

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: P197888

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197888
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING 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: 7641.7 lumens
Efficiency: N/A
Efficacy: 99.2 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

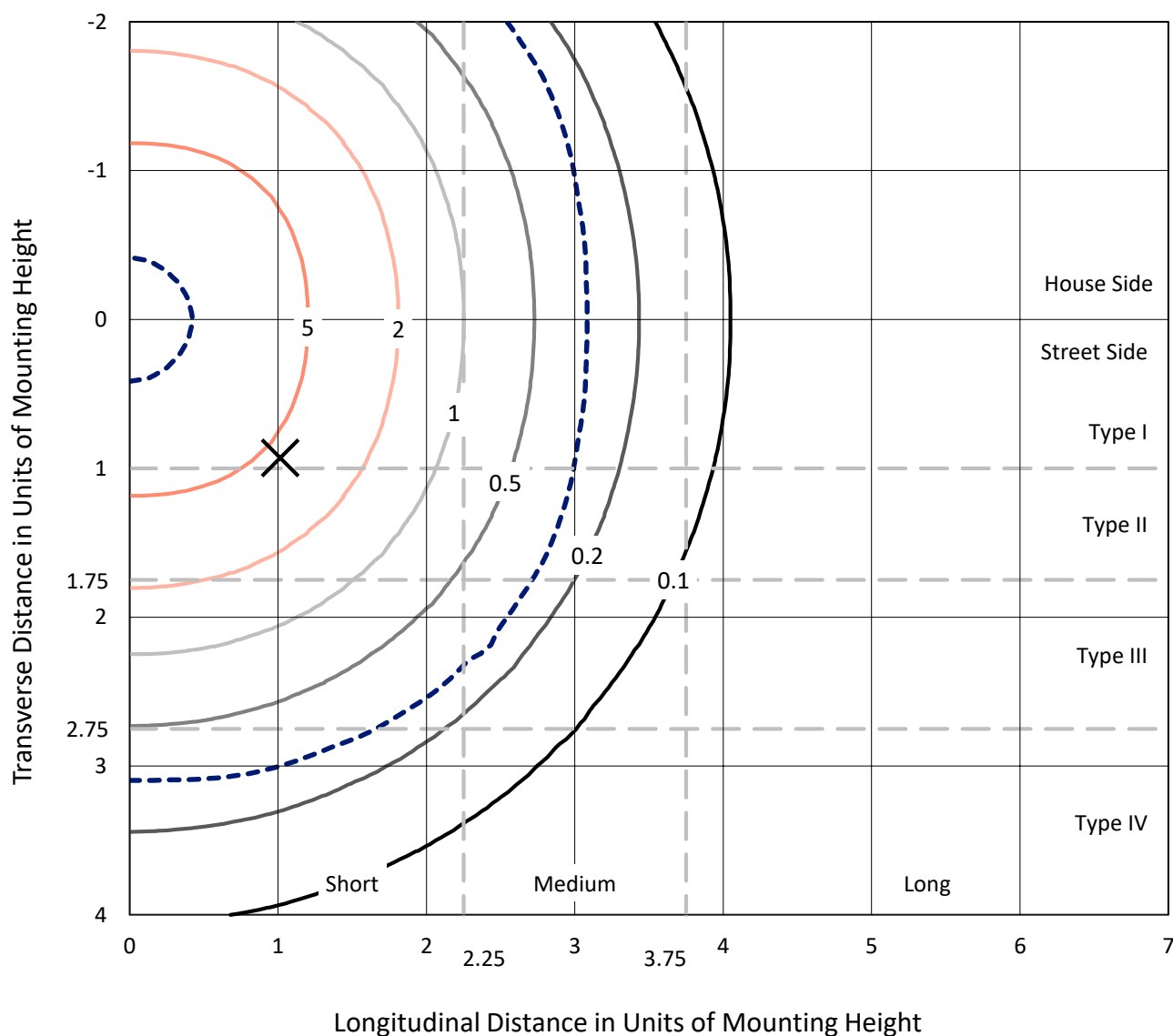


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

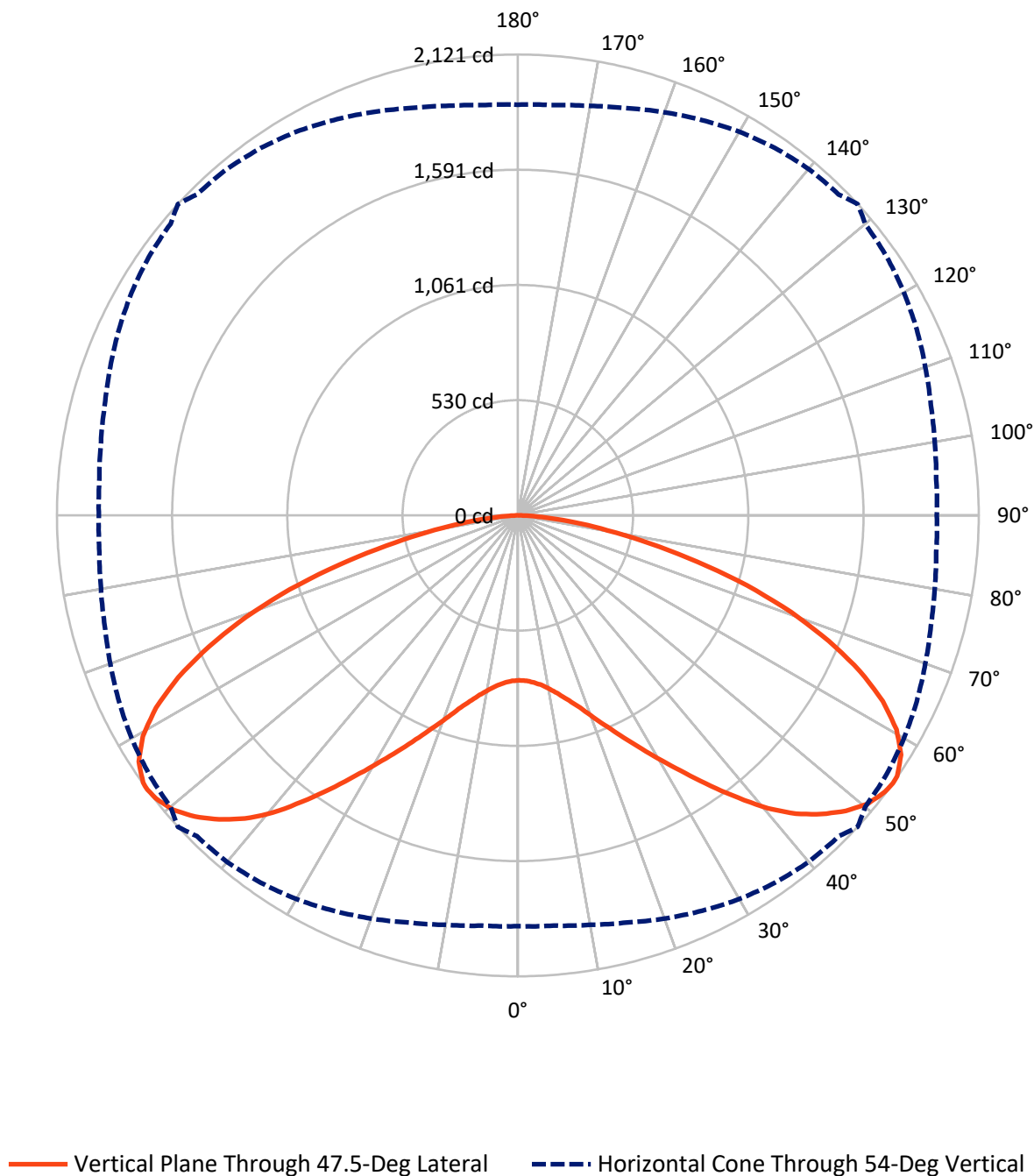


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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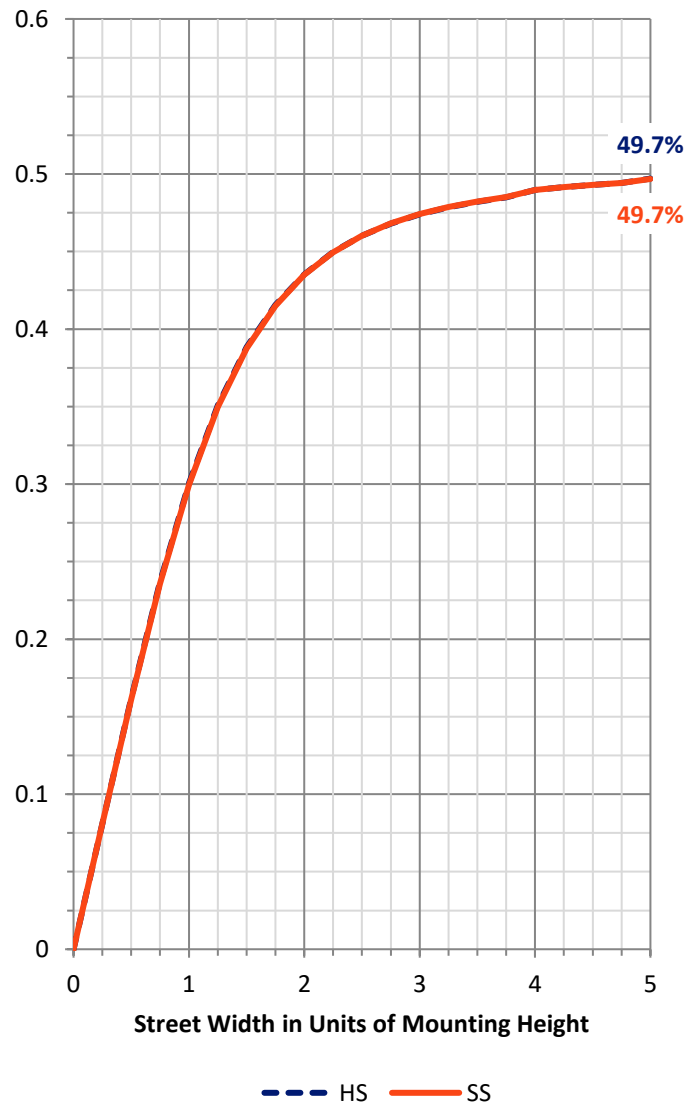
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3820.8	0.0	3820.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3820.8	0.0	3820.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	7641.7	0.0	7641.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.0
10°-20°	253.9	3.3
20°-30°	522.9	6.8
30°-40°	935.0	12.2
40°-50°	1434.6	18.8
50°-60°	1768.7	23.1
60°-70°	1600.2	20.9
70°-80°	881.0	11.5
80°-90°	170.4	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°	7641.7	100.0
0°-180°	7641.7	100.0

Coefficient of Utilization



