

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: P197816

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
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-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7621.9 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full 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

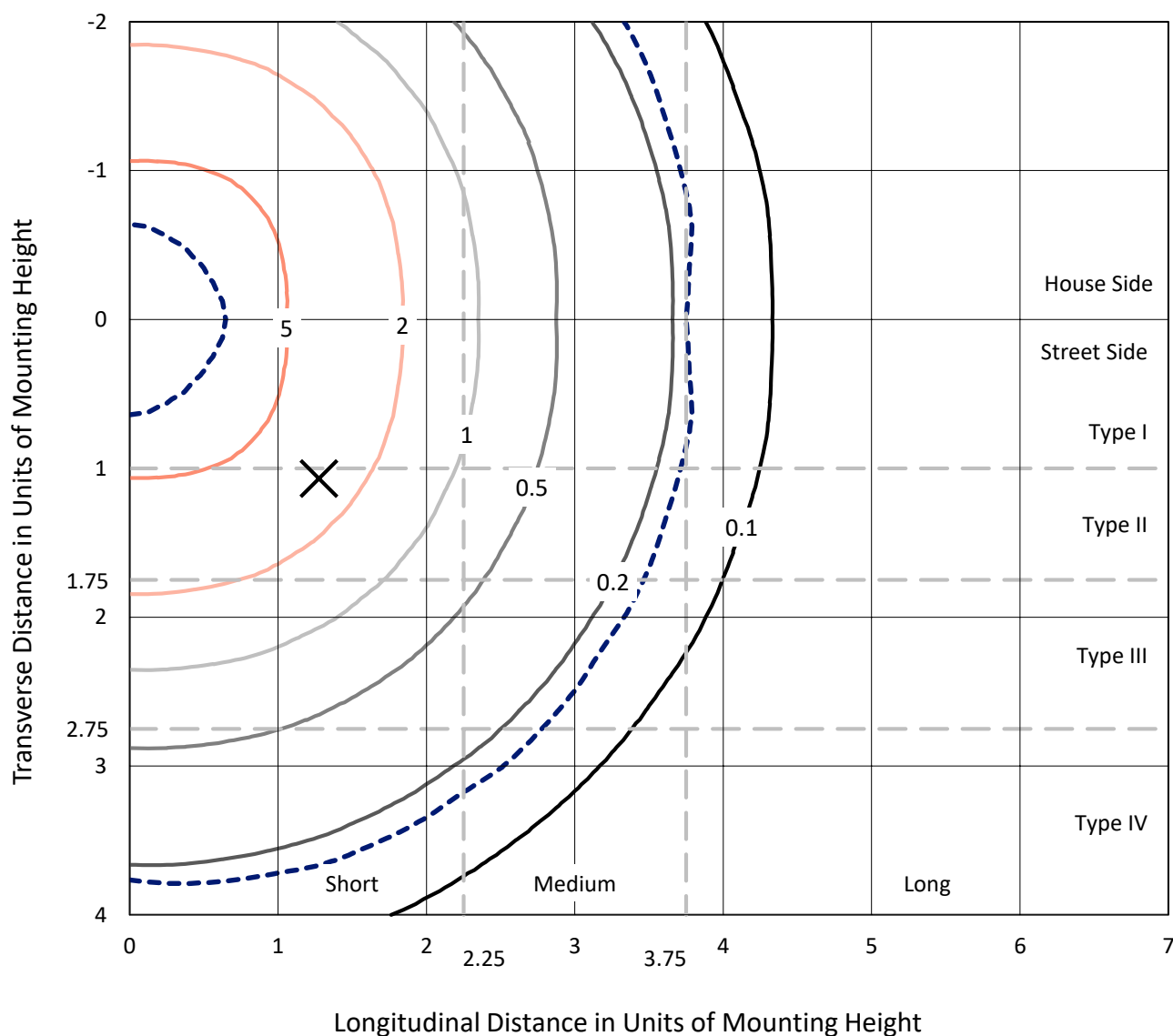


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

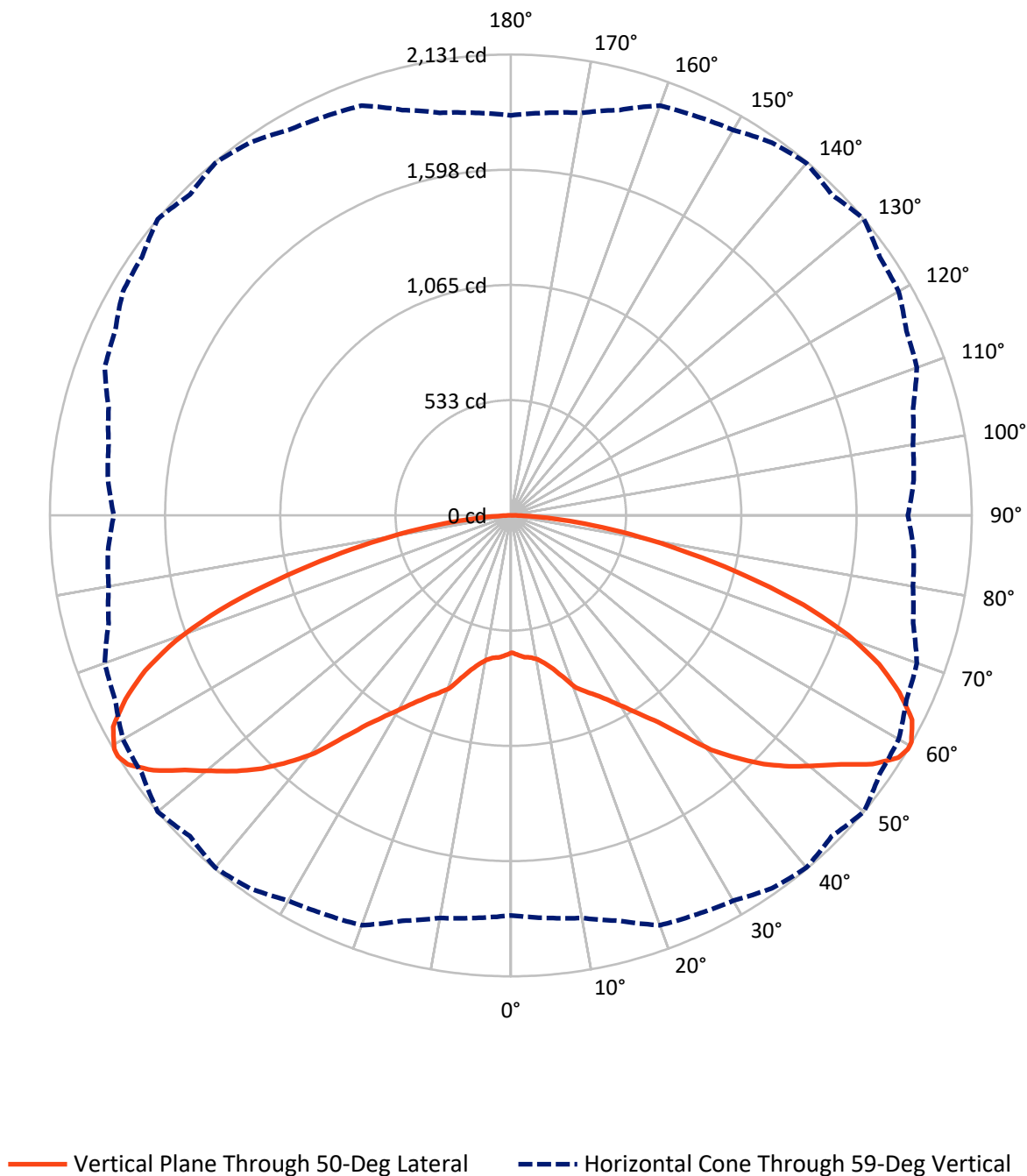


Based on 10 foot mounting height. Maximum calculated value = 7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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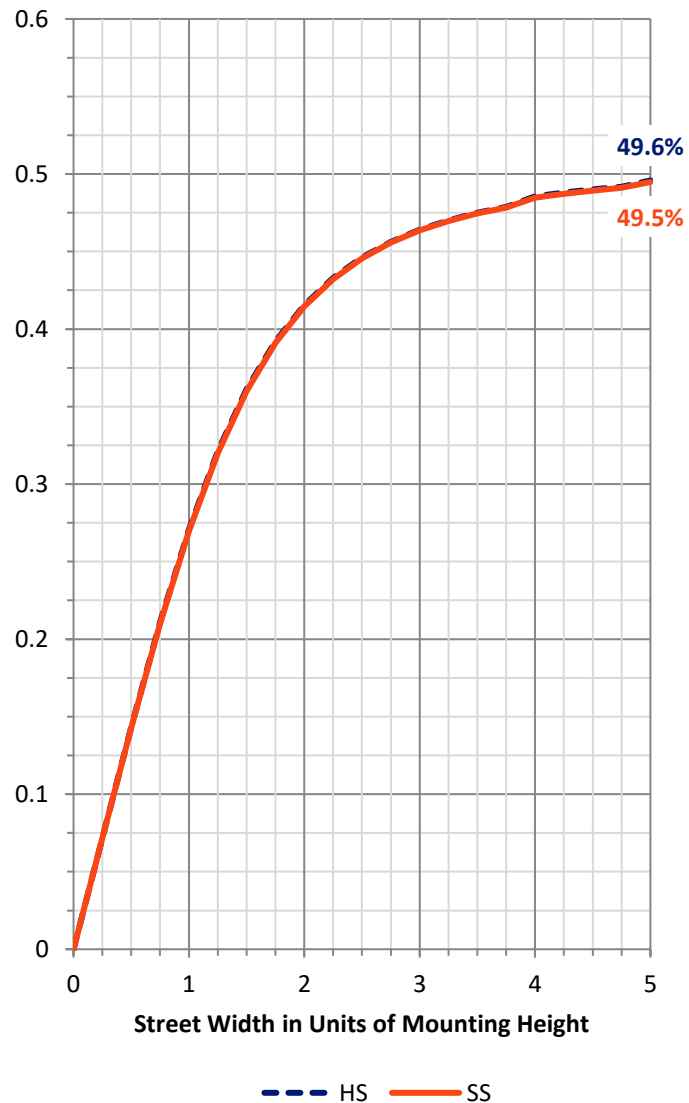
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3810.9	0.0	3810.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3810.9	0.0	3810.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7621.9	0.0	7621.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	0.8
10°-20°	212.9	2.8
20°-30°	428.4	5.6
30°-40°	737.2	9.7
40°-50°	1217.0	16.0
50°-60°	1713.8	22.5
60°-70°	1833.4	24.1
70°-80°	1164.5	15.3
80°-90°	251.7	3.3
