

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: P197887

Luminaire Tested: **TT-C5-LED-E1-WQ-SG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-SG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7699.8 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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

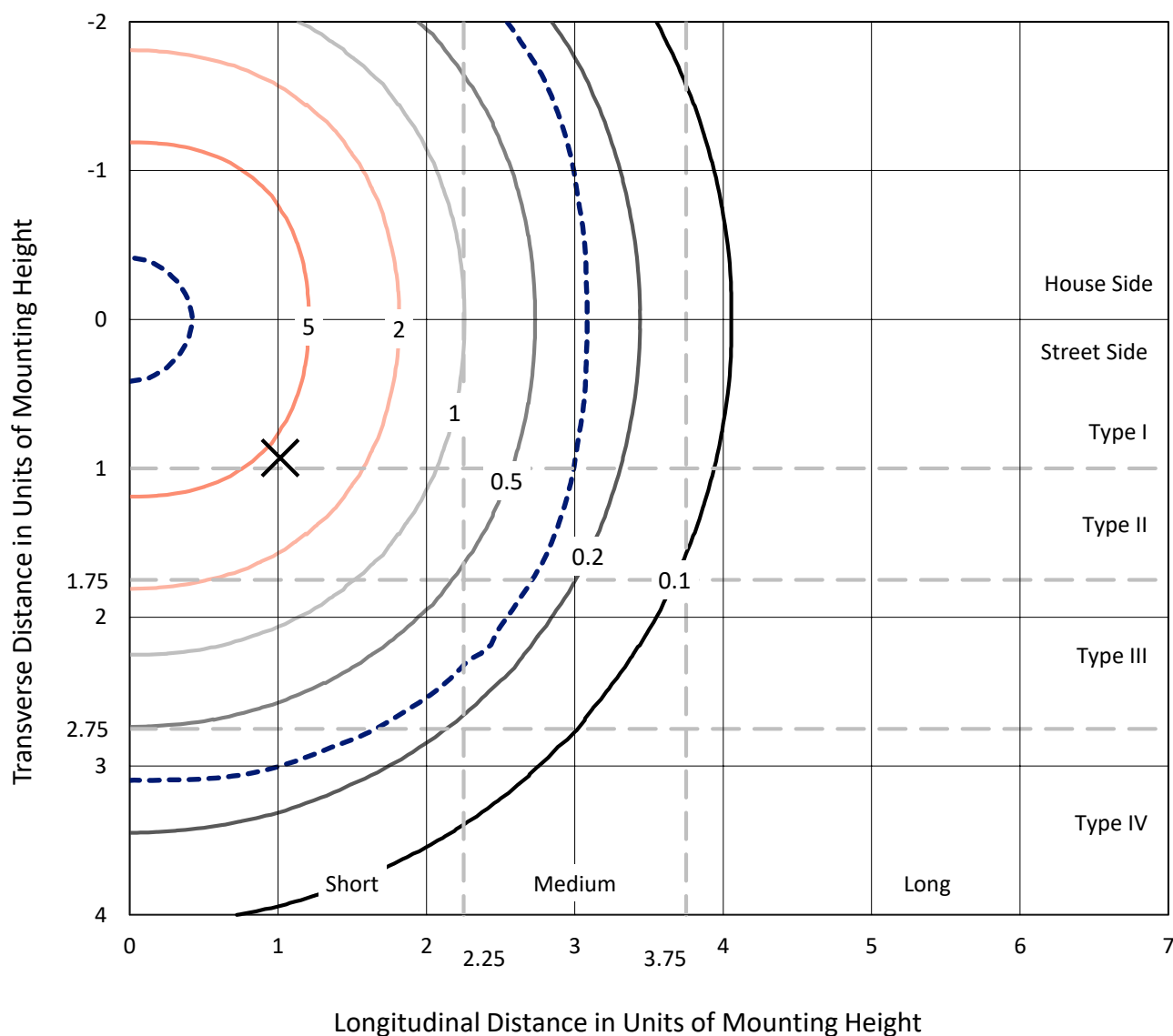


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

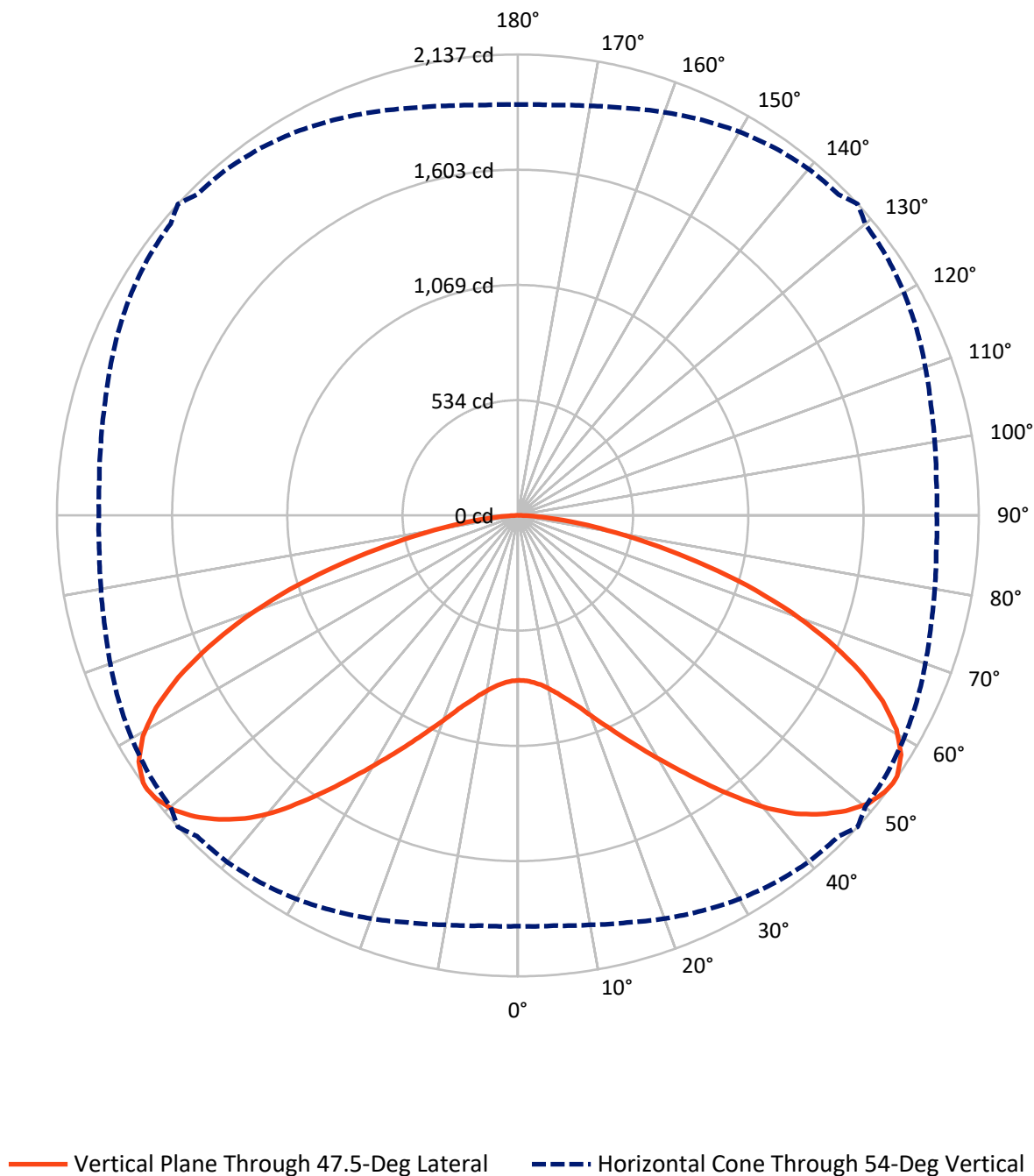


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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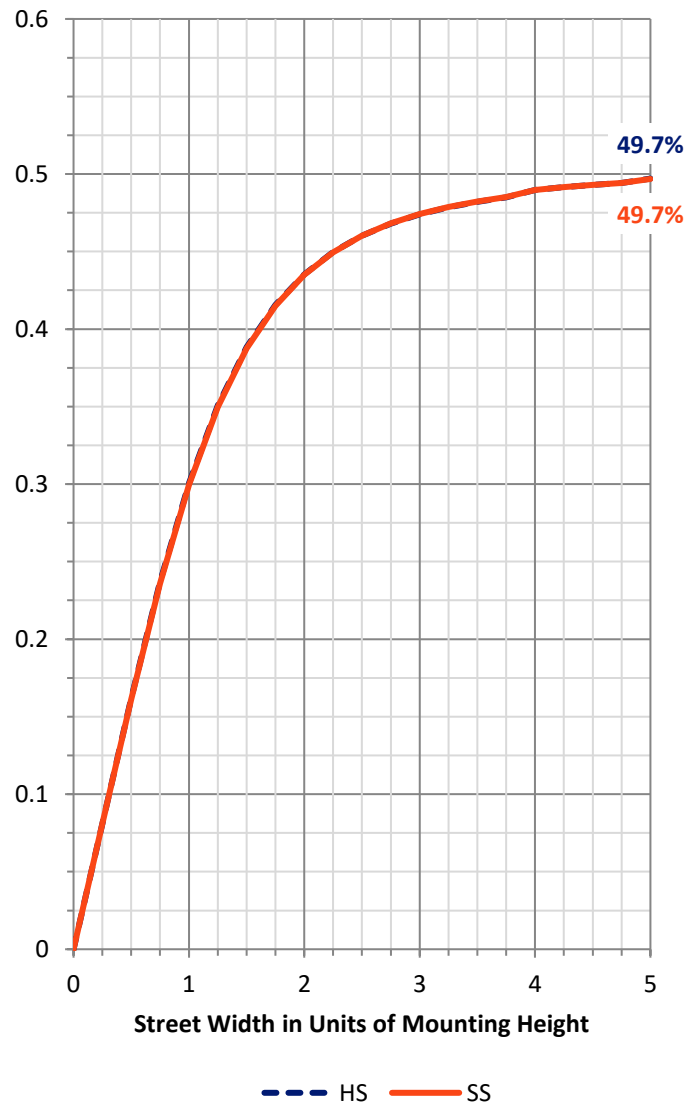
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3849.9	0.0	3849.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3849.9	0.0	3849.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7699.8	0.0	7699.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.0
10°-20°	255.9	3.3
20°-30°	526.8	6.8
30°-40°	942.1	12.2
40°-50°	1445.5	18.8
50°-60°	1782.2	23.1
60°-70°	1612.3	20.9
70°-80°	887.7	11.5
80°-90°	171.7	2.2
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°	7699.8	100.0
0°-180°	7699.8	100.0