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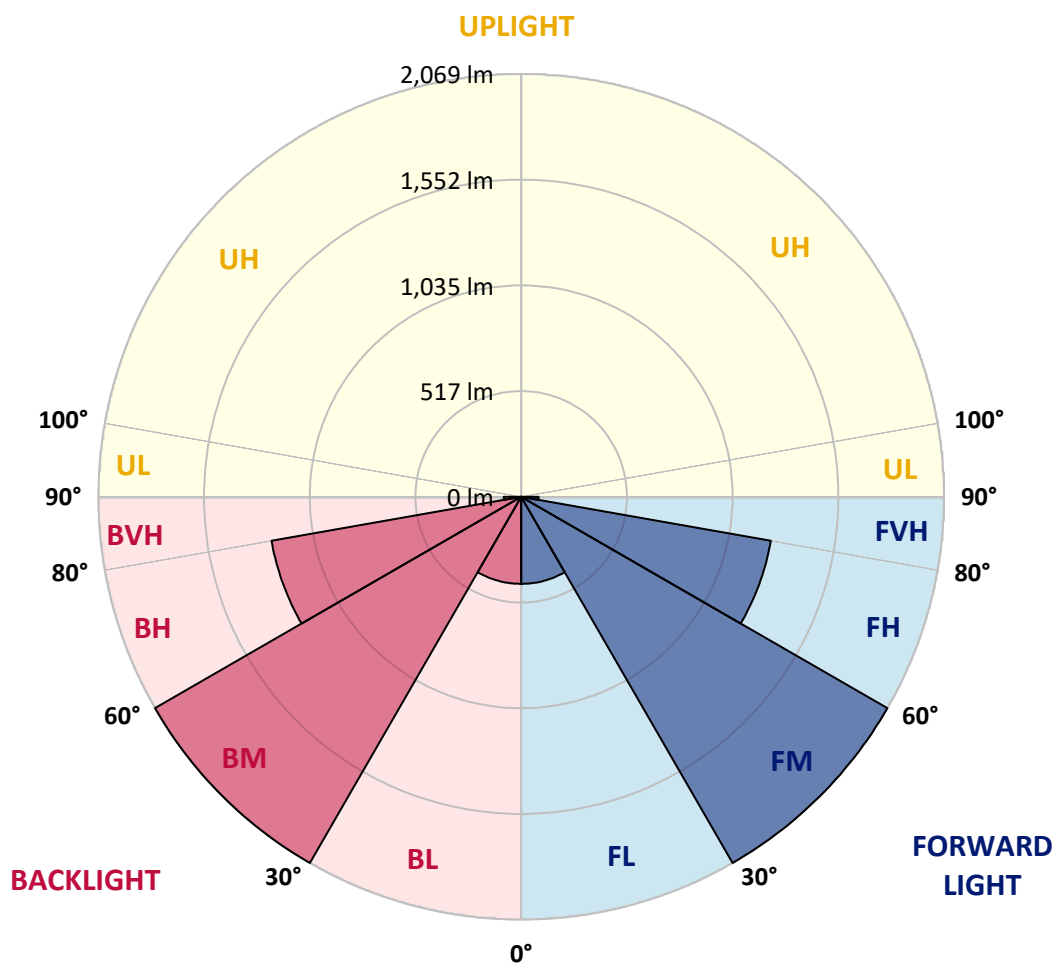
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.8	5.6			
FM	(30°-60°)	2069.2	27.1			
FH	(60°-80°)	1240.6	16.2			G1/1800
FVH	(80°-90°)	85.2	1.1			G1/100
BL	(0°-30°)	425.8	5.6	B1/500		
BM	(30°-60°)	2069.2	27.1	B2/2500		
BH	(60°-80°)	1240.6	16.2	B3/2500		G1/1800
BVH	(80°-90°)	85.2	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°	758.8	758.8	758.8	758.8	758.8	758.8	758.8	758.8	758.8	758.8	758.8
2.5°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1
5°	772.0	772.0	772.0	773.6	772.0	772.0	772.0	772.0	772.0	772.0	772.0
7.5°	788.5	788.5	788.5	788.5	788.5	788.5	786.8	786.8	788.5	786.8	788.5
10°	811.6	809.9	809.9	811.6	811.6	809.9	811.6	811.6	811.6	811.6	813.2
12.5°	841.2	841.2	842.9	842.9	842.9	844.5	844.5	842.9	844.5	844.5	844.5
15°	880.8	880.8	880.8	880.8	882.5	884.1	882.5	882.5	880.8	880.8	884.1
17.5°	927.0	927.0	927.0	927.0	930.3	930.3	928.7	930.3	932.0	932.0	930.3
20°	983.1	981.4	979.8	981.4	984.7	984.7	986.4	988.0	988.0	988.0	991.3
22.5°	1042.5	1040.8	1044.1	1045.8	1047.4	1049.1	1049.1	1050.7	1054.0	1052.4	1057.3
