

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: P197744

Luminaire Tested: **TT-C5-LED-E1-WQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197744
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-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: 7966.6 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



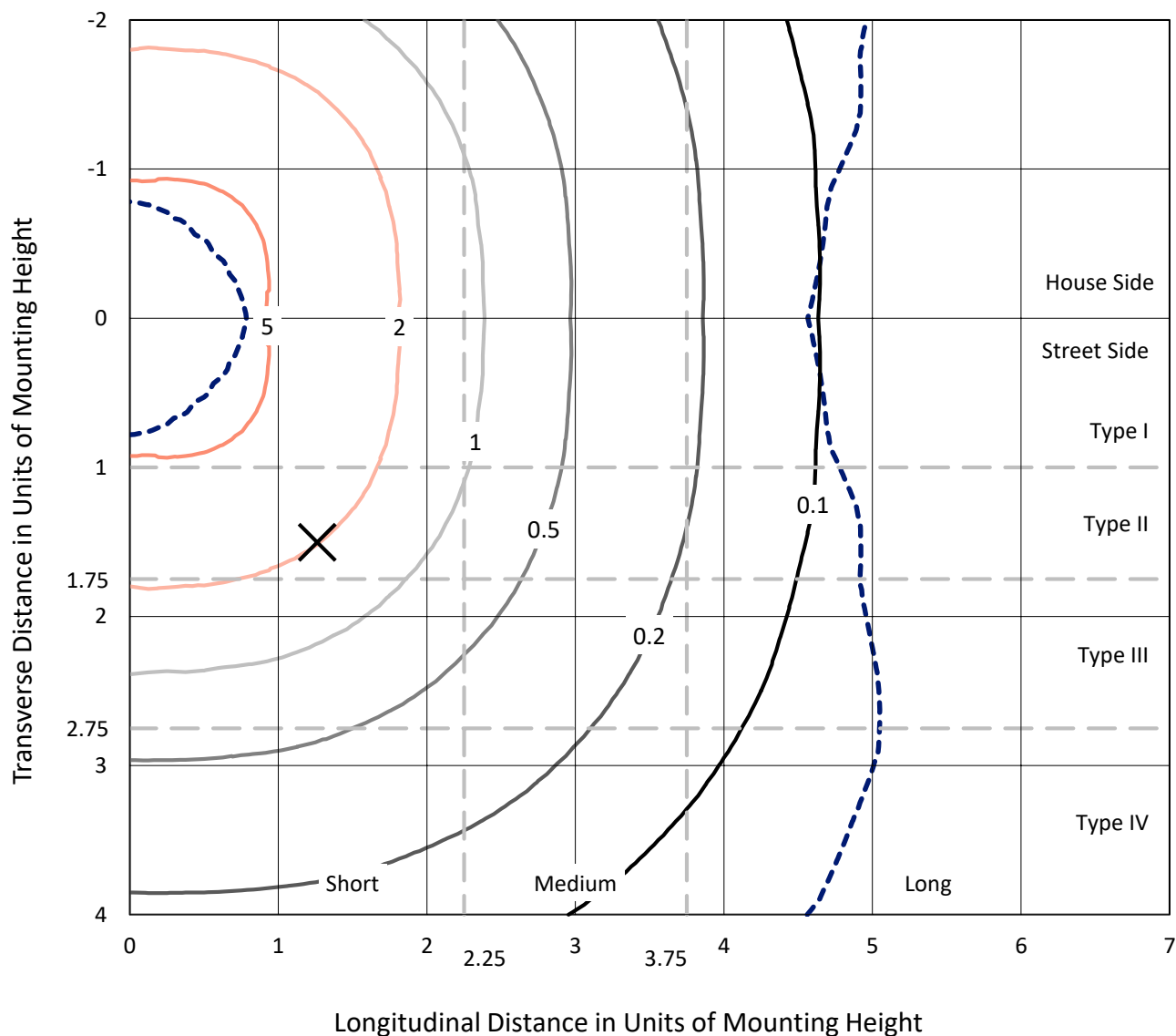
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

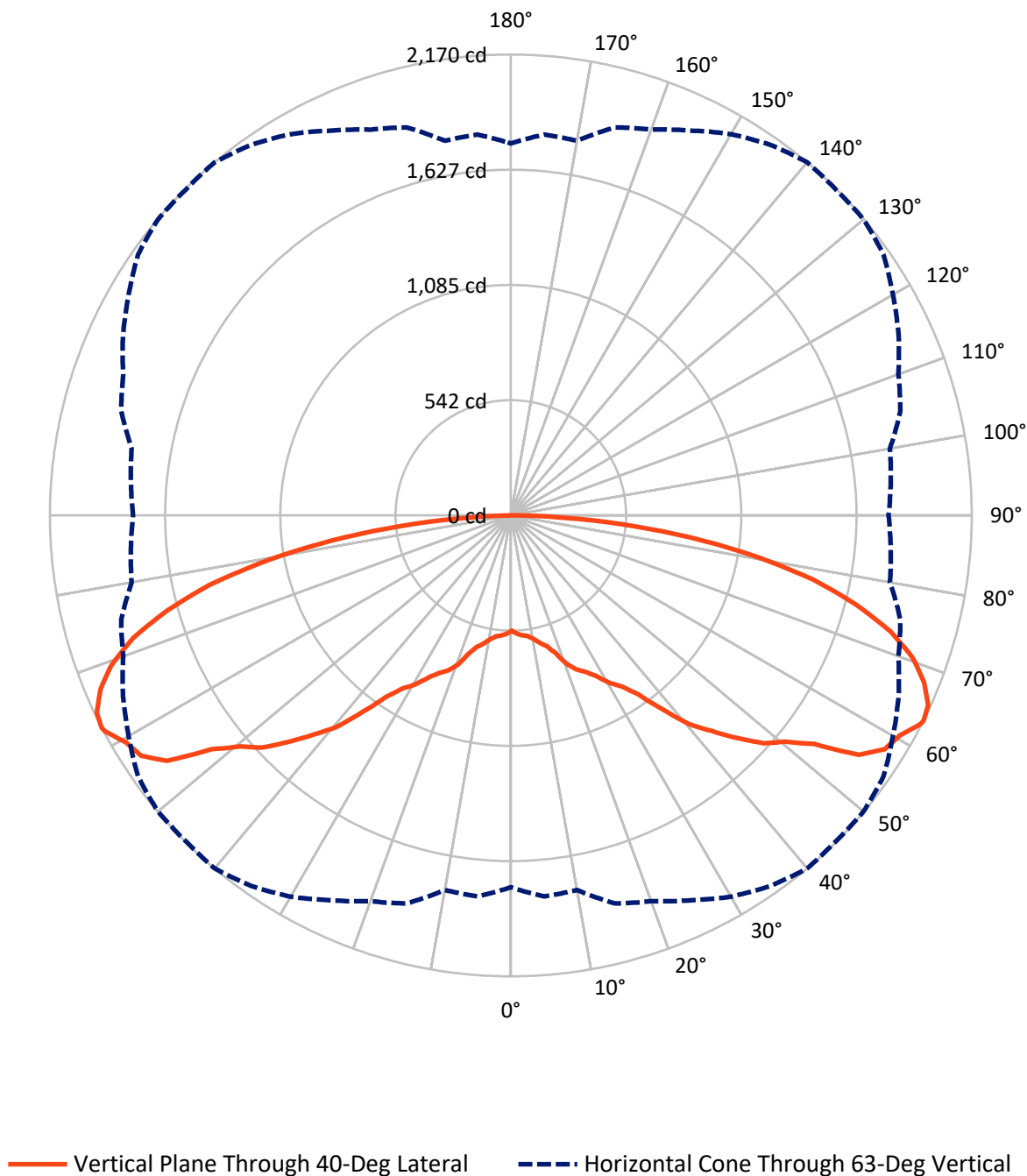


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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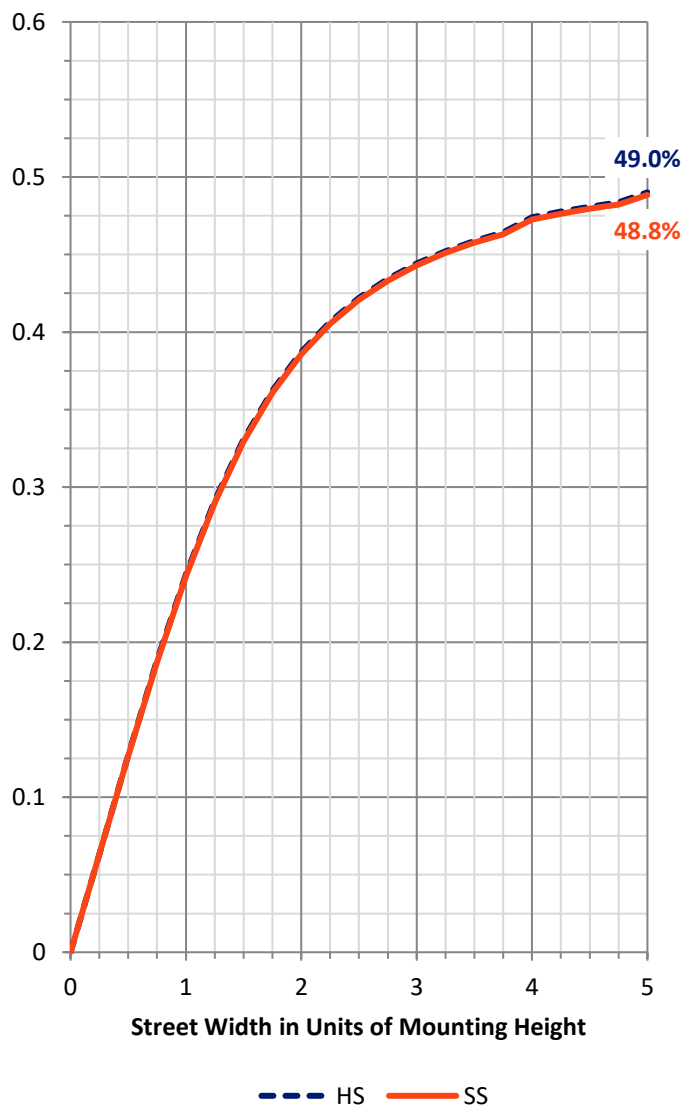
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3983.3	0.0	3983.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3983.3	0.0	3983.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	7966.6	0.0	7966.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	0.7
10°-20°	186.1	2.3
20°-30°	378.4	4.7
30°-40°	652.1	8.2
40°-50°	1098.5	13.8
50°-60°	1617.6	20.3
60°-70°	1923.6	24.1
70°-80°	1557.2	19.5
80°-90°	498.2	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°	7966.6	100.0
