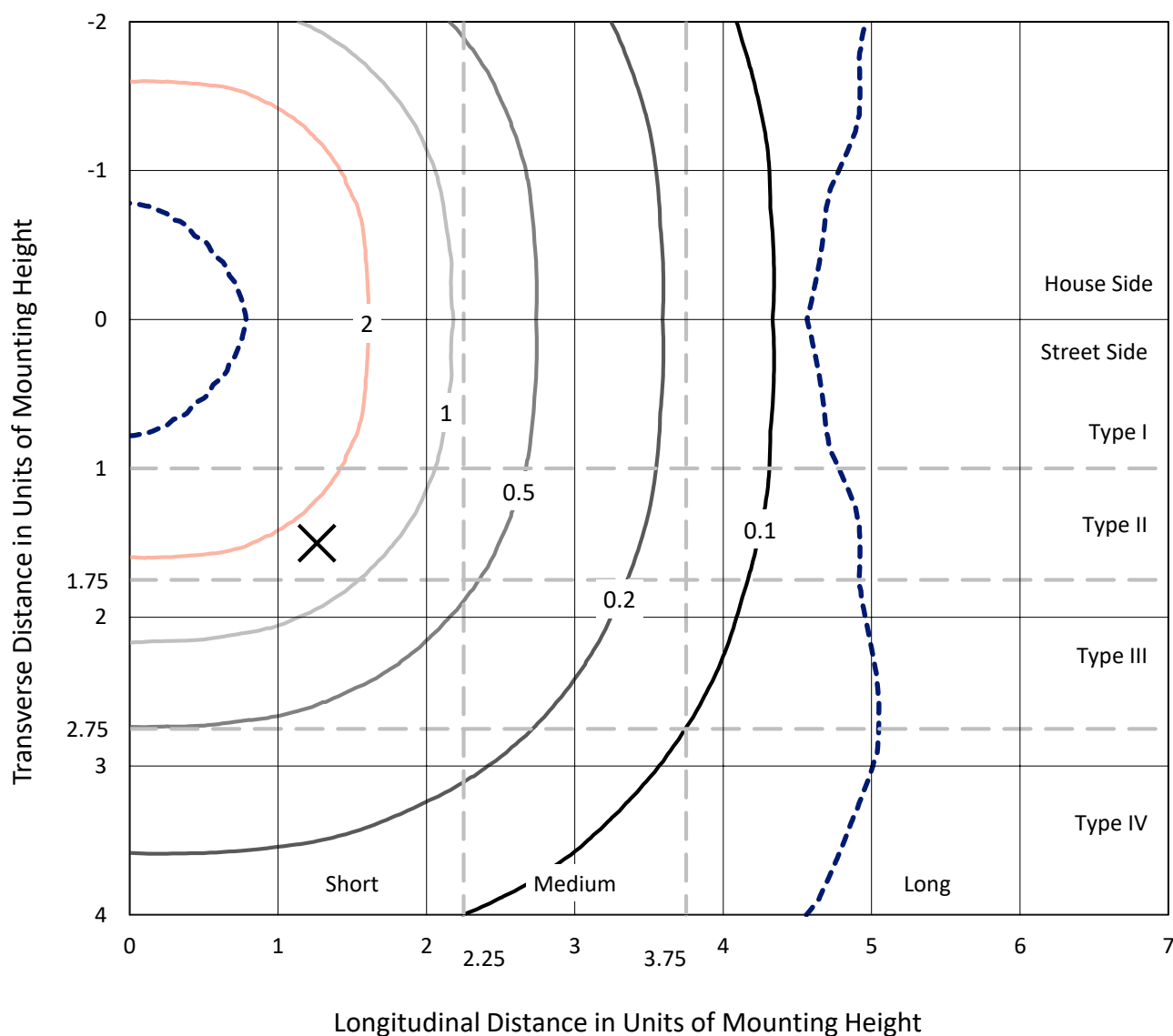
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

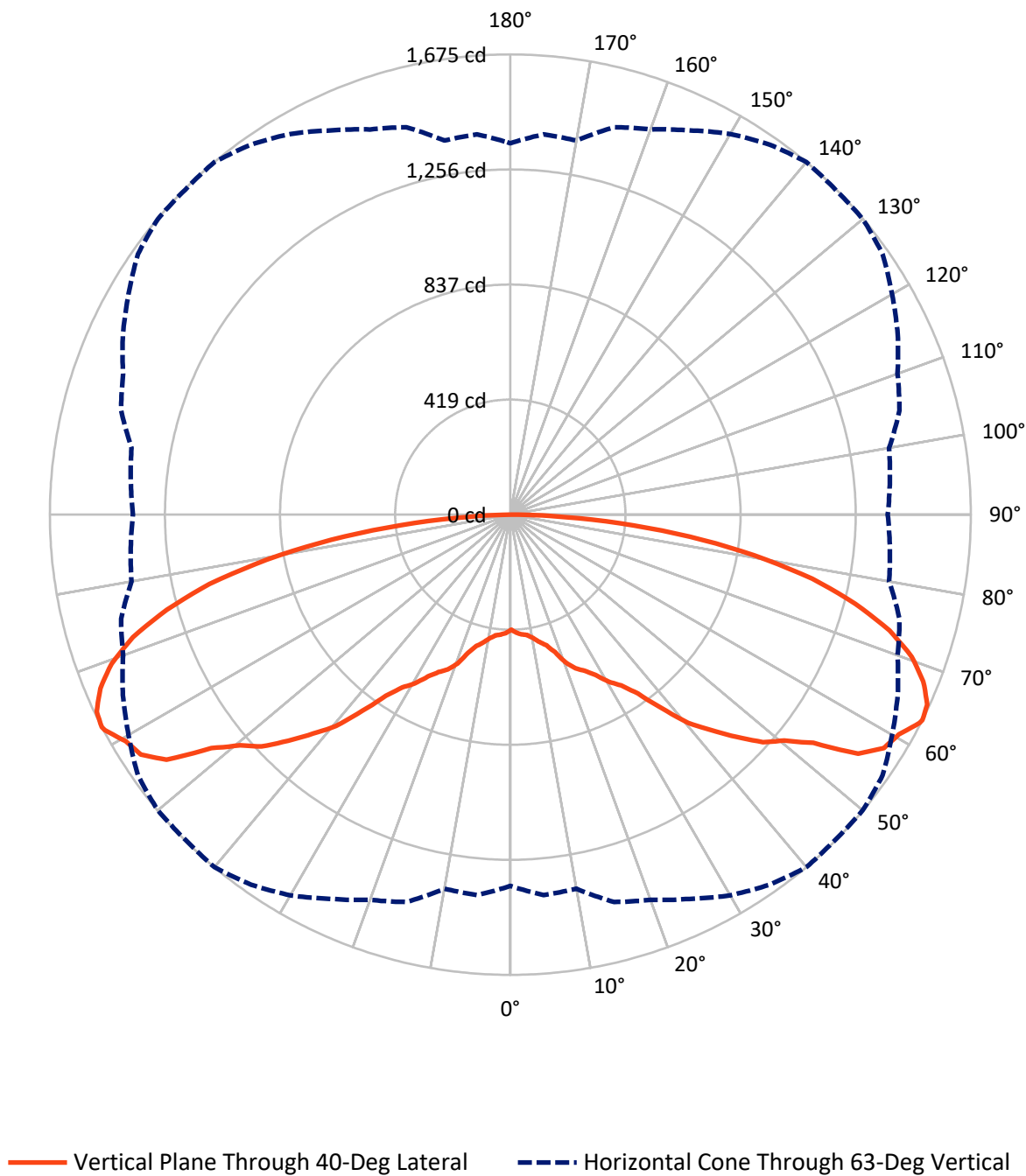


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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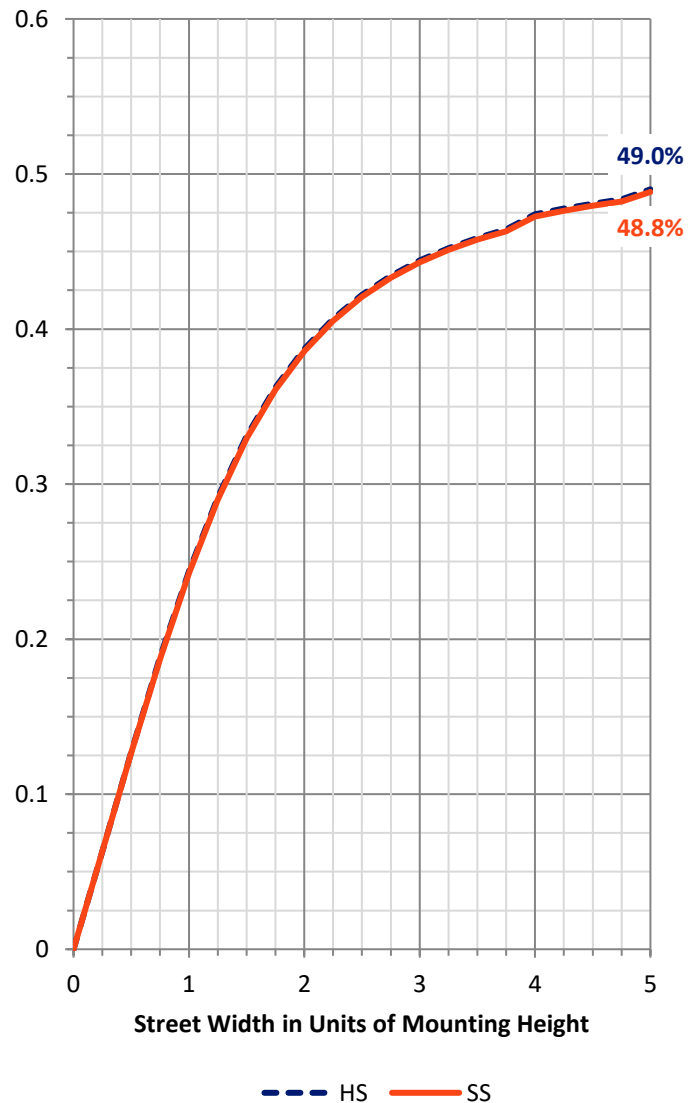
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3074.6	0.0	3074.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3074.6	0.0	3074.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6149.1	0.0	6149.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	0.7
10°-20°	143.7	2.3
20°-30°	292.1	4.7
30°-40°	503.4	8.2
40°-50°	847.9	13.8
50°-60°	1248.6	20.3
60°-70°	1484.8	24.1
70°-80°	1202.0	19.5
80°-90°	384.6	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°	6149.1	100.0
0°-180°	6149.1	100.0

Coefficient of Utilization



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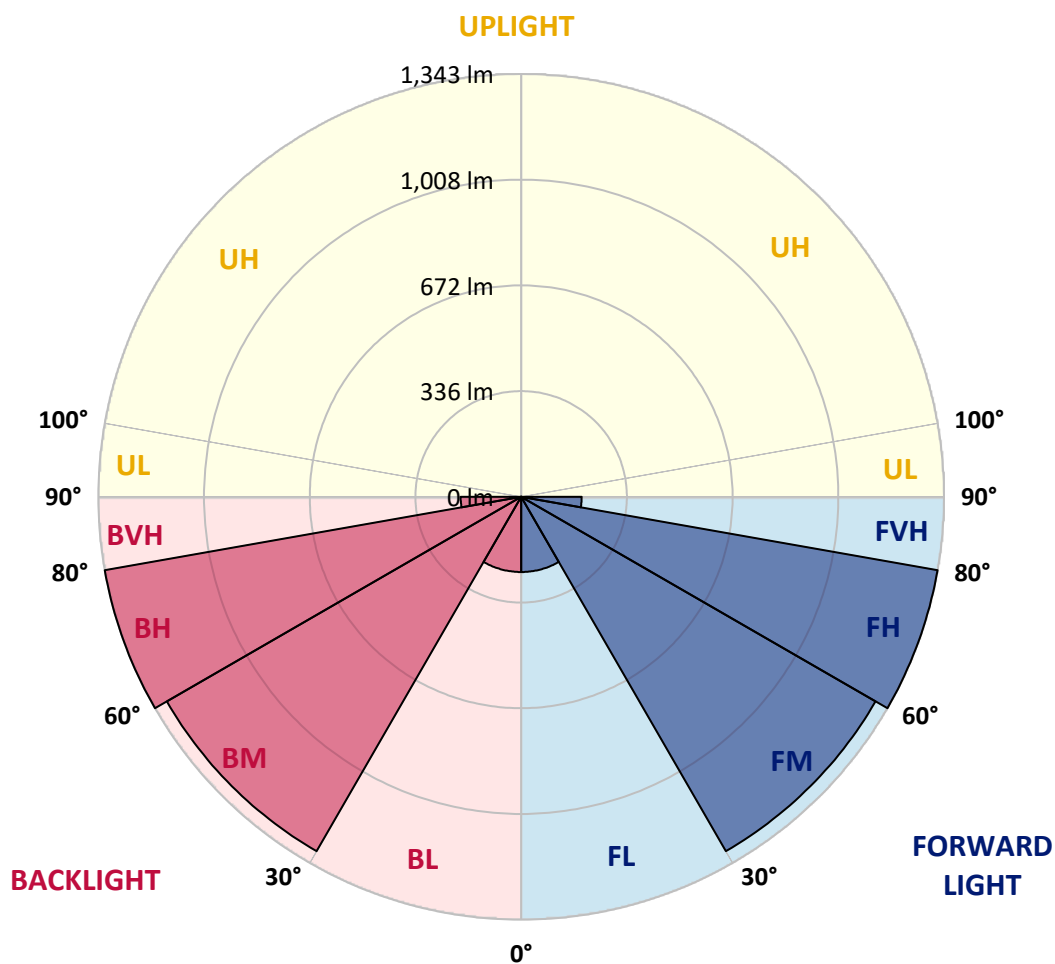
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.0	3.9			
FM	(30°-60°)	1299.9	21.1			
FH	(60°-80°)	1343.4	21.8			G1/1800
FVH	(80°-90°)	192.3	3.1			G2/225
BL	(0°-30°)	239.0	3.9	B1/500		
BM	(30°-60°)	1299.9	21.1	B2/2500		
BH	(60°-80°)	1343.4	21.8	B3/2500		G1/1800