25°	1108.5	1106.8	1108.5	1111.8	1118.4	1118.4	1120.0	1123.3	1123.3	1121.7	1133.2
27.5°	1182.7	1182.7	1184.3	1190.9	1192.6	1194.2	1199.2	1202.5	1207.4	1207.4	1217.3
30°	1263.5	1261.9	1265.2	1271.8	1276.7	1281.7	1288.3	1296.5	1298.2	1299.8	1309.7
32.5°	1346.0	1346.0	1349.3	1360.8	1369.1	1377.3	1387.2	1395.5	1398.8	1398.8	1413.6
35°	1433.4	1435.1	1443.3	1451.6	1468.1	1477.9	1487.8	1499.4	1506.0	1509.3	1529.1
37.5°	1525.8	1530.7	1537.3	1548.9	1565.4	1581.9	1596.7	1614.9	1624.8	1628.1	1649.5
40°	1613.2	1619.8	1629.7	1646.2	1662.7	1685.8	1703.9	1722.1	1733.6	1740.2	1773.2
42.5°	1699.0	1702.3	1713.8	1732.0	1753.4	1774.9	1799.6	1819.4	1830.9	1840.8	1877.1
45°	1766.6	1769.9	1784.8	1806.2	1830.9	1857.3	1882.1	1905.2	1916.7	1925.0	1961.3
47.5°	1822.7	1829.3	1845.8	1867.2	1892.0	1923.3	1951.4	1974.4	1989.3	1994.2	2032.2
50°	1863.9	1873.8	1888.7	1913.4	1943.1	1974.4	2004.1	2028.9	2045.4	2052.0	2086.6
52.5°	1887.0	1895.3	1911.8	1936.5	1971.1	2002.5	2033.8	2058.6	2076.7	2083.3	2114.7
54°	1890.3	1895.3	1913.4	1939.8	1974.4	2007.4	2038.8	2063.5	2081.7	2088.3	2121.3
55°	1887.0	1890.3	1910.1	1934.9	1971.1	2004.1	2035.5	2060.2	2080.0	2086.6	2118.0
