

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: P197862

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8488.3 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-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

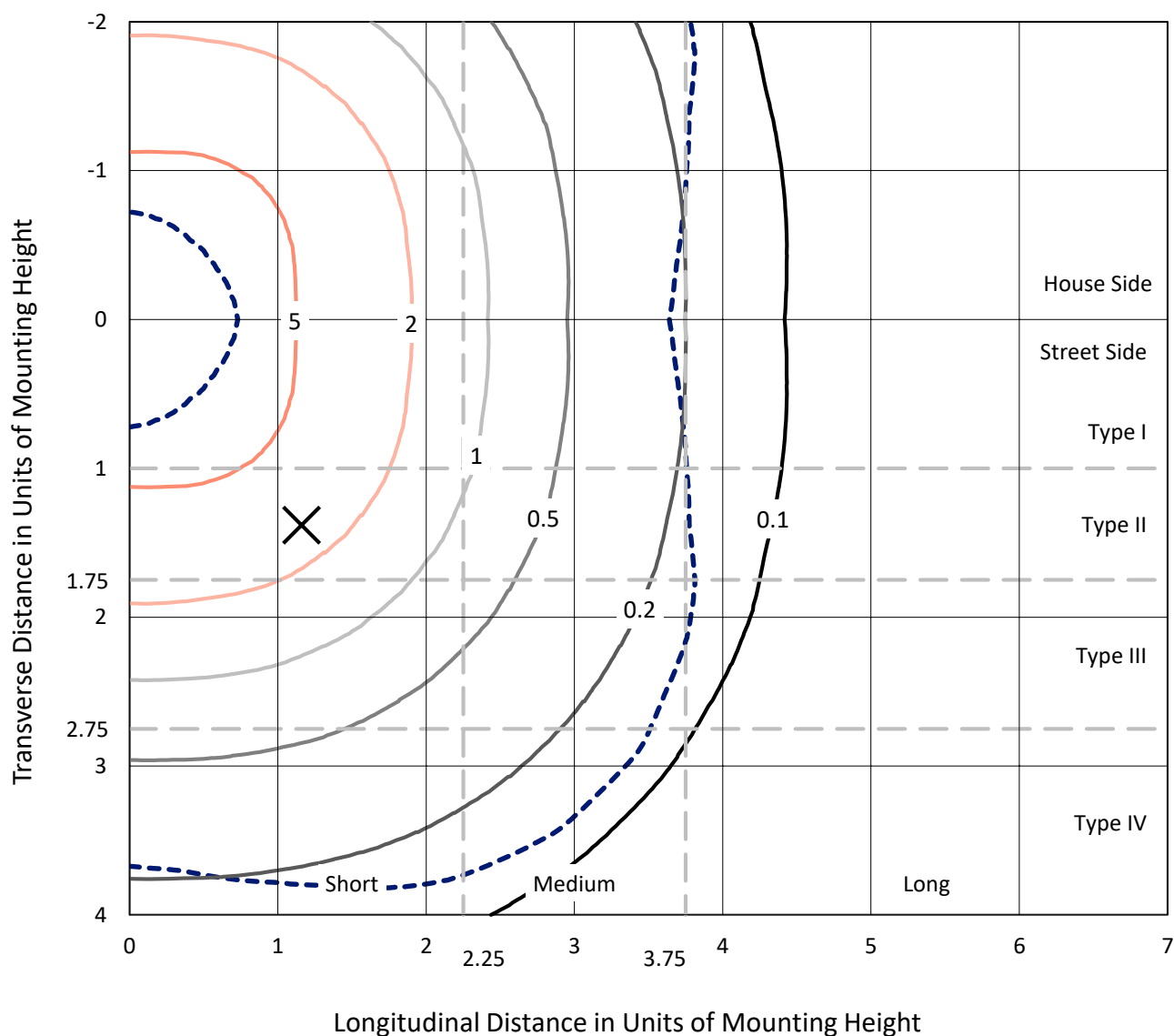


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

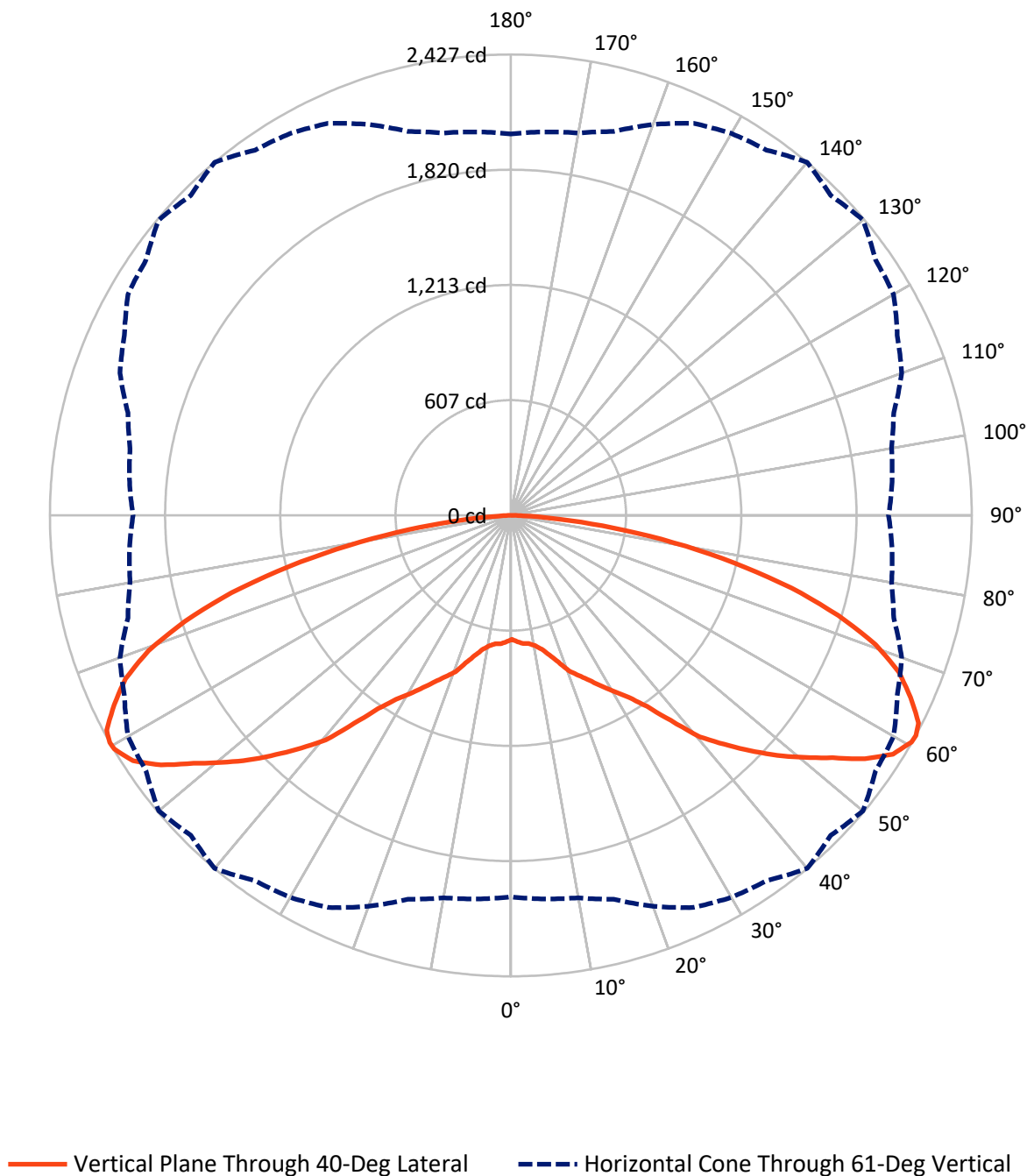


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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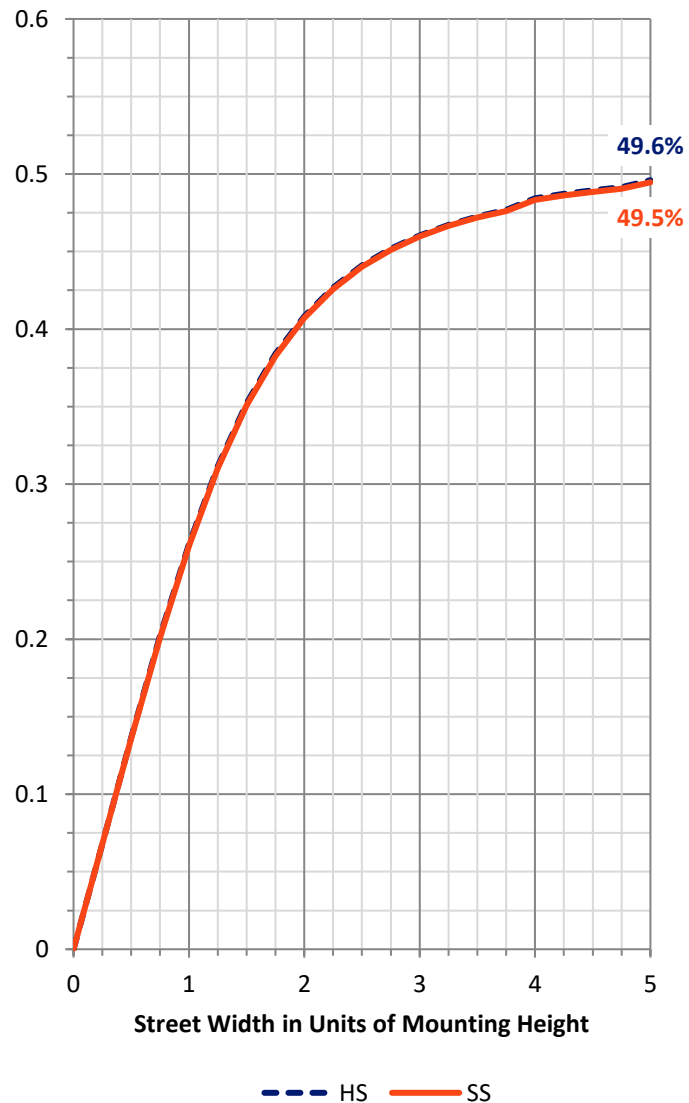
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4244.2	0.0	4244.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4244.2	0.0	4244.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8488.3	0.0	8488.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	0.8
10°-20°	219.5	2.6
20°-30°	445.1	5.2
30°-40°	774.1	9.1
40°-50°	1303.1	15.4
50°-60°	1877.3	22.1
60°-70°	2083.2	24.5
70°-80°	1414.7	16.7
80°-90°	306.4	3.6
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°	8488.3	100.0
0°-180°	8488.3	100.0

Coefficient of Utilization



