

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: P197674

Luminaire Tested: **TT-C6-LED-E1-MQ-CG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-MQ-CG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9731.5 lumens
Efficiency: N/A
Efficacy: 90.1 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): 108
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

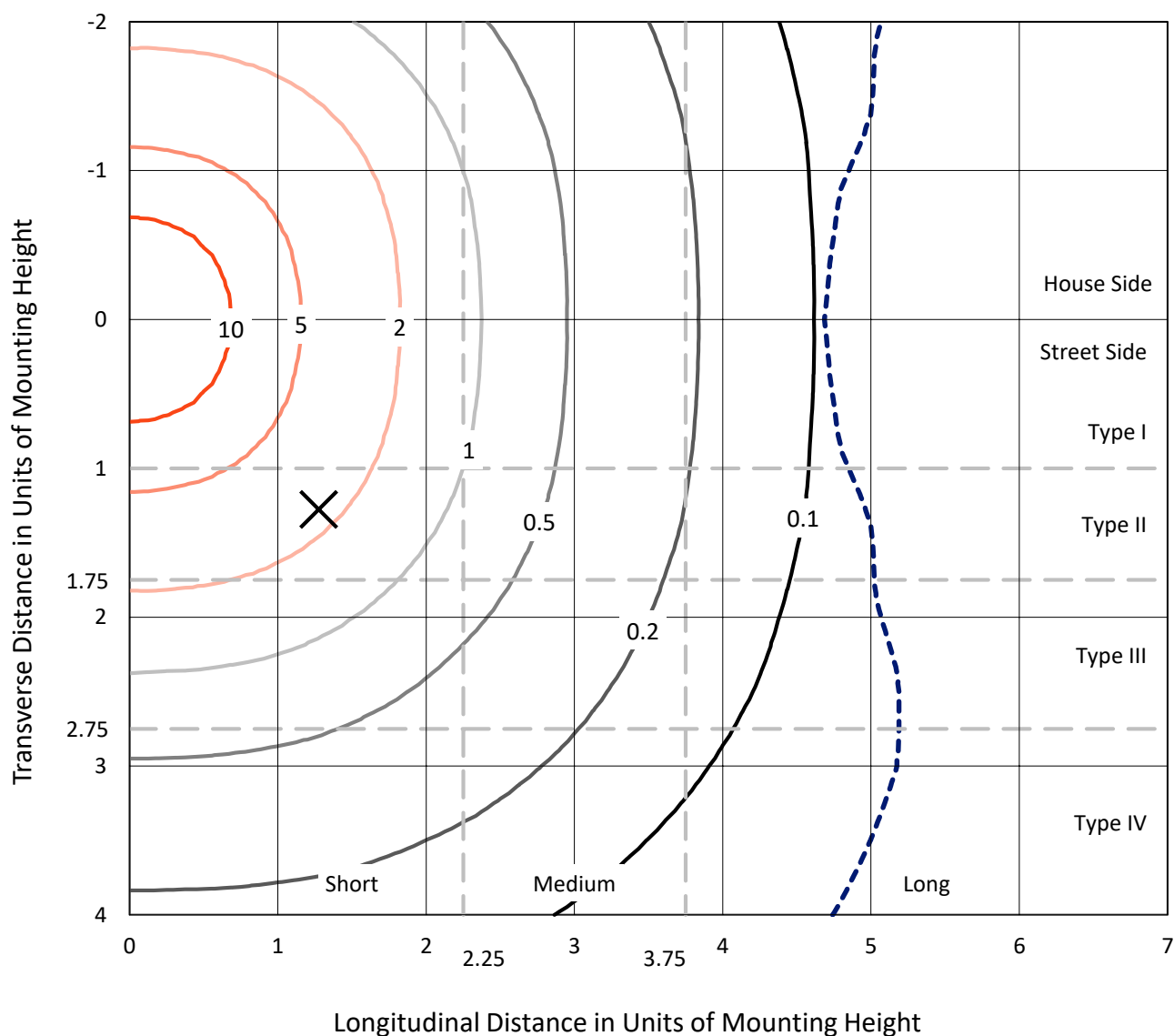


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

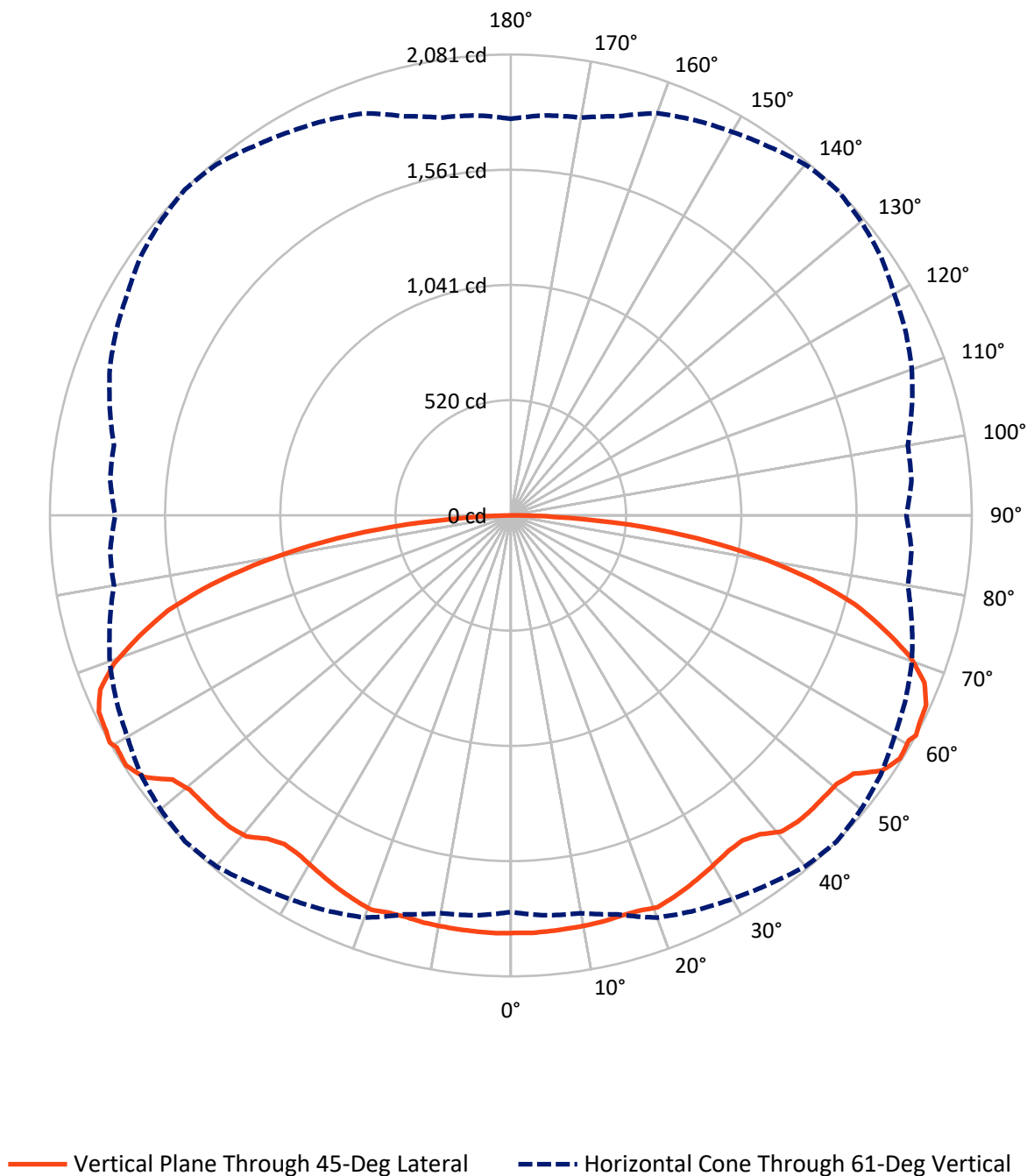


Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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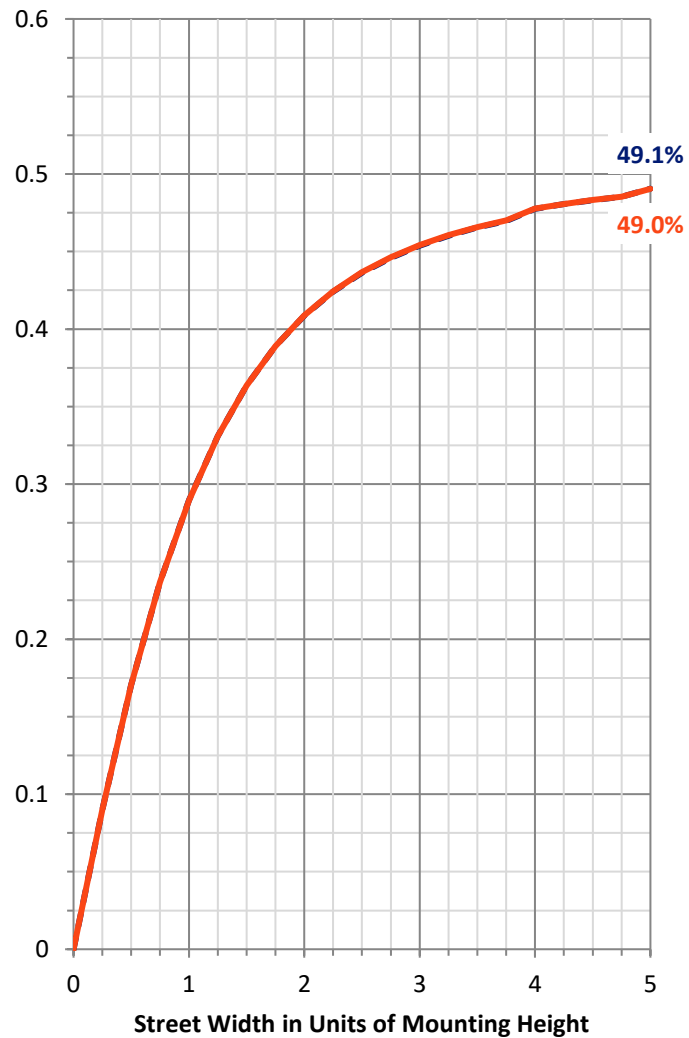
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4865.7	0.0	4865.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4865.7	0.0	4865.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9731.5	0.0	9731.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.8
10°-20°	531.8	5.5
20°-30°	855.6	8.8
30°-40°	1133.4	11.6
40°-50°	1431.3	14.7
50°-60°	1715.1	17.6
60°-70°	1875.3	19.3
70°-80°	1501.2	15.4
80°-90°	507.9	5.2
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°	9731.5	100.0