57.5°	1854.0	1859.0	1875.5	1901.9	1934.9	1972.8	2002.5	2027.2	2047.0	2050.3	2080.0
60°	1786.4	1793.0	1807.8	1835.9	1868.9	1901.9	1931.6	1953.0	1971.1	1981.0	2002.5
62.5°	1689.1	1692.4	1707.2	1732.0	1761.7	1796.3	1819.4	1840.8	1857.3	1867.2	1885.4
65°	1550.5	1565.4	1576.9	1596.7	1619.8	1647.8	1677.5	1694.0	1702.3	1718.8	1732.0
67.5°	1395.5	1405.4	1416.9	1435.1	1449.9	1468.1	1496.1	1510.9	1520.8	1532.4	1543.9
70°	1222.3	1219.0	1232.2	1242.1	1258.6	1270.1	1288.3	1296.5	1308.0	1314.6	1334.4
72.5°	1016.1	1021.0	1032.6	1044.1	1049.1	1052.4	1067.2	1072.2	1082.1	1078.8	1103.5
75°	829.7	821.4	824.7	826.4	829.7	826.4	836.3	841.2	846.2	841.2	854.4
77.5°	626.8	616.9	620.2	618.6	618.6	615.3	613.6	613.6	615.3	612.0	620.2
80°	432.2	427.2	428.9	432.2	423.9	425.6	415.7	415.7	415.7	415.7	419.0
82.5°	267.2	260.6	259.0	260.6	260.6	255.7	257.3	250.7	249.1	247.4	262.3
85°	130.3	127.0	130.3	127.0	125.4	125.4	122.1	123.7	120.4	118.8	128.7
87.5°	34.6	33.0	33.0	33.0	31.3	33.0	33.0	33.0	33.0	34.6	39.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	758.8	758.8	758.8	758.8	758.8	758.8	758.8	758.8	758.8
2.5°	762.1	762.1	762.1	762.1	762.1	762.1	762.1	762.1	760.4