Coefficient of Utilization



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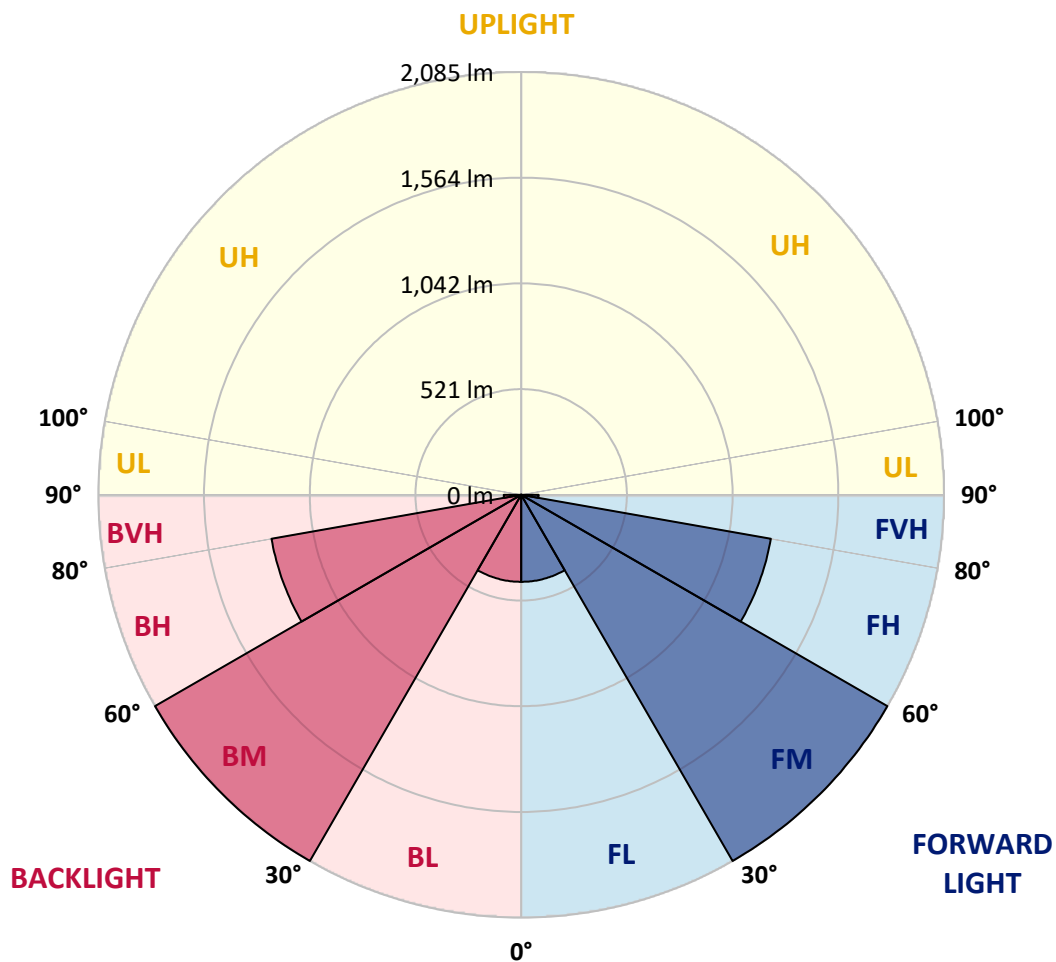
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	429.1	5.6			
FM	(30°-60°)	2084.9	27.1			
FH	(60°-80°)	1250.0	16.2			G1/1800
FVH	(80°-90°)	85.9	1.1			G1/100
BL	(0°-30°)	429.1	5.6	B1/500		
BM	(30°-60°)	2084.9	27.1	B2/2500		
BH	(60°-80°)	1250.0	16.2	B3/2500		G1/1800
BVH	(80°-90°)	85.9	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5
2.5°	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9
5°	777.8	777.8	777.8	779.5	777.8	777.8	777.8	777.8	777.8	777.8	777.8
7.5°	794.5	794.5	794.5	794.5	794.5	794.5	792.8	792.8	794.5	792.8	794.5
10°	817.7	816.1	816.1	817.7	817.7	816.1	817.7	817.7	817.7	817.7	819.4
12.5°	847.6	847.6	849.3	849.3	849.3	851.0	851.0	849.3	851.0	851.0	851.0
15°	887.5	887.5	887.5	887.5	889.2	890.9	889.2	889.2	887.5	887.5	890.9
17.5°	934.1	934.1	934.1	934.1	937.4	937.4	935.7	937.4	939.1	939.1	937.4
20°	990.6	988.9	987.3	988.9	992.2	992.2	993.9	995.6	995.6	995.6	998.9
22.5°	1050.4	1048.8	1052.1	1053.7	1055.4	1057.1	1057.1	1058.7	1062.0	1060.4	1065.4
