

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: P197814

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197814
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE 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: 7753.2 lumens
Efficiency: N/A
Efficacy: 100.7 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

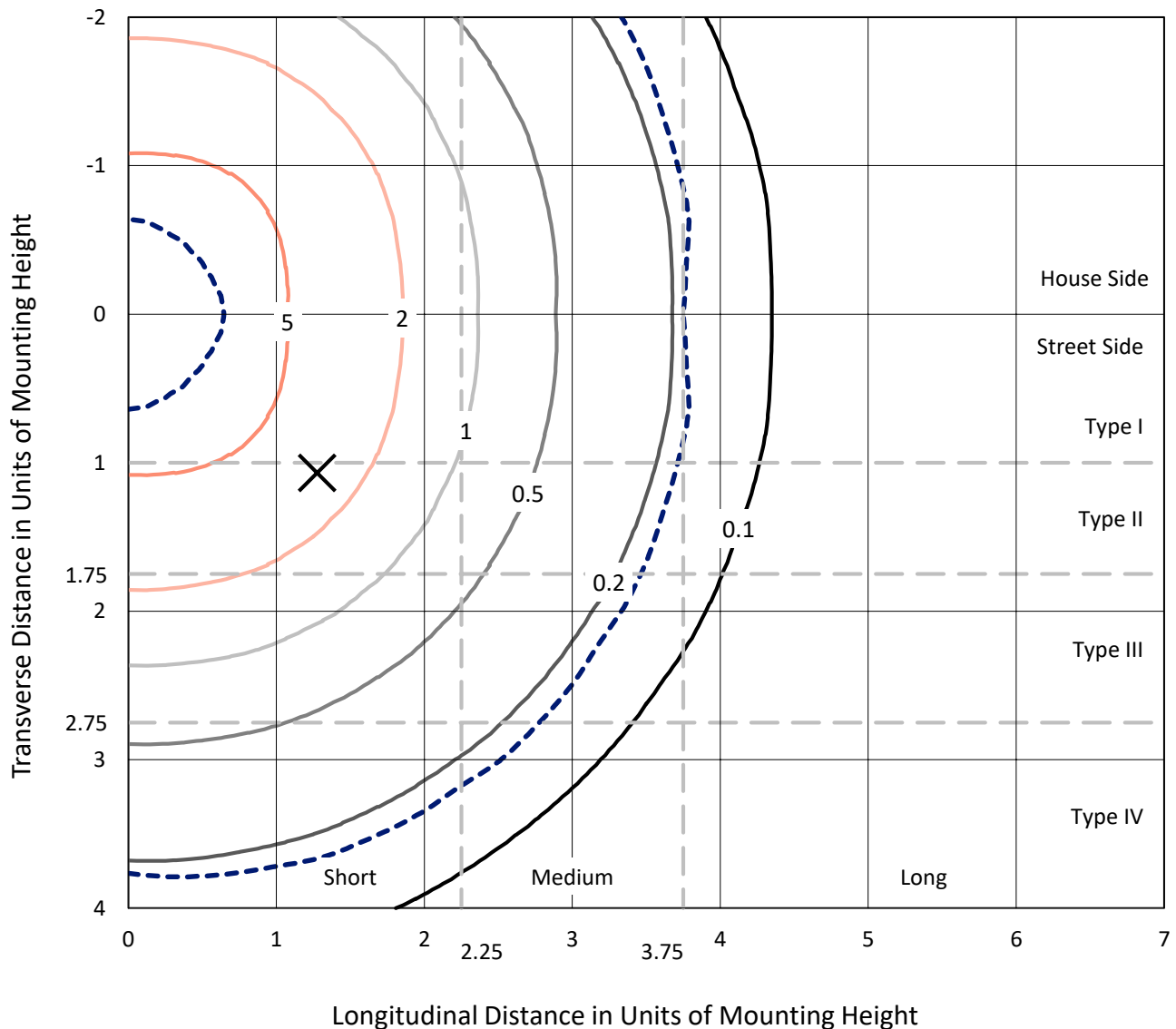


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

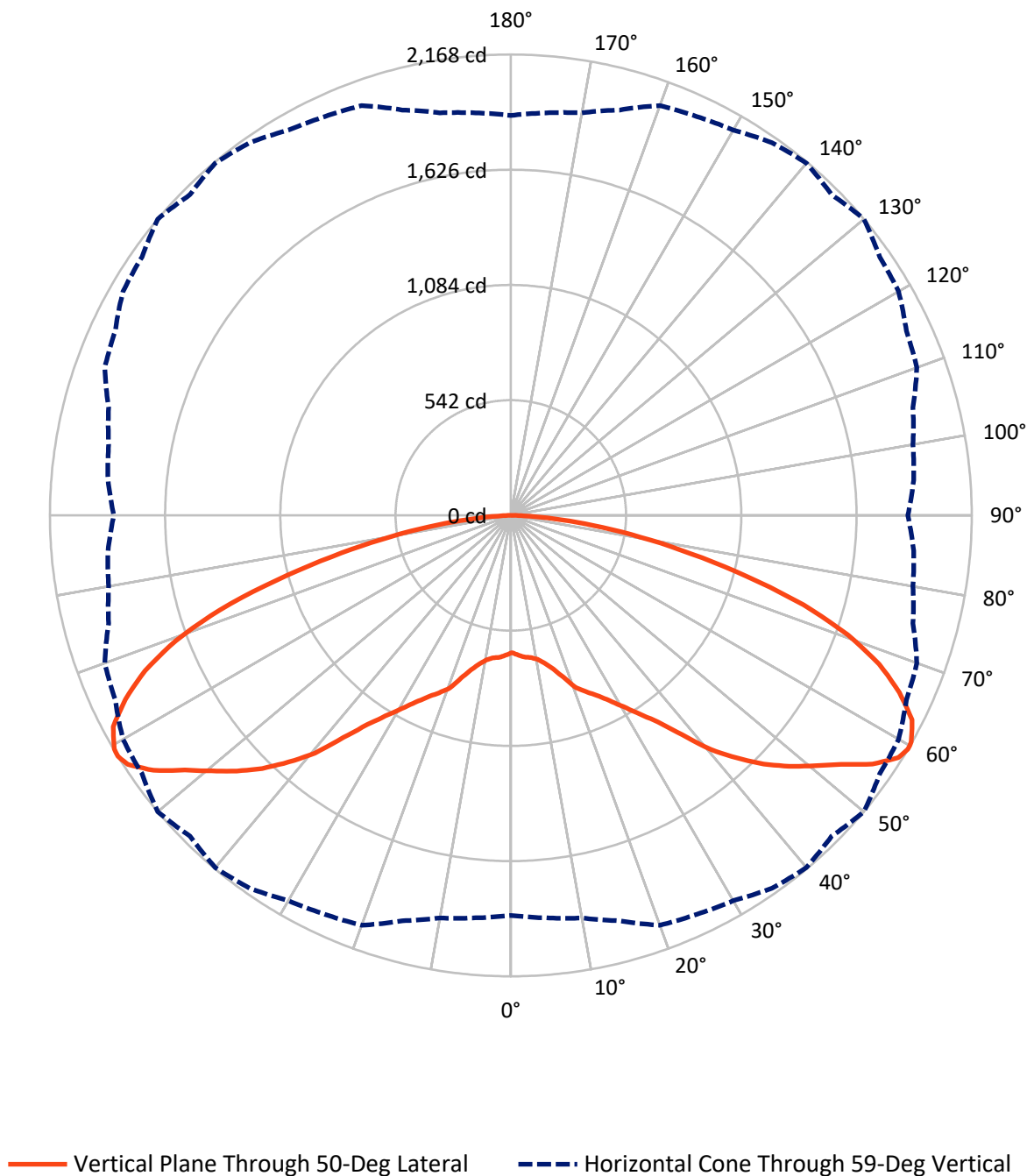


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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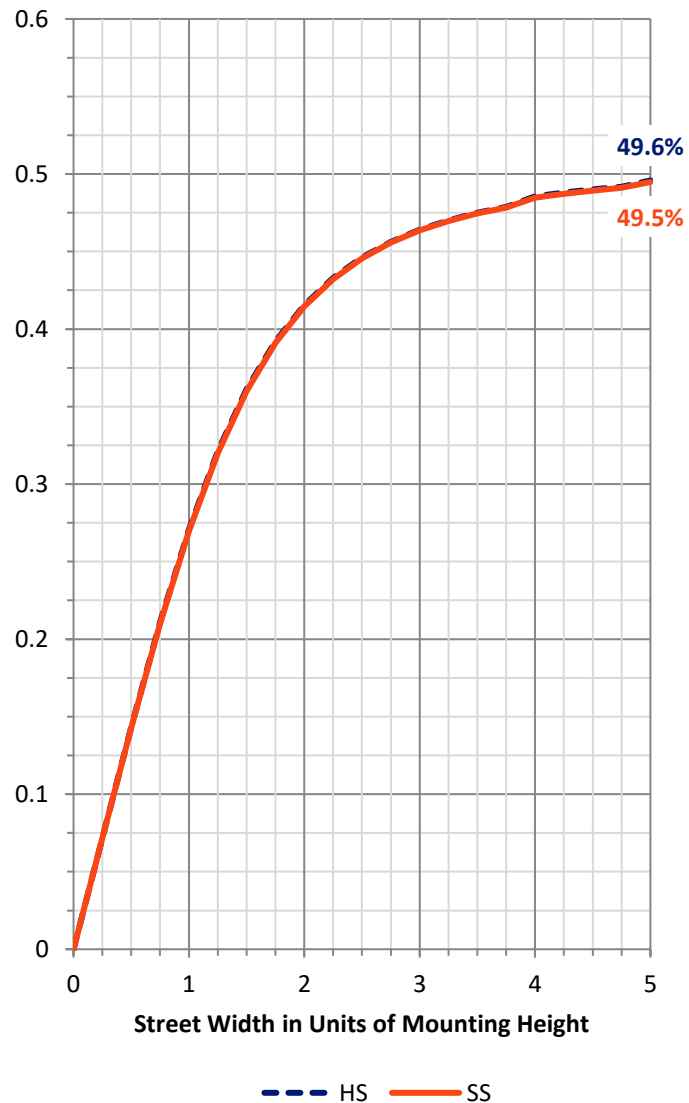
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3876.6	0.0	3876.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3876.6	0.0	3876.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	7753.2	0.0	7753.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	0.8
10°-20°	216.5	2.8
20°-30°	435.8	5.6
30°-40°	749.9	9.7
40°-50°	1238.0	16.0
50°-60°	1743.3	22.5
60°-70°	1865.0	24.1
70°-80°	1184.6	15.3
80°-90°	256.0	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°	7753.2	100.0