BVH	(80°-90°)	192.3	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°	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6
2.5°	431.8	431.8	431.8	431.8	431.8	431.8	430.5	431.8	430.5	430.5	430.5
5°	440.1	440.1	440.1	440.1	438.8	438.8	437.7	437.7	437.7	436.5	437.7
7.5°	443.6	443.6	443.6	443.6	442.5	442.5	442.5	442.5	442.5	442.5	442.5
10°	452.0	452.0	453.2	454.3	456.7	456.7	456.7	458.0	456.7	456.7	456.7
12.5°	469.8	468.6	471.0	473.3	475.8	477.0	477.0	477.0	475.8	475.8	477.0
15°	494.8	492.3	493.7	494.8	496.0	497.2	497.2	496.0	493.7	493.7	493.7
17.5°	526.9	523.3	522.2	521.0	521.0	523.3	525.7	524.5	525.7	524.5	525.7
20°	565.0	562.5	562.5	562.5	563.7	568.5	573.3	575.7	574.5	572.0	575.7
22.5°	589.9	591.2	597.0	595.9	594.7	599.5	605.4	610.2	607.7	604.2	606.5
25°	617.4	617.4	625.6	629.2	625.6	625.6	628.0	631.6	629.2	626.9	629.2
27.5°	648.2	648.2	651.7	655.4	653.0	653.0	656.6	662.5	661.2	660.1	661.2
30°	685.1	680.4	676.7	682.7	688.7	689.9	693.4	702.9	705.3	704.1	706.6
32.5°	719.6	712.4	714.9	718.4	731.4	736.2	735.1	742.2	740.9	737.4	742.2
35°	752.9	761.2	765.9	773.1	777.9	783.8	783.8	796.9	799.3	795.8	799.3
37.5°	817.1	820.6	833.8	834.9	840.9	863.5	865.9	883.8	893.3	888.5	889.6
40°	905.1	904.0	913.5	927.7	939.6	968.2	976.5	988.3	996.7	993.2	997.8
42.5°	976.5	967.0	974.2	1005.0	1018.2	1039.5	1050.2	1056.2	1071.7	1066.9	1072.9