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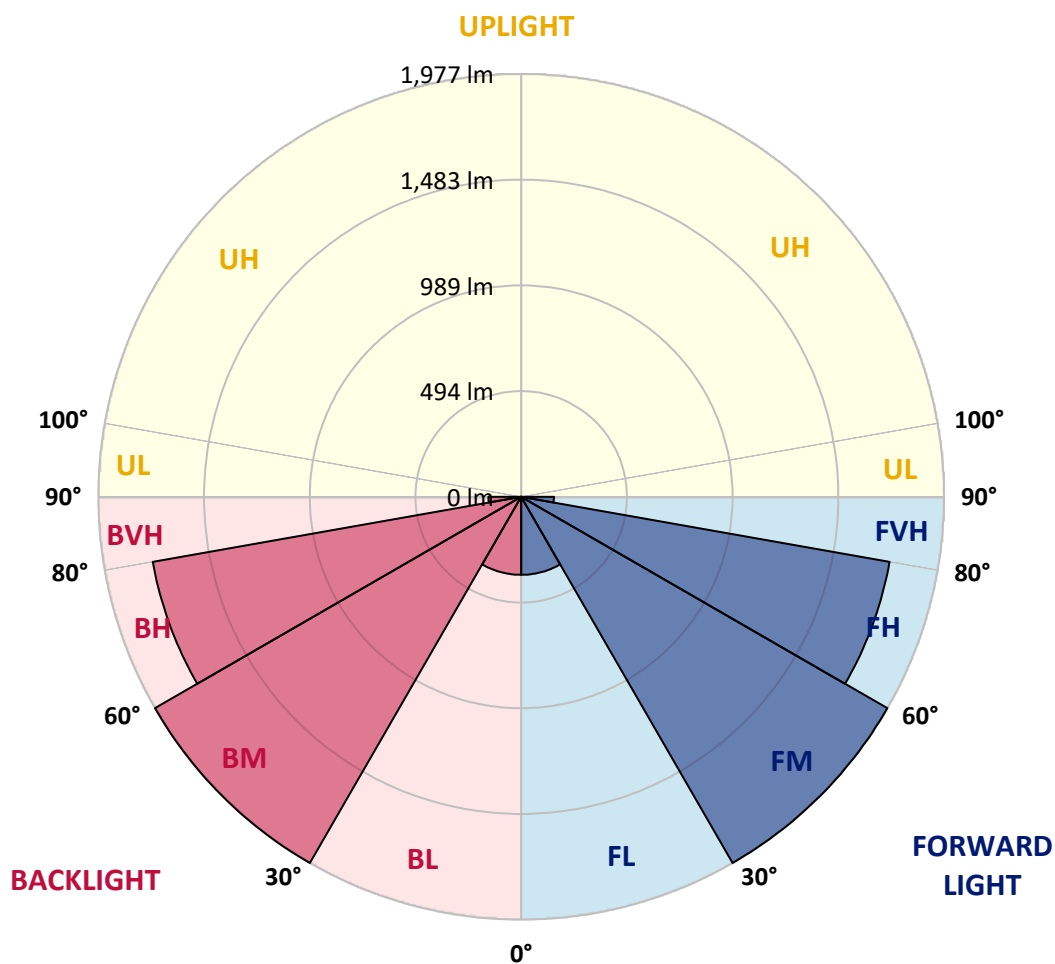
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.8	4.3			
FM	(30°-60°)	1977.2	23.3			
FH	(60°-80°)	1749.0	20.6			G1/1800
FVH	(80°-90°)	153.2	1.8			G2/225
BL	(0°-30°)	364.8	4.3	B1/500		
BM	(30°-60°)	1977.2	23.3	B2/2500		
BH	(60°-80°)	1749.0	20.6	B3/2500		G1/1800
BVH	(80°-90°)	153.2	1.8			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°	652.1	652.1	652.1	652.1	652.1	652.1	652.1	652.1	652.1	652.1	652.1
2.5°	667.6	667.6	667.6	667.6	667.6	665.9	667.6	665.9	665.9	665.9	665.9
5°	672.7	674.4	674.4	674.4	674.4	676.2	676.2	677.9	677.9	677.9	677.9
7.5°	677.9	677.9	677.9	677.9	677.9	677.9	679.6	679.6	681.3	681.3	683.0
10°	698.5	698.5	700.2	700.2	698.5	698.5	698.5	696.7	696.7	695.0	695.0
12.5°	727.6	727.6	729.4	731.1	731.1	729.4	727.6	724.2	722.5	722.5	722.5
15°	749.9	751.7	755.1	758.5	760.2	760.2	762.0	762.0	762.0	760.2	758.5
17.5°	792.9	792.9	794.6	796.3	796.3	798.0	801.4	804.9	811.7	813.4	808.3
20°	854.6	856.3	861.5	859.8	859.8	863.2	866.6	868.4	873.5	876.9	876.9
22.5°	901.0	904.4	911.3	911.3	909.5	911.3	914.7	914.7	914.7	913.0	916.4