0°-180°	7753.2	100.0

Coefficient of Utilization



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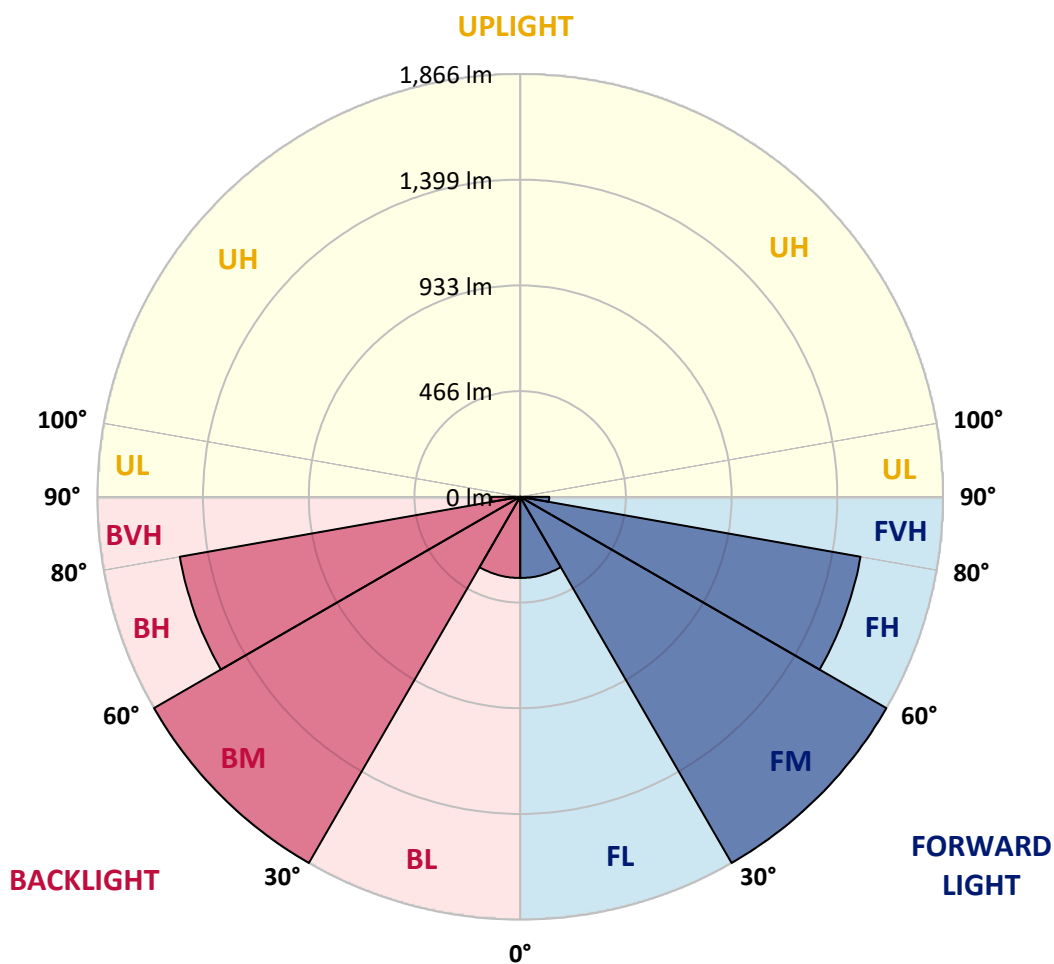
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.2	4.6			
FM	(30°-60°)	1865.6	24.1			
FH	(60°-80°)	1524.8	19.7			G1/1800
FVH	(80°-90°)	128.0	1.7			G2/225
BL	(0°-30°)	358.2	4.6	B1/500		
BM	(30°-60°)	1865.6	24.1	B2/2500		
BH	(60°-80°)	1524.8	19.7	B3/2500		G1/1800
BVH	(80°-90°)	128.0	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°	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3
2.5°	659.0	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
5°	662.4	662.4	664.1	664.1	665.9	665.9	665.9	667.6	667.6	667.6	669.3
7.5°	669.3	667.6	669.3	669.3	669.3	671.0	671.0	671.0	672.7	674.4	674.4
10°	691.6	689.9	691.6	691.6	691.6	688.2	688.2	689.9	688.2	688.2	688.2
12.5°	717.3	717.3	719.1	720.8	720.8	719.1	717.3	715.6	713.9	713.9	713.9
15°	741.4	743.1	744.8	748.2	749.9	749.9	751.7	753.4	751.7	751.7	749.9
17.5°	779.1	782.6	784.3	786.0	786.0	786.0	789.4	794.6	799.7	803.1	799.7
20°	842.6	844.3	847.8	847.8	846.1	847.8	851.2	852.9	856.3	859.8	861.5