45°	1027.7	1031.2	1040.7	1071.7	1080.0	1097.9	1122.7	1133.5	1153.7	1147.7	1151.4
47.5°	1077.5	1094.2	1102.5	1116.9	1143.0	1166.7	1197.7	1208.4	1236.9	1234.6	1231.1
50°	1143.0	1156.1	1165.6	1176.2	1212.1	1251.3	1277.4	1282.1	1291.6	1284.6	1296.4
52.5°	1213.2	1212.1	1220.3	1250.1	1300.0	1315.4	1338.1	1359.5	1379.6	1386.8	1379.6
55°	1305.9	1276.3	1310.8	1353.5	1375.0	1411.8	1466.5	1496.3	1535.5	1541.5	1529.5
57.5°	1344.0	1344.0	1379.6	1404.6	1444.0	1509.3	1567.7	1581.9	1602.1	1591.4	1603.4
60°	1339.3	1384.5	1384.5	1428.5	1492.7	1551.0	1572.4	1596.2	1623.5	1622.4	1622.4
62.5°	1345.3	1389.2	1377.3	1453.5	1492.7	1540.2	1587.9	1631.9	1669.9	1668.7	1667.6
63°	1351.1	1389.2	1382.1	1459.3	1491.5	1542.7	1599.7	1643.7	1674.7	1672.2	1673.4
65°	1369.0	1358.3	1401.1	1449.8	1486.7	1562.9	1610.4	1644.9	1666.4	1665.2	1665.2
67.5°	1335.6	1310.8	1371.3	1390.5	1460.6	1528.4	1565.2	1604.5	1619.9	1619.9	1617.6
70°	1233.4	1244.1	1285.8	1316.6	1388.0	1448.7	1479.7	1529.5	1548.5	1548.5	1547.4
72.5°	1129.9	1147.7	1176.2	1220.3	1288.1	1335.6	1372.6	1417.8	1442.7	1441.5	1441.5
75°	997.8	1014.5	1047.9	1089.5	1148.9	1195.4	1225.1	1267.9	1296.4	1307.1	1295.3
77.5°	849.3	854.0	885.0	927.7	980.0	1012.2	1057.4	1099.0	1122.7	1121.6	1118.0