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°	7621.9	100.0
0°-180°	7621.9	100.0

Coefficient of Utilization



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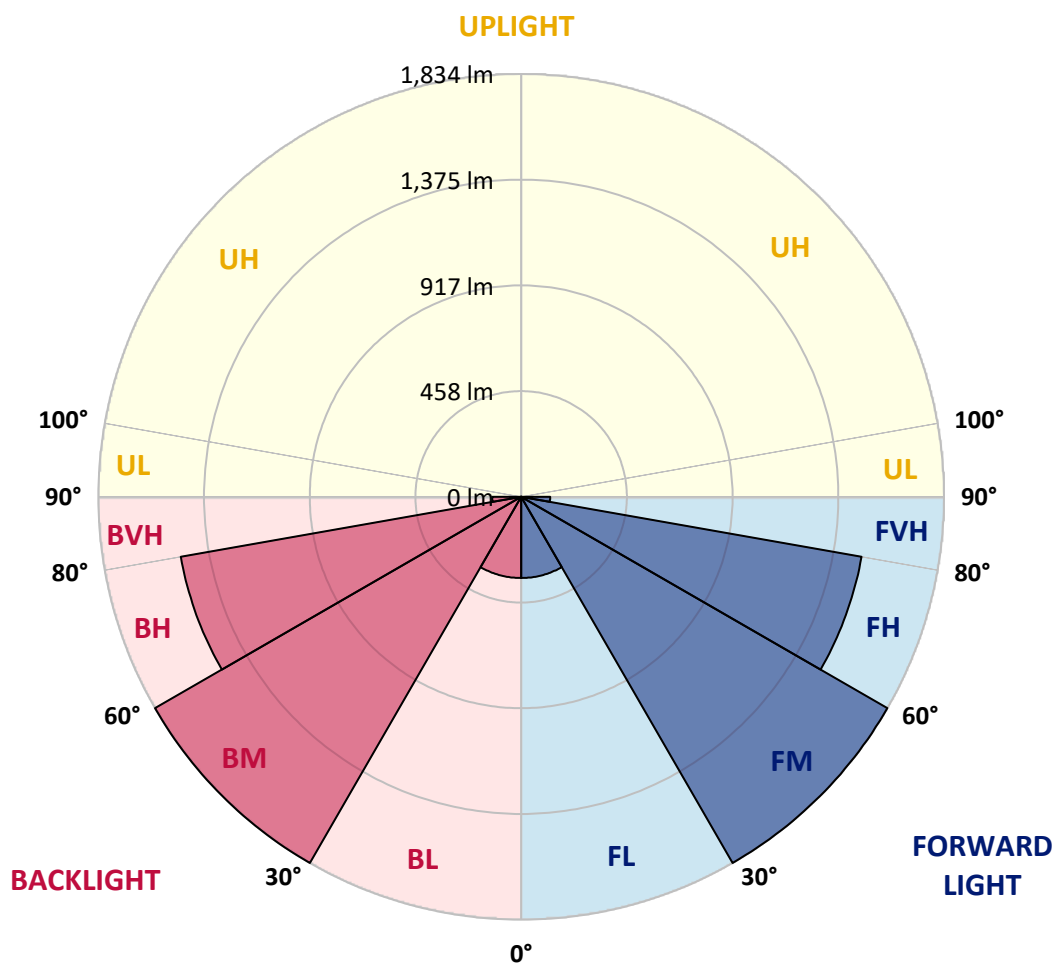
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.2	4.6			
FM	(30°-60°)	1834.0	24.1			
FH	(60°-80°)	1498.9	19.7			G1/1800
FVH	(80°-90°)	125.8	1.7			G2/225
BL	(0°-30°)	352.2	4.6	B1/500		
BM	(30°-60°)	1834.0	24.1	B2/2500		
BH	(60°-80°)	1498.9	19.7	B3/2500		G1/1800
BVH	(80°-90°)	125.8	1.7			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°	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3
2.5°	647.8	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
5°	651.2	651.2	652.9	652.9	654.6	654.6	654.6	656.3	656.3	656.3	658.0
7.5°	658.0	656.3	658.0	658.0	658.0	659.6	659.6	659.6	661.3	663.0	663.0
10°	679.9	678.2	679.9	679.9	679.9	676.5	676.5	678.2	676.5	676.5	676.5
12.5°	705.2	705.2	706.9	708.6	708.6	706.9	705.2	703.5	701.8	701.8	701.8
15°	728.8	730.5	732.2	735.6	737.2	737.2	738.9	740.6	738.9	738.9	737.2
17.5°	765.9	769.3	771.0	772.7	772.7	772.7	776.0	781.1	786.2	789.5	786.2