0°-180°	9731.5	100.0

Coefficient of Utilization



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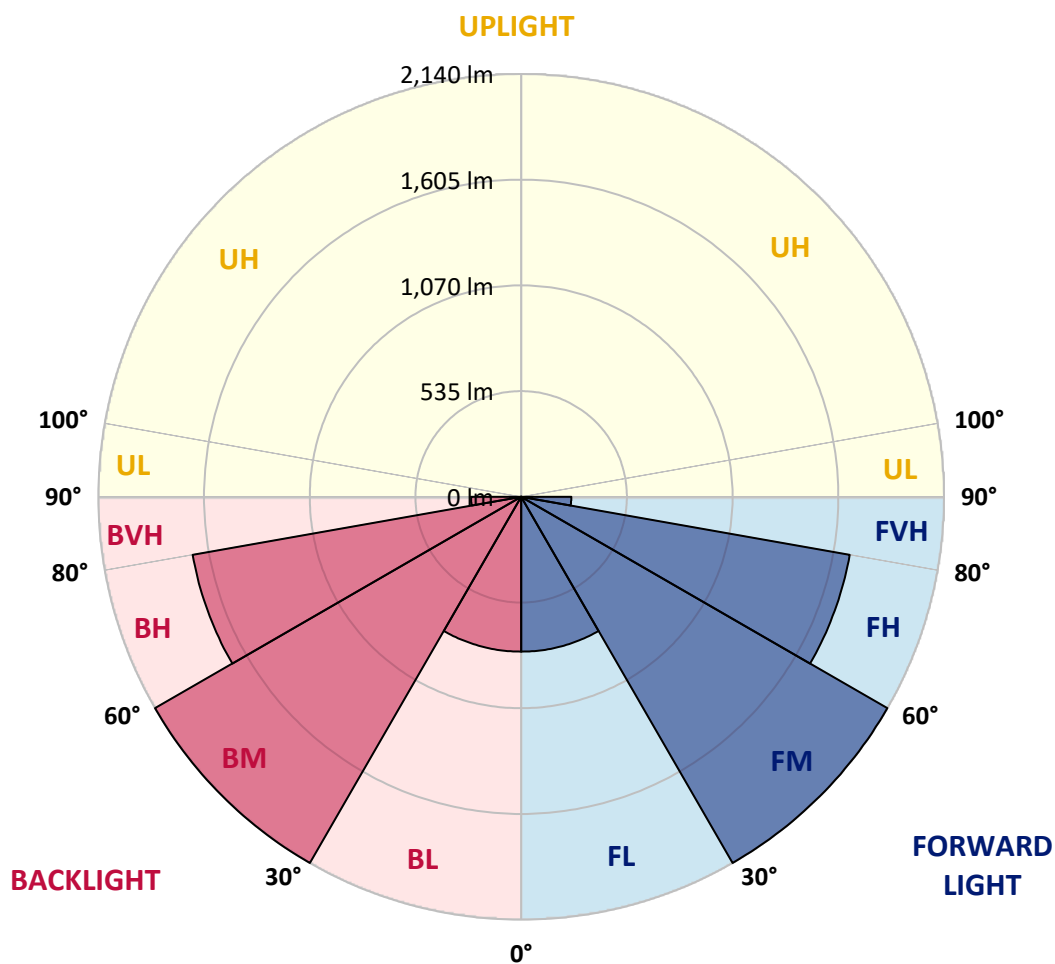
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.6	8.1			
FM	(30°-60°)	2139.9	22.0			
FH	(60°-80°)	1688.2	17.3			G1/1800
FVH	(80°-90°)	254.0	2.6			G3/500
BL	(0°-30°)	783.6	8.1	B2/1000		
BM	(30°-60°)	2139.9	22.0	B2/2500		
BH	(60°-80°)	1688.2	17.3	B3/2500		G1/1800
BVH	(80°-90°)	254.0	2.6			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°	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5
2.5°	1887.1	1885.5	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1
5°	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5
7.5°	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1885.5	1883.7	1885.5
10°	1880.0	1880.0	1880.0	1880.0	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9	1881.9
12.5°	1876.4	1876.4	1876.4	1876.4	1878.2	1878.2	1878.2	1878.2	1880.0	1880.0	1878.2
15°	1872.7	1870.9	1870.9	1872.7	1872.7	1874.5	1874.5	1874.5	1876.4	1874.5	1874.5
17.5°	1869.0	1867.2	1869.0	1870.9	1870.9	1872.7	1874.5	1874.5	1876.4	1876.4	1876.4
20°	1874.5	1872.7	1874.5	1876.4	1878.2	1881.9	1883.7	1885.5	1887.1	1888.9	1888.9