25°	1116.9	1115.2	1116.9	1120.2	1126.9	1126.9	1128.5	1131.9	1131.9	1130.2	1141.8
27.5°	1191.7	1191.7	1193.3	1200.0	1201.7	1203.3	1208.3	1211.6	1216.6	1216.6	1226.6
30°	1273.1	1271.5	1274.8	1281.4	1286.4	1291.4	1298.1	1306.4	1308.0	1309.7	1319.7
32.5°	1356.2	1356.2	1359.6	1371.2	1379.5	1387.8	1397.8	1406.1	1409.4	1409.4	1424.4
35°	1444.3	1446.0	1454.3	1462.6	1479.2	1489.2	1499.2	1510.8	1517.4	1520.8	1540.7
37.5°	1537.4	1542.4	1549.0	1560.7	1577.3	1593.9	1608.9	1627.1	1637.1	1640.4	1662.0
40°	1625.5	1632.1	1642.1	1658.7	1675.3	1698.6	1716.9	1735.2	1746.8	1753.5	1786.7
42.5°	1711.9	1715.2	1726.9	1745.1	1766.8	1788.4	1813.3	1833.2	1844.9	1854.8	1891.4
45°	1780.1	1783.4	1798.3	1819.9	1844.9	1871.5	1896.4	1919.7	1931.3	1939.6	1976.2
47.5°	1836.6	1843.2	1859.8	1881.4	1906.4	1937.9	1966.2	1989.5	2004.4	2009.4	2047.6
50°	1878.1	1888.1	1903.0	1928.0	1957.9	1989.5	2019.4	2044.3	2060.9	2067.6	2102.5
52.5°	1901.4	1909.7	1926.3	1951.2	1986.1	2017.7	2049.3	2074.2	2092.5	2099.2	2130.7
54°	1904.7	1909.7	1928.0	1954.6	1989.5	2022.7	2054.3	2079.2	2097.5	2104.1	2137.4
55°	1901.4	1904.7	1924.6	1949.6	1986.1	2019.4	2051.0	2075.9	2095.8	2102.5	2134.1