0°-180°	7966.6	100.0

Coefficient of Utilization



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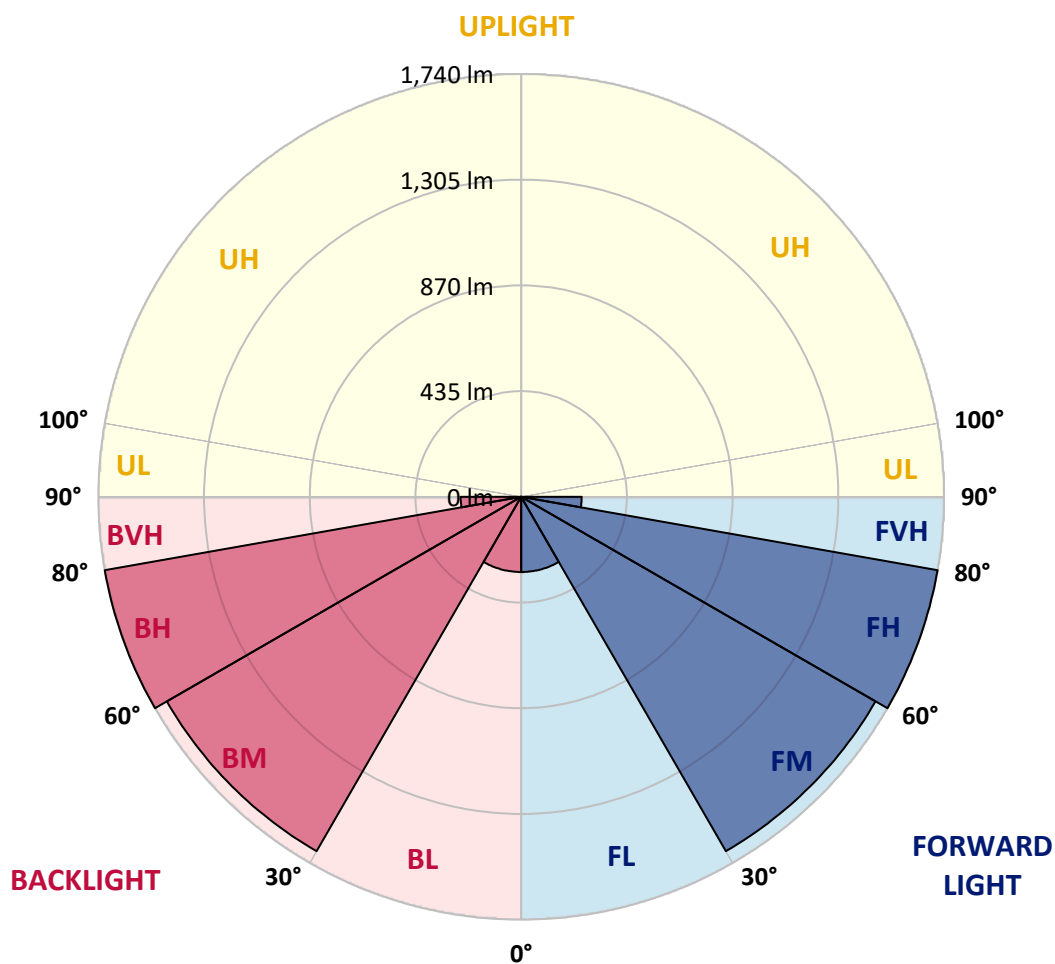
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	309.6	3.9			
FM	(30°-60°)	1684.2	21.1			
FH	(60°-80°)	1740.4	21.8			G1/1800
FVH	(80°-90°)	249.1	3.1			G3/500
BL	(0°-30°)	309.6	3.9	B1/500		
BM	(30°-60°)	1684.2	21.1	B2/2500		
BH	(60°-80°)	1740.4	21.8	B3/2500		G1/1800
BVH	(80°-90°)	249.1	3.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4
2.5°	559.4	559.4	559.4	559.4	559.4	559.4	557.7	559.4	557.7	557.7	557.7
5°	570.2	570.2	570.2	570.2	568.5	568.5	567.0	567.0	567.0	565.5	567.0
7.5°	574.8	574.8	574.8	574.8	573.3	573.3	573.3	573.3	573.3	573.3	573.3
10°	585.6	585.6	587.1	588.6	591.7	591.7	591.7	593.3	591.7	591.7	591.7
12.5°	608.7	607.2	610.2	613.2	616.5	618.0	618.0	618.0	616.5	616.5	618.0
15°	641.1	637.9	639.6	641.1	642.6	644.1	644.1	642.6	639.6	639.6	639.6
17.5°	682.6	678.0	676.5	675.0	675.0	678.0	681.1	679.5	681.1	679.5	681.1
20°	732.0	728.8	728.8	728.8	730.3	736.6	742.8	745.8	744.3	741.1	745.8