25°	937.0	940.4	945.6	945.6	949.0	957.6	967.9	966.2	961.0	961.0	959.3
27.5°	985.1	986.8	990.2	990.2	995.4	1000.5	1007.4	1014.2	1017.7	1015.9	1012.5
30°	1045.1	1048.6	1052.0	1046.8	1055.4	1060.6	1064.0	1064.0	1077.7	1084.6	1072.6
32.5°	1089.7	1096.6	1103.5	1108.6	1125.8	1134.4	1129.2	1134.4	1141.2	1148.1	1148.1
35°	1163.5	1170.4	1175.5	1179.0	1196.1	1208.2	1221.9	1235.6	1233.9	1228.7	1239.0
37.5°	1269.9	1276.8	1281.9	1288.8	1311.1	1319.7	1330.0	1359.2	1369.5	1355.7	1362.6
40°	1383.2	1395.2	1412.4	1433.0	1465.6	1475.9	1493.0	1513.6	1532.5	1539.4	1522.2
42.5°	1481.0	1494.7	1498.2	1530.8	1570.3	1601.1	1625.2	1630.3	1647.5	1662.9	1650.9
45°	1585.7	1597.7	1606.3	1633.8	1656.1	1699.0	1738.4	1757.3	1765.9	1764.2	1777.9
47.5°	1683.5	1697.2	1709.3	1738.4	1765.9	1801.9	1827.7	1872.3	1887.7	1867.1	1889.5
50°	1743.6	1760.7	1776.2	1831.1	1879.2	1916.9	1937.5	1975.3	2002.7	1989.0	1994.1
52.5°	1843.1	1850.0	1862.0	1892.9	1956.4	2043.9	2064.5	2085.1	2119.4	2136.6	2105.7
55°	1970.1	1989.0	2006.2	2045.6	2078.2	2143.4	2237.8	2263.6	2261.9	2315.1	2267.0