57.5°	1868.1	1873.1	1889.7	1916.3	1949.6	1987.8	2017.7	2042.7	2062.6	2065.9	2095.8
60°	1800.0	1806.6	1821.6	1849.9	1883.1	1916.3	1946.3	1967.9	1986.1	1996.1	2017.7
62.5°	1701.9	1705.3	1720.2	1745.1	1775.1	1810.0	1833.2	1854.8	1871.5	1881.4	1899.7
65°	1562.3	1577.3	1588.9	1608.9	1632.1	1660.4	1690.3	1706.9	1715.2	1731.9	1745.1
67.5°	1406.1	1416.1	1427.7	1446.0	1460.9	1479.2	1507.5	1522.4	1532.4	1544.0	1555.7
70°	1231.6	1228.3	1241.5	1251.5	1268.1	1279.8	1298.1	1306.4	1318.0	1324.7	1344.6
72.5°	1023.8	1028.8	1040.4	1052.1	1057.1	1060.4	1075.3	1080.3	1090.3	1087.0	1111.9
75°	836.0	827.7	831.0	832.7	836.0	832.7	842.7	847.6	852.6	847.6	860.9
77.5°	631.6	621.6	624.9	623.3	623.3	619.9	618.3	618.3	619.9	616.6	624.9
80°	435.5	430.5	432.1	435.5	427.1	428.8	418.8	418.8	418.8	418.8	422.2
82.5°	269.3	262.6	260.9	262.6	262.6	257.6	259.3	252.6	251.0	249.3	264.3
85°	131.3	128.0	131.3	128.0	126.3	126.3	123.0	124.7	121.3	119.7	129.6
87.5°	34.9	33.2	33.2	33.2	31.6	33.2	33.2	33.2	33.2	34.9	39.9
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5	764.5
2.5°	767.9	767.9	767.9	767.9	767.9	767.9	767.9	767.9	766.2
5°	777.8	777.8	777.8	777.8	777.8	777.8	777.8	777.8	777.8