22.5°	764.2	765.9	773.5	772.0	770.5	776.7	784.3	790.6	787.3	782.8	785.8
25°	799.8	799.8	810.5	815.2	810.5	810.5	813.7	818.2	815.2	812.1	815.2
27.5°	839.8	839.8	844.4	849.1	846.1	846.1	850.6	858.4	856.7	855.2	856.7
30°	887.6	881.5	876.8	884.5	892.3	893.8	898.4	910.7	913.7	912.2	915.4
32.5°	932.3	923.0	926.2	930.7	947.6	953.9	952.3	961.6	959.9	955.4	961.6
35°	975.5	986.3	992.3	1001.6	1007.8	1015.4	1015.4	1032.5	1035.5	1031.0	1035.5
37.5°	1058.6	1063.2	1080.2	1081.7	1089.5	1118.7	1121.9	1145.0	1157.3	1151.1	1152.6
40°	1172.7	1171.2	1183.5	1201.9	1217.4	1254.3	1265.1	1280.5	1291.3	1286.7	1292.8
42.5°	1265.1	1252.8	1262.1	1302.1	1319.1	1346.8	1360.6	1368.4	1388.4	1382.2	1390.0
45°	1331.4	1336.0	1348.3	1388.4	1399.2	1422.4	1454.6	1468.6	1494.7	1487.0	1491.7
47.5°	1396.0	1417.6	1428.4	1447.0	1480.9	1511.6	1551.8	1565.6	1602.5	1599.5	1594.9
50°	1480.9	1497.8	1510.1	1523.9	1570.3	1621.1	1655.0	1661.1	1673.4	1664.3	1679.6
52.5°	1571.8	1570.3	1580.9	1619.6	1684.2	1704.3	1733.6	1761.3	1787.4	1796.7	1787.4
55°	1691.9	1653.5	1698.2	1753.5	1781.4	1829.1	1900.0	1938.6	1989.4	1997.1	1981.6