57.5°	1997.6	2025.0	2059.4	2131.4	2194.9	2232.7	2292.7	2364.8	2371.7	2375.1	2382.0
60°	2001.0	2018.2	2040.5	2100.5	2212.1	2280.7	2315.1	2361.4	2423.2	2378.6	2424.9
61°	2007.9	2026.7	2043.9	2092.0	2189.8	2277.3	2321.9	2347.7	2426.6	2382.0	2419.7
62.5°	1995.9	2018.2	2043.9	2090.2	2155.5	2244.7	2330.5	2330.5	2409.4	2380.3	2400.9
65°	1923.8	1944.4	1994.1	2054.2	2133.1	2179.5	2268.7	2325.4	2313.3	2364.8	2313.3
67.5°	1801.9	1819.1	1862.0	1932.4	2018.2	2083.4	2124.6	2215.5	2203.5	2256.7	2198.4
70°	1630.3	1652.6	1705.8	1753.9	1834.5	1903.2	1958.1	2013.0	2037.0	2031.9	2035.3
72.5°	1424.4	1439.8	1487.9	1541.1	1604.6	1681.8	1731.6	1765.9	1803.6	1801.9	1808.8
75°	1185.8	1199.6	1240.8	1280.2	1342.0	1402.1	1458.7	1494.7	1525.6	1523.9	1517.1
77.5°	914.7	930.1	976.5	1010.8	1040.0	1106.9	1149.8	1173.8	1199.6	1199.6	1203.0
80°	638.4	648.7	684.7	720.8	748.2	780.8	835.8	840.9	870.1	863.2	870.1
82.5°	384.4	391.3	418.7	439.3	458.2	489.1	514.8	525.1	542.3	535.4	545.7
85°	173.3	176.8	193.9	205.9	214.5	231.7	245.4	250.6	259.1	257.4	264.3
87.5°	36.0	39.5	44.6	48.1	49.8	56.6	61.8	61.8	65.2	65.2	66.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	652.1	652.1	652.1	652.1	652.1	652.1	652.1	652.1