7.5°	794.5	794.5	792.8	792.8	792.8	792.8	792.8	792.8	792.8
10°	817.7	819.4	816.1	816.1	817.7	816.1	816.1	814.4	814.4
12.5°	851.0	849.3	851.0	851.0	849.3	847.6	846.0	844.3	846.0
15°	889.2	887.5	887.5	887.5	885.9	885.9	884.2	885.9	884.2
17.5°	935.7	935.7	937.4	932.4	934.1	930.7	930.7	930.7	929.1
20°	995.6	993.9	992.2	987.3	988.9	985.6	983.9	982.3	980.6
22.5°	1060.4	1057.1	1055.4	1050.4	1052.1	1048.8	1043.8	1040.4	1040.4
25°	1131.9	1128.5	1125.2	1123.5	1121.9	1115.2	1111.9	1106.9	1110.2
27.5°	1216.6	1210.0	1205.0	1198.3	1200.0	1191.7	1188.4	1185.0	1185.0
30°	1308.0	1303.0	1294.7	1289.7	1288.1	1279.8	1273.1	1269.8	1268.1
32.5°	1407.8	1404.4	1399.4	1391.1	1387.8	1374.5	1369.5	1364.5	1362.9
35°	1525.8	1517.4	1512.5	1500.8	1489.2	1480.9	1469.2	1465.9	1462.6
37.5°	1635.5	1635.5	1627.1	1613.8	1597.2	1585.6	1575.6	1569.0	1564.0
40°	1751.8	1748.5	1735.2	1723.5	1706.9	1690.3	1672.0	1665.4	1662.0
42.5°	1854.8	1848.2	1834.9	1819.9	1803.3	1783.4	1763.4	1753.5	1751.8
45°	1941.3	1933.0	1919.7	1899.7	1878.1	1858.2	1839.9	1829.9	1824.9
47.5°	2011.1	2001.1	1984.5	1966.2	1941.3	1918.0	1899.7	1889.7	1883.1