22.5°	1863.6	1861.7	1863.6	1863.6	1865.4	1867.2	1870.9	1872.7	1874.5	1874.5	1874.5
25°	1847.3	1847.3	1849.1	1849.1	1851.0	1852.8	1854.6	1856.5	1856.5	1858.3	1856.5
27.5°	1829.3	1829.3	1831.1	1831.1	1834.7	1834.7	1836.6	1838.2	1840.0	1840.0	1840.0
30°	1807.5	1807.5	1809.4	1811.2	1814.6	1816.4	1818.3	1820.1	1821.9	1821.9	1821.9
32.5°	1787.6	1785.8	1787.6	1791.1	1796.5	1800.2	1803.9	1805.7	1805.7	1805.7	1807.5
35°	1771.2	1773.0	1776.6	1780.3	1787.6	1791.1	1794.7	1800.2	1802.0	1802.0	1802.0
37.5°	1774.8	1776.6	1782.1	1789.2	1798.4	1809.4	1816.4	1823.8	1829.3	1827.4	1825.6
40°	1798.4	1802.0	1811.2	1821.9	1836.6	1851.0	1861.7	1870.9	1876.4	1878.2	1876.4
42.5°	1802.0	1805.7	1812.8	1829.3	1845.5	1861.7	1876.4	1885.5	1892.6	1894.4	1892.6
45°	1800.2	1800.2	1811.2	1829.3	1845.5	1861.7	1880.0	1892.6	1899.9	1899.9	1899.9
47.5°	1787.6	1792.9	1800.2	1818.3	1840.0	1856.5	1874.5	1887.1	1896.3	1901.8	1896.3
50°	1787.6	1787.6	1800.2	1812.8	1832.9	1861.7	1887.1	1899.9	1909.1	1907.2	1909.1
52.5°	1784.0	1794.7	1802.0	1820.1	1856.5	1885.5	1905.4	1923.5	1936.1	1937.9	1934.5
55°	1816.4	1818.3	1834.7	1869.0	1903.6	1936.1	1972.4	1999.6	2021.4	2034.2	2015.9