20°	828.3	830.0	833.4	833.4	831.7	833.4	836.8	838.5	841.8	845.2	846.9
22.5°	870.5	873.9	879.0	879.0	877.3	879.0	882.3	882.3	879.0	880.6	884.0
25°	905.9	907.6	911.0	912.7	914.4	922.8	929.6	927.9	921.1	922.8	921.1
27.5°	948.1	951.5	954.9	954.9	954.9	959.9	966.7	970.1	975.1	973.4	968.4
30°	1003.8	1008.9	1010.5	1008.9	1012.2	1017.3	1015.6	1019.0	1027.4	1035.9	1025.7
32.5°	1047.7	1052.7	1057.8	1064.5	1076.3	1083.1	1079.7	1081.4	1086.5	1093.2	1093.2
35°	1113.5	1121.9	1125.3	1127.0	1138.8	1152.3	1162.4	1170.8	1169.1	1164.1	1172.5
37.5°	1213.0	1221.4	1224.8	1231.5	1246.7	1250.1	1265.3	1285.5	1292.3	1285.5	1285.5
40°	1319.3	1327.7	1344.6	1359.8	1383.4	1388.4	1407.0	1415.4	1432.3	1434.0	1423.9
42.5°	1407.0	1417.1	1420.5	1445.8	1477.9	1501.5	1521.7	1523.4	1535.2	1545.3	1533.5
45°	1501.5	1509.9	1515.0	1538.6	1555.5	1584.1	1616.2	1629.7	1634.8	1633.1	1639.8
47.5°	1589.2	1601.0	1606.1	1624.6	1644.9	1668.5	1687.1	1725.9	1734.3	1717.4	1732.6
50°	1643.2	1656.7	1668.5	1709.0	1744.4	1763.0	1778.2	1810.2	1828.8	1813.6	1818.6
52.5°	1727.5	1730.9	1741.0	1757.9	1810.2	1872.6	1889.5	1899.6	1926.6	1935.1	1911.4