22.5°	885.5	889.0	894.1	894.1	892.4	894.1	897.5	897.5	894.1	895.8	899.3
25°	921.6	923.3	926.7	928.4	930.1	938.7	945.6	943.9	937.0	938.7	937.0
27.5°	964.5	967.9	971.3	971.3	971.3	976.5	983.3	986.8	991.9	990.2	985.1
30°	1021.1	1026.2	1028.0	1026.2	1029.7	1034.8	1033.1	1036.5	1045.1	1053.7	1043.4
32.5°	1065.7	1070.9	1076.0	1082.9	1094.9	1101.8	1098.3	1100.0	1105.2	1112.1	1112.1
35°	1132.6	1141.2	1144.7	1146.4	1158.4	1172.1	1182.4	1191.0	1189.3	1184.1	1192.7
37.5°	1233.9	1242.5	1245.9	1252.8	1268.2	1271.7	1287.1	1307.7	1314.6	1307.7	1307.7
40°	1342.0	1350.6	1367.8	1383.2	1407.2	1412.4	1431.3	1439.8	1457.0	1458.7	1448.4
42.5°	1431.3	1441.5	1445.0	1470.7	1503.3	1527.4	1547.9	1549.7	1561.7	1572.0	1560.0
45°	1527.4	1535.9	1541.1	1565.1	1582.3	1611.4	1644.1	1657.8	1662.9	1661.2	1668.1
47.5°	1616.6	1628.6	1633.8	1652.6	1673.2	1697.2	1716.1	1755.6	1764.2	1747.0	1762.5
50°	1671.5	1685.2	1697.2	1738.4	1774.5	1793.4	1808.8	1841.4	1860.3	1844.8	1850.0
52.5°	1757.3	1760.7	1771.0	1788.2	1841.4	1904.9	1922.1	1932.4	1959.8	1968.4	1944.4
55°	1874.0	1886.0	1894.6	1916.9	1939.2	1983.8	2059.4	2073.1	2066.2	2107.4	2064.5
