

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: P197840

Luminaire Tested: **TT-C5-LED-E1-WQ-CG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115513)
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-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8158.2 lumens
Efficiency: N/A
Efficacy: 106.0 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



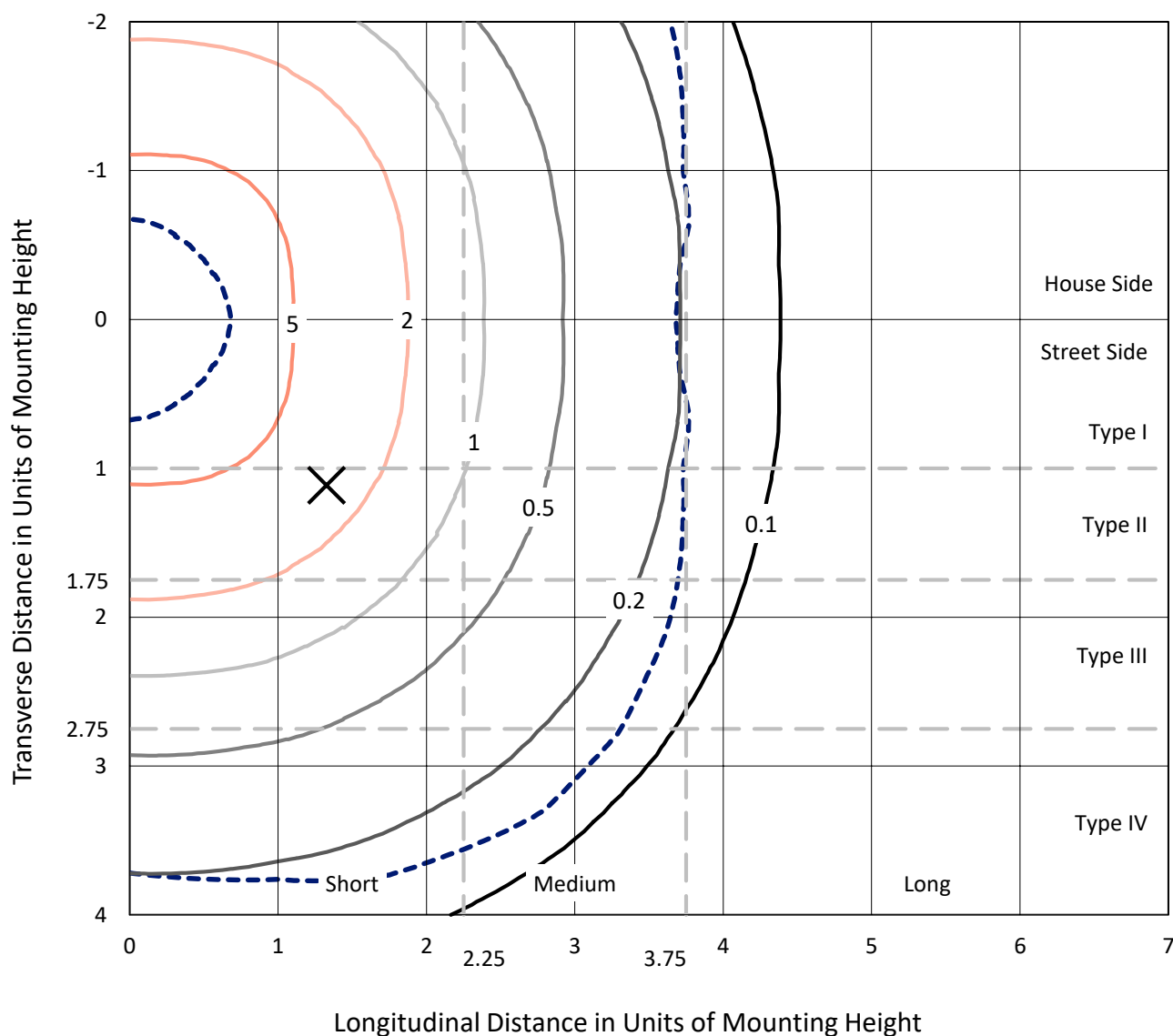
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