55°	1842.3	1854.1	1862.5	1884.4	1906.4	1950.2	2024.5	2038.0	2031.2	2071.7	2029.5
57.5°	1859.1	1881.1	1906.4	1955.3	1999.2	2012.7	2056.5	2108.8	2103.8	2108.8	2112.2
59°	1849.0	1867.6	1889.5	1940.1	2016.0	2034.6	2056.5	2103.8	2125.7	2097.0	2130.7
60°	1852.4	1865.9	1877.7	1918.2	1999.2	2041.3	2054.8	2083.5	2125.7	2086.9	2127.4
62.5°	1838.9	1855.8	1869.3	1892.9	1931.7	1990.7	2043.0	2029.5	2090.3	2059.9	2081.8
65°	1766.3	1784.9	1811.9	1845.6	1891.2	1908.1	1960.4	1989.0	1975.5	2009.3	1973.9
67.5°	1644.9	1661.7	1678.6	1719.1	1769.7	1791.7	1805.1	1857.4	1838.9	1877.7	1837.2
70°	1482.9	1501.5	1525.1	1547.0	1592.6	1611.1	1626.3	1649.9	1656.7	1656.7	1653.3
72.5°	1288.9	1304.1	1319.3	1341.2	1368.2	1385.1	1391.8	1396.9	1423.9	1413.8	1415.4
75°	1069.6	1084.8	1091.5	1100.0	1118.5	1116.8	1123.6	1120.2	1137.1	1130.3	1127.0
77.5°	836.8	841.8	860.4	860.4	855.3	863.8	855.3	850.3	846.9	850.3	850.3
80°	580.3	595.5	607.3	615.8	619.1	615.8	617.5	610.7	610.7	605.7	607.3
82.5°	357.7	372.8	377.9	386.3	388.0	388.0	388.0	383.0	384.6	379.6	383.0
85°	175.5	175.5	182.2	190.6	192.3	195.7	195.7	195.7	195.7	195.7	197.4
87.5°	43.9	43.9	47.2	52.3	52.3	54.0	55.7	57.4	57.4	59.0	59.0