2.5°	665.9	667.6	665.9	665.9	665.9	667.6	665.9	667.6
5°	677.9	677.9	677.9	676.2	674.4	674.4	674.4	672.7
7.5°	684.7	684.7	683.0	681.3	679.6	681.3	681.3	681.3
10°	698.5	701.9	703.6	703.6	701.9	701.9	701.9	700.2
12.5°	722.5	724.2	729.4	731.1	732.8	731.1	725.9	724.2
15°	755.1	755.1	756.8	760.2	760.2	753.4	748.2	746.5
17.5°	801.4	799.7	796.3	796.3	798.0	794.6	789.4	789.4
20°	871.8	864.9	861.5	856.3	861.5	861.5	851.2	846.1
22.5°	921.6	914.7	906.1	901.0	907.8	913.0	901.0	894.1
25°	964.5	966.2	952.5	945.6	947.3	950.7	935.3	933.6
27.5°	1009.1	1012.5	1005.7	993.6	990.2	997.1	985.1	981.6
30°	1064.0	1062.3	1065.7	1050.3	1043.4	1048.6	1046.8	1038.3
32.5°	1136.1	1127.5	1130.9	1117.2	1103.5	1103.5	1093.2	1082.9
35°	1235.6	1216.7	1208.2	1199.6	1173.8	1175.5	1167.0	1158.4
37.5°	1366.0	1336.9	1312.8	1318.0	1280.2	1276.8	1271.7	1259.6
40°	1515.3	1501.6	1474.2	1458.7	1419.2	1400.4	1393.5	1371.2
42.5°	1626.9	1630.3	1589.1	1561.7	1530.8	1498.2	1494.7	1472.4
45°	1747.0	1735.0	1697.2	1652.6	1638.9	1599.4	1594.3	1572.0