5°	772.0	772.0	772.0	772.0	772.0	772.0	772.0	772.0	772.0
7.5°	788.5	788.5	786.8	786.8	786.8	786.8	786.8	786.8	786.8
10°	811.6	813.2	809.9	809.9	811.6	809.9	809.9	808.3	808.3
12.5°	844.5	842.9	844.5	844.5	842.9	841.2	839.6	837.9	839.6
15°	882.5	880.8	880.8	880.8	879.2	879.2	877.5	879.2	877.5
17.5°	928.7	928.7	930.3	925.4	927.0	923.7	923.7	923.7	922.1
20°	988.0	986.4	984.7	979.8	981.4	978.2	976.5	974.9	973.2
22.5°	1052.4	1049.1	1047.4	1042.5	1044.1	1040.8	1035.9	1032.6	1032.6
25°	1123.3	1120.0	1116.7	1115.1	1113.4	1106.8	1103.5	1098.6	1101.9
27.5°	1207.4	1200.8	1195.9	1189.3	1190.9	1182.7	1179.4	1176.1	1176.1
30°	1298.2	1293.2	1285.0	1280.0	1278.4	1270.1	1263.5	1260.2	1258.6
32.5°	1397.1	1393.8	1388.9	1380.6	1377.3	1364.1	1359.2	1354.2	1352.6
35°	1514.2	1506.0	1501.0	1489.5	1477.9	1469.7	1458.2	1454.9	1451.6
37.5°	1623.1	1623.1	1614.9	1601.7	1585.2	1573.6	1563.7	1557.1	1552.2
40°	1738.6	1735.3	1722.1	1710.5	1694.0	1677.5	1659.4	1652.8	1649.5
42.5°	1840.8	1834.2	1821.0	1806.2	1789.7	1769.9	1750.1	1740.2	1738.6
45°	1926.6	1918.4	1905.2	1885.4	1863.9	1844.1	1826.0	1816.1	1811.1
47.5°	1995.9	1986.0	1969.5	1951.4	1926.6	1903.5	1885.4	1875.5	1868.9