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°	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3
2.5°	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
5°	658.0	656.3	656.3	654.6	654.6	652.9	652.9	652.9
7.5°	664.7	664.7	663.0	661.3	659.6	659.6	661.3	661.3
10°	678.2	681.6	683.3	683.3	681.6	681.6	679.9	679.9
12.5°	700.1	703.5	706.9	710.2	710.2	708.6	705.2	703.5
15°	733.9	733.9	735.6	737.2	737.2	733.9	727.1	727.1
17.5°	779.4	776.0	771.0	772.7	774.4	772.7	765.9	769.3
20°	841.8	835.1	831.7	828.3	835.1	835.1	825.0	825.0
22.5°	887.4	882.3	873.9	872.2	877.3	880.6	872.2	867.1
25°	926.2	927.9	917.8	912.7	914.4	916.1	904.3	905.9
27.5°	968.4	970.1	965.0	956.6	953.2	958.2	949.8	946.4
30°	1019.0	1017.3	1020.7	1010.5	1002.1	1007.2	1007.2	998.7
32.5°	1084.8	1079.7	1081.4	1069.6	1059.5	1057.8	1051.0	1040.9
35°	1174.2	1160.7	1150.6	1143.8	1125.3	1121.9	1121.9	1110.1
37.5°	1290.6	1270.4	1251.8	1251.8	1223.1	1214.7	1219.7	1204.6
40°	1420.5	1413.8	1385.1	1380.0	1349.6	1329.4	1329.4	1310.8
42.5°	1515.0	1523.4	1489.7	1469.4	1449.2	1417.1	1420.5	1396.9
45°	1617.9	1612.8	1584.1	1548.7	1542.0	1508.2	1511.6	1488.0