57.5°	1891.2	1913.5	1939.2	1989.0	2033.6	2047.3	2092.0	2145.2	2140.0	2145.2	2148.6
59°	1880.9	1899.8	1922.1	1973.5	2050.8	2069.6	2092.0	2140.0	2162.3	2133.1	2167.5
60°	1884.3	1898.0	1910.0	1951.2	2033.6	2076.5	2090.2	2119.4	2162.3	2122.8	2164.0
62.5°	1870.6	1887.7	1901.5	1925.5	1965.0	2025.0	2078.2	2064.5	2126.3	2095.4	2117.7
65°	1796.8	1815.7	1843.1	1877.4	1923.8	1940.9	1994.1	2023.3	2009.6	2043.9	2007.9
67.5°	1673.2	1690.4	1707.5	1748.7	1800.2	1822.5	1836.3	1889.5	1870.6	1910.0	1868.9
70°	1508.5	1527.4	1551.4	1573.7	1620.0	1638.9	1654.3	1678.4	1685.2	1685.2	1681.8
72.5°	1311.1	1326.6	1342.0	1364.3	1391.8	1408.9	1415.8	1421.0	1448.4	1438.1	1439.8
75°	1088.0	1103.5	1110.3	1118.9	1137.8	1136.1	1142.9	1139.5	1156.7	1149.8	1146.4
77.5°	851.2	856.3	875.2	875.2	870.1	878.7	870.1	864.9	861.5	864.9	864.9
80°	590.3	605.8	617.8	626.4	629.8	626.4	628.1	621.2	621.2	616.1	617.8
82.5°	363.8	379.3	384.4	393.0	394.7	394.7	394.7	389.6	391.3	386.1	389.6
85°	178.5	178.5	185.3	193.9	195.6	199.1	199.1	199.1	199.1	199.1	200.8
87.5°	44.6	44.6	48.1	53.2	53.2	54.9	56.6	58.3	58.3	60.1	60.1