80°	668.4	674.4	700.6	749.3	777.9	815.9	857.6	880.1	900.3	900.3	898.0
82.5°	461.5	474.5	500.7	532.8	562.5	595.9	618.5	641.1	657.7	656.6	653.0
85°	260.4	266.4	291.4	311.6	334.3	355.6	371.1	385.3	399.6	399.6	397.3
87.5°	78.5	70.2	84.5	92.7	104.7	115.4	122.5	136.7	146.2	135.6	135.6
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°	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6
2.5°	431.8	431.8	431.8	431.8	431.8	431.8	431.8	431.8
5°	437.7	438.8	438.8	440.1	440.1	440.1	440.1	440.1
7.5°	442.5	442.5	442.5	442.5	443.6	443.6	443.6	443.6
10°	456.7	458.0	456.7	456.7	454.3	453.2	453.2	453.2
12.5°	477.0	478.2	478.2	475.8	473.3	471.0	469.8	468.6
15°	496.0	499.5	497.2	496.0	493.7	494.8	494.8	496.0
17.5°	525.7	526.9	523.3	521.0	519.8	522.2	524.5	525.7
20°	576.9	574.5	567.4	565.0	562.5	562.5	565.0	565.0
22.5°	609.0	603.0	598.2	595.9	595.9	595.9	592.4	587.5
25°	631.6	628.0	624.4	626.9	629.2	625.6	617.4	616.1
27.5°	662.5	655.4	654.2	653.0	654.2	651.7	650.6	645.9
30°	702.9	693.4	691.1	688.7	681.6	679.1	681.6	685.1
32.5°	740.9	735.1	737.4	732.7	719.6	714.9	717.2	716.1
35°	795.8	784.9	784.9	775.4	771.9	770.8	761.2	752.9
37.5°	882.5	868.3	864.6	843.3	833.8	836.1	823.1	813.6
40°	988.3	977.7	968.2	944.3	931.3	914.6	906.3	906.3