47.5°	1715.7	1685.4	1671.9	1636.4	1621.3	1582.5	1594.3	1575.7
50°	1810.2	1776.5	1763.0	1720.8	1700.6	1658.4	1660.1	1626.3
52.5°	1908.1	1877.7	1857.4	1803.5	1768.0	1737.7	1730.9	1715.7
55°	2034.6	2002.5	1953.6	1903.0	1876.0	1832.1	1837.2	1813.6
57.5°	2083.5	2063.3	2011.0	1980.6	1930.0	1886.1	1876.0	1833.8
59°	2081.8	2070.0	2017.7	1997.5	1924.9	1887.8	1869.3	1835.5
60°	2070.0	2066.6	2014.3	1989.0	1913.1	1879.4	1862.5	1840.6
62.5°	2034.6	2032.9	1973.9	1943.5	1881.1	1854.1	1844.0	1815.3
65°	1982.3	1953.6	1908.1	1887.8	1823.7	1803.5	1774.8	1746.1
67.5°	1857.4	1793.3	1786.6	1761.3	1705.6	1680.3	1661.7	1634.8
70°	1651.6	1609.5	1609.5	1577.4	1538.6	1526.8	1501.5	1471.1
72.5°	1395.2	1385.1	1390.1	1353.0	1334.5	1327.7	1305.8	1278.8
75°	1115.1	1116.8	1111.8	1103.3	1098.3	1100.0	1076.3	1064.5
77.5°	845.2	860.4	857.0	845.2	857.0	855.3	835.1	830.0
80°	602.3	609.0	612.4	605.7	612.4	607.3	590.5	588.8
82.5°	379.6	381.3	384.6	377.9	379.6	377.9	366.1	366.1
85°	194.0	200.8	192.3	185.6	185.6	178.8	175.5	177.1
87.5°	57.4	60.7	54.0	54.0	50.6	47.2	45.6	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)