57.5°	1841.8	1832.9	1865.4	1894.4	1934.5	1983.4	2037.6	2059.3	2075.8	2072.1	2077.6
60°	1807.5	1820.1	1843.7	1874.5	1937.9	1986.8	2015.9	2039.4	2059.3	2064.8	2057.7
61°	1791.1	1812.8	1823.8	1865.4	1932.6	1968.8	1999.6	2032.3	2068.5	2081.3	2064.8
62.5°	1763.8	1798.4	1794.7	1861.7	1903.6	1945.2	2003.3	2041.3	2066.7	2070.3	2066.7
65°	1765.7	1760.4	1802.0	1851.0	1892.6	1966.9	2015.9	2039.4	2054.1	2061.2	2057.7
67.5°	1707.8	1689.5	1740.3	1774.8	1845.5	1903.6	1950.7	1985.0	2007.0	2014.1	2005.1
70°	1573.5	1586.4	1622.5	1675.1	1733.2	1803.9	1847.3	1892.6	1910.9	1912.5	1912.5
72.5°	1444.8	1452.1	1488.5	1537.4	1604.4	1665.9	1709.6	1745.8	1762.2	1763.8	1767.5
75°	1274.4	1281.7	1323.3	1368.6	1435.9	1488.5	1519.1	1562.8	1586.4	1606.3	1590.0
77.5°	1076.8	1089.6	1122.1	1171.2	1232.8	1261.8	1316.2	1367.0	1383.3	1388.7	1383.3
80°	853.8	870.3	899.3	964.5	991.7	1038.8	1091.4	1113.1	1127.6	1131.2	1133.0
82.5°	614.6	627.4	658.0	703.3	734.2	772.4	808.5	835.7	852.0	848.5	846.7
85°	362.5	366.2	398.9	429.8	453.3	476.9	505.7	525.8	529.5	536.6	534.7
87.5°	108.9	110.7	125.1	141.3	152.3	163.1	181.4	204.9	210.2	195.8	197.6