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°	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3
2.5°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
5°	669.3	667.6	667.6	665.9	665.9	664.1	664.1	664.1
7.5°	676.2	676.2	674.4	672.7	671.0	671.0	672.7	672.7
10°	689.9	693.3	695.0	695.0	693.3	693.3	691.6	691.6
12.5°	712.2	715.6	719.1	722.5	722.5	720.8	717.3	715.6
15°	746.5	746.5	748.2	749.9	749.9	746.5	739.7	739.7
17.5°	792.9	789.4	784.3	786.0	787.7	786.0	779.1	782.6
20°	856.3	849.5	846.1	842.6	849.5	849.5	839.2	839.2
22.5°	902.7	897.5	889.0	887.2	892.4	895.8	887.2	882.1
25°	942.2	943.9	933.6	928.4	930.1	931.9	919.8	921.6
27.5°	985.1	986.8	981.6	973.0	969.6	974.8	966.2	962.7
30°	1036.5	1034.8	1038.3	1028.0	1019.4	1024.5	1024.5	1015.9
32.5°	1103.5	1098.3	1100.0	1088.0	1077.7	1076.0	1069.1	1058.9
35°	1194.4	1180.7	1170.4	1163.5	1144.7	1141.2	1141.2	1129.2
37.5°	1312.8	1292.2	1273.4	1273.4	1244.2	1235.6	1240.8	1225.3
40°	1445.0	1438.1	1408.9	1403.8	1372.9	1352.3	1352.3	1333.4
42.5°	1541.1	1549.7	1515.3	1494.7	1474.2	1441.5	1445.0	1421.0
45°	1645.8	1640.6	1611.4	1575.4	1568.5	1534.2	1537.7	1513.6