50°	2047.0	2038.8	2020.6	1997.5	1972.8	1946.4	1928.3	1916.7	1911.8
52.5°	2080.0	2068.5	2048.7	2023.9	1995.9	1969.5	1948.1	1934.9	1929.9
54°	2086.6	2073.4	2052.0	2025.6	1995.9	1967.8	1948.1	1933.2	1928.3
55°	2083.3	2070.1	2047.0	2022.3	1990.9	1962.9	1941.5	1926.6	1921.7
57.5°	2048.7	2033.8	2012.4	1986.0	1953.0	1925.0	1905.2	1888.7	1883.7
60°	1974.4	1961.3	1936.5	1913.4	1880.4	1852.4	1830.9	1814.4	1809.5
62.5°	1860.6	1849.1	1827.6	1804.5	1769.9	1745.2	1723.7	1713.8	1700.6
65°	1708.9	1700.6	1679.2	1651.1	1626.4	1601.7	1580.2	1573.6	1565.4
67.5°	1527.4	1515.9	1507.6	1479.6	1459.8	1436.7	1415.3	1402.1	1398.8
70°	1313.0	1308.0	1299.8	1273.4	1261.9	1242.1	1227.2	1215.7	1212.4
72.5°	1082.1	1077.1	1075.5	1062.3	1047.4	1029.3	1022.7	1012.8	1011.1
75°	841.2	837.9	841.2	831.3	826.4	821.4	818.1	818.1	813.2
77.5°	608.7	613.6	615.3	615.3	618.6	618.6	621.9	616.9	612.0
80°	414.0	419.0	417.3	420.6	419.0	430.5	422.3	428.9	422.3
82.5°	249.1	255.7	255.7	255.7	262.3	260.6	260.6	263.9	262.3
85°	122.1	123.7	122.1	120.4	128.7	127.0	127.0	125.4	127.0
87.5°	36.3	33.0	34.6	31.3	34.6	29.7	33.0	33.0	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)