57.5°	1741.2	1741.2	1787.4	1819.8	1870.8	1955.5	2031.0	2049.4	2075.6	2061.8	2077.3
60°	1735.1	1793.7	1793.7	1850.7	1933.9	2009.5	2037.1	2068.0	2103.4	2101.9	2101.9
62.5°	1742.9	1799.8	1784.4	1883.1	1933.9	1995.4	2057.2	2114.2	2163.5	2162.0	2160.4
63°	1750.5	1799.8	1790.6	1890.7	1932.4	1998.7	2072.5	2129.6	2169.7	2166.5	2168.0
65°	1773.6	1759.8	1815.3	1878.4	1926.1	2024.8	2086.4	2131.1	2158.9	2157.4	2157.4
67.5°	1730.4	1698.2	1776.6	1801.4	1892.4	1980.1	2027.8	2078.8	2098.7	2098.7	2095.7
70°	1598.0	1611.8	1665.8	1705.8	1798.2	1876.8	1917.0	1981.6	2006.2	2006.2	2004.7
72.5°	1463.9	1487.0	1523.9	1580.9	1668.8	1730.4	1778.3	1836.9	1869.1	1867.6	1867.6
75°	1292.8	1314.4	1357.6	1411.6	1488.5	1548.7	1587.2	1642.7	1679.6	1693.5	1678.1
77.5°	1100.3	1106.4	1146.5	1201.9	1269.7	1311.3	1369.9	1423.9	1454.6	1453.1	1448.5
80°	866.0	873.7	907.6	970.7	1007.8	1057.1	1111.1	1140.3	1166.4	1166.4	1163.4
82.5°	597.9	614.8	648.7	690.3	728.8	772.0	801.4	830.5	852.1	850.6	846.1
85°	337.4	345.2	377.6	403.7	433.1	460.7	480.8	499.2	517.8	517.8	514.7
87.5°	101.7	90.9	109.5	120.1	135.6	149.5	158.8	177.1	189.5	175.6	175.6