47.5°	1867.1	1826.0	1803.6	1757.3	1735.0	1685.2	1688.7	1668.1
50°	1980.4	1932.4	1911.8	1856.8	1822.5	1772.8	1760.7	1726.4
52.5°	2100.5	2055.9	2023.3	1953.0	1903.2	1865.4	1844.8	1831.1
55°	2261.9	2217.2	2143.4	2078.2	2037.0	1975.3	1968.4	1944.4
57.5°	2337.4	2304.8	2224.1	2177.8	2104.0	2040.5	2019.9	1971.8
60°	2345.9	2332.2	2246.4	2201.8	2093.7	2042.2	2016.4	1987.3
61°	2344.2	2327.1	2244.7	2189.8	2086.8	2035.3	2014.7	1989.0
62.5°	2337.4	2316.8	2225.8	2169.2	2073.1	2023.3	2006.2	1968.4
65°	2315.1	2258.4	2179.5	2128.0	2023.3	1978.7	1937.5	1899.8
67.5°	2217.2	2110.8	2078.2	2013.0	1906.6	1856.8	1819.1	1786.5
70°	2007.9	1937.5	1903.2	1822.5	1736.7	1695.5	1652.6	1611.4
72.5°	1762.5	1716.1	1687.0	1589.1	1525.6	1484.5	1445.0	1405.5
75°	1487.9	1453.6	1400.4	1326.6	1269.9	1228.7	1192.7	1173.8
77.5°	1168.7	1146.4	1105.2	1031.4	1000.5	964.5	928.4	899.3
80°	840.9	823.7	791.1	737.9	712.2	676.2	650.4	626.4
82.5°	523.4	509.7	490.8	451.3	441.0	418.7	394.7	377.5
85°	250.6	242.0	235.1	209.4	207.7	188.8	180.2	169.9
87.5°	65.2	63.5	60.1	51.5	49.8	44.6	41.2	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)