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°	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5
2.5°	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1885.5	1887.1
5°	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5	1885.5
7.5°	1885.5	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7	1883.7
10°	1881.9	1881.9	1881.9	1881.9	1880.0	1880.0	1880.0	1880.0
12.5°	1878.2	1878.2	1878.2	1878.2	1876.4	1876.4	1876.4	1876.4
15°	1874.5	1874.5	1874.5	1874.5	1872.7	1872.7	1872.7	1872.7
17.5°	1876.4	1874.5	1872.7	1872.7	1870.9	1869.0	1869.0	1869.0
20°	1887.1	1885.5	1881.9	1878.2	1876.4	1874.5	1874.5	1874.5
22.5°	1872.7	1870.9	1867.2	1865.4	1865.4	1863.6	1861.7	1861.7
25°	1856.5	1852.8	1852.8	1851.0	1851.0	1847.3	1847.3	1845.5
27.5°	1838.2	1836.6	1834.7	1832.9	1832.9	1831.1	1829.3	1827.4
30°	1821.9	1818.3	1814.6	1812.8	1811.2	1809.4	1809.4	1809.4
32.5°	1805.7	1802.0	1800.2	1794.7	1791.1	1789.2	1787.6	1787.6
35°	1800.2	1794.7	1791.1	1785.8	1780.3	1776.6	1774.8	1771.2
37.5°	1821.9	1814.6	1809.4	1800.2	1787.6	1782.1	1776.6	1774.8
40°	1869.0	1861.7	1851.0	1836.6	1821.9	1811.2	1802.0	1798.4
42.5°	1885.5	1876.4	1861.7	1847.3	1829.3	1812.8	1805.7	1802.0