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°	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4
2.5°	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4
5°	567.0	568.5	568.5	570.2	570.2	570.2	570.2	570.2
7.5°	573.3	573.3	573.3	573.3	574.8	574.8	574.8	574.8
10°	591.7	593.3	591.7	591.7	588.6	587.1	587.1	587.1
12.5°	618.0	619.5	619.5	616.5	613.2	610.2	608.7	607.2
15°	642.6	647.2	644.1	642.6	639.6	641.1	641.1	642.6
17.5°	681.1	682.6	678.0	675.0	673.5	676.5	679.5	681.1
20°	747.4	744.3	735.1	732.0	728.8	728.8	732.0	732.0
22.5°	789.0	781.3	775.0	772.0	772.0	772.0	767.4	761.2
25°	818.2	813.7	808.9	812.1	815.2	810.5	799.8	798.1
27.5°	858.4	849.1	847.6	846.1	847.6	844.4	842.9	836.8
30°	910.7	898.4	895.3	892.3	883.0	879.8	883.0	887.6
32.5°	959.9	952.3	955.4	949.3	932.3	926.2	929.2	927.7
35°	1031.0	1017.0	1017.0	1004.6	1000.1	998.6	986.3	975.5
37.5°	1143.3	1124.9	1120.2	1092.5	1080.2	1083.3	1066.4	1054.1
40°	1280.5	1266.6	1254.3	1223.5	1206.6	1185.0	1174.2	1174.2
42.5°	1371.4	1362.1	1345.3	1323.7	1305.1	1268.2	1254.3	1262.1
45°	1471.6	1459.3	1423.9	1402.3	1385.2	1359.1	1343.7	1328.2