50°	2062.6	2054.3	2036.0	2012.7	1987.8	1961.2	1942.9	1931.3	1926.3
52.5°	2095.8	2084.2	2064.3	2039.3	2011.1	1984.5	1962.9	1949.6	1944.6
54°	2102.5	2089.2	2067.6	2041.0	2011.1	1982.8	1962.9	1947.9	1942.9
55°	2099.2	2085.9	2062.6	2037.7	2006.1	1977.8	1956.2	1941.3	1936.3
57.5°	2064.3	2049.3	2027.7	2001.1	1967.9	1939.6	1919.7	1903.0	1898.1
60°	1989.5	1976.2	1951.2	1928.0	1894.7	1866.5	1844.9	1828.2	1823.3
62.5°	1874.8	1863.2	1841.5	1818.3	1783.4	1758.4	1736.8	1726.9	1713.6
65°	1721.9	1713.6	1692.0	1663.7	1638.8	1613.8	1592.2	1585.6	1577.3
67.5°	1539.1	1527.4	1519.1	1490.9	1470.9	1447.6	1426.0	1412.7	1409.4
70°	1323.0	1318.0	1309.7	1283.1	1271.5	1251.5	1236.6	1224.9	1221.6
72.5°	1090.3	1085.3	1083.7	1070.4	1055.4	1037.1	1030.5	1020.5	1018.8
75°	847.6	844.3	847.6	837.7	832.7	827.7	824.4	824.4	819.4
77.5°	613.3	618.3	619.9	619.9	623.3	623.3	626.6	621.6	616.6
80°	417.2	422.2	420.5	423.8	422.2	433.8	425.5	432.1	425.5
82.5°	251.0	257.6	257.6	257.6	264.3	262.6	262.6	265.9	264.3
85°	123.0	124.7	123.0	121.3	129.6	128.0	128.0	126.3	128.0
87.5°	36.6	33.2	34.9	31.6	34.9	29.9	33.2	33.2	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)