42.5°	1058.5	1051.4	1038.3	1021.7	1007.4	978.8	968.2	974.2
45°	1135.9	1126.4	1099.0	1082.4	1069.2	1049.0	1037.2	1025.2
47.5°	1214.4	1201.2	1169.2	1147.7	1116.9	1110.9	1097.9	1081.2
50°	1283.4	1278.6	1255.9	1220.3	1181.1	1171.6	1159.7	1144.2
52.5°	1367.8	1339.3	1320.3	1304.8	1260.8	1229.9	1213.2	1220.3
55°	1505.8	1470.1	1421.3	1372.6	1363.1	1326.1	1284.6	1307.1
57.5°	1585.5	1565.2	1528.4	1451.0	1413.0	1388.0	1360.6	1340.4
60°	1604.5	1567.7	1559.3	1501.0	1440.3	1388.0	1398.8	1351.1
62.5°	1641.4	1591.4	1545.0	1498.7	1461.8	1390.5	1388.0	1363.1
63°	1653.2	1603.4	1554.5	1498.7	1465.3	1398.8	1385.6	1372.6
65°	1650.9	1608.0	1571.2	1498.7	1448.7	1422.5	1358.3	1388.0
67.5°	1605.7	1570.0	1527.2	1477.2	1394.0	1373.8	1328.6	1334.5
70°	1533.2	1486.7	1446.3	1400.0	1333.3	1286.9	1259.6	1236.9
72.5°	1420.1	1378.5	1335.6	1292.9	1233.4	1177.5	1158.4	1133.5
75°	1270.3	1229.9	1190.6	1150.2	1094.2	1044.3	1024.0	1006.2
77.5°	1099.0	1064.5	1008.7	970.5	938.5	885.0	865.9	846.8
80°	876.6	860.0	819.5	769.6	752.9	700.6	686.2	661.2
82.5°	637.5	620.9	588.7	554.2	534.0	506.7	482.8	466.3
85°	389.0	371.1	354.4	323.5	311.6	291.4	272.4	262.9
87.5°	140.4	126.0	113.0	98.7	91.5	77.3	74.9	67.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)