47.5°	1573.3	1556.3	1514.8	1487.0	1447.0	1439.2	1422.4	1400.8
50°	1662.8	1656.5	1627.2	1580.9	1530.2	1517.8	1502.5	1482.4
52.5°	1772.1	1735.1	1710.5	1690.4	1633.4	1593.4	1571.8	1580.9
55°	1950.9	1904.7	1841.4	1778.3	1766.0	1718.1	1664.3	1693.5
57.5°	2054.2	2027.8	1980.1	1879.9	1830.6	1798.2	1762.8	1736.7
60°	2078.8	2031.0	2020.2	1944.7	1866.1	1798.2	1812.2	1750.5
62.5°	2126.5	2061.8	2001.7	1941.6	1893.9	1801.4	1798.2	1766.0
63°	2141.9	2077.3	2014.0	1941.6	1898.4	1812.2	1795.2	1778.3
65°	2138.8	2083.3	2035.6	1941.6	1876.8	1842.9	1759.8	1798.2
67.5°	2080.3	2034.1	1978.6	1913.8	1806.0	1779.8	1721.3	1728.9
70°	1986.3	1926.1	1873.8	1813.8	1727.4	1667.3	1631.9	1602.5
72.5°	1839.9	1785.9	1730.4	1675.1	1598.0	1525.6	1500.8	1468.6
75°	1645.7	1593.4	1542.5	1490.2	1417.6	1353.0	1326.7	1303.6
77.5°	1423.9	1379.2	1306.8	1257.4	1215.9	1146.5	1121.9	1097.1
80°	1135.7	1114.1	1061.7	997.1	975.5	907.6	889.1	856.7
82.5°	826.0	804.4	762.7	718.0	691.9	656.4	625.6	604.1
85°	503.9	480.8	459.2	419.1	403.7	377.6	352.9	340.6
87.5°	181.9	163.3	146.4	127.9	118.6	100.2	97.0	87.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)