45°	1890.8	1881.9	1861.7	1843.7	1827.4	1812.8	1802.0	1798.4
47.5°	1885.5	1872.7	1854.6	1840.0	1816.4	1798.4	1791.1	1785.8
50°	1898.1	1887.1	1863.6	1831.1	1811.2	1800.2	1787.6	1785.8
52.5°	1923.5	1903.6	1881.9	1858.3	1820.1	1798.4	1791.1	1782.1
55°	1999.6	1972.4	1934.5	1896.3	1872.7	1838.2	1816.4	1816.4
57.5°	2057.7	2035.8	1986.8	1936.1	1892.6	1867.2	1834.7	1836.6
60°	2041.3	2012.2	1988.7	1937.9	1876.4	1841.8	1829.3	1805.7
61°	2039.4	1999.6	1966.9	1927.1	1874.5	1820.1	1816.4	1785.8
62.5°	2043.1	2007.0	1945.2	1903.6	1863.6	1792.9	1791.1	1762.2
65°	2039.4	2005.1	1974.3	1896.3	1841.8	1812.8	1751.3	1774.8
67.5°	1983.4	1952.5	1896.3	1852.8	1769.3	1733.2	1698.7	1698.7
70°	1894.4	1849.1	1794.7	1740.3	1684.2	1622.5	1591.6	1573.5
72.5°	1745.8	1707.8	1664.3	1606.3	1537.4	1481.1	1452.1	1439.5
75°	1559.1	1517.3	1479.3	1435.9	1363.4	1316.2	1285.4	1276.2
77.5°	1363.4	1327.0	1260.0	1218.4	1169.4	1115.0	1087.8	1076.8
80°	1113.1	1093.3	1046.1	978.9	955.3	888.3	870.3	853.8
82.5°	835.7	814.0	770.5	723.4	694.4	656.2	623.7	620.0
85°	525.8	511.2	484.0	449.7	413.3	391.6	362.5	369.8
87.5°	195.8	186.6	170.4	148.7	132.4	117.8	103.4	108.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)