47.5°	1745.3	1714.4	1700.7	1664.6	1649.2	1609.7	1621.7	1602.9
50°	1841.4	1807.1	1793.4	1750.4	1729.9	1687.0	1688.7	1654.3
52.5°	1940.9	1910.0	1889.5	1834.5	1798.5	1767.6	1760.7	1745.3
55°	2069.6	2037.0	1987.3	1935.8	1908.3	1863.7	1868.9	1844.8
57.5°	2119.4	2098.8	2045.6	2014.7	1963.2	1918.6	1908.3	1865.4
59°	2117.7	2105.7	2052.5	2031.9	1958.1	1920.3	1901.5	1867.1
60°	2105.7	2102.3	2049.1	2023.3	1946.1	1911.8	1894.6	1872.3
62.5°	2069.6	2067.9	2007.9	1977.0	1913.5	1886.0	1875.7	1846.6
65°	2016.4	1987.3	1940.9	1920.3	1855.1	1834.5	1805.4	1776.2
67.5°	1889.5	1824.2	1817.4	1791.6	1735.0	1709.3	1690.4	1662.9
70°	1680.1	1637.2	1637.2	1604.6	1565.1	1553.1	1527.4	1496.5
72.5°	1419.2	1408.9	1414.1	1376.3	1357.5	1350.6	1328.3	1300.8
75°	1134.4	1136.1	1130.9	1122.3	1117.2	1118.9	1094.9	1082.9
77.5°	859.8	875.2	871.8	859.8	871.8	870.1	849.5	844.3
80°	612.7	619.5	623.0	616.1	623.0	617.8	600.6	598.9
82.5°	386.1	387.8	391.3	384.4	386.1	384.4	372.4	372.4
85°	197.4	204.2	195.6	188.8	188.8	181.9	178.5	180.2
87.5°	58.3	61.8	54.9	54.9	51.5	48.1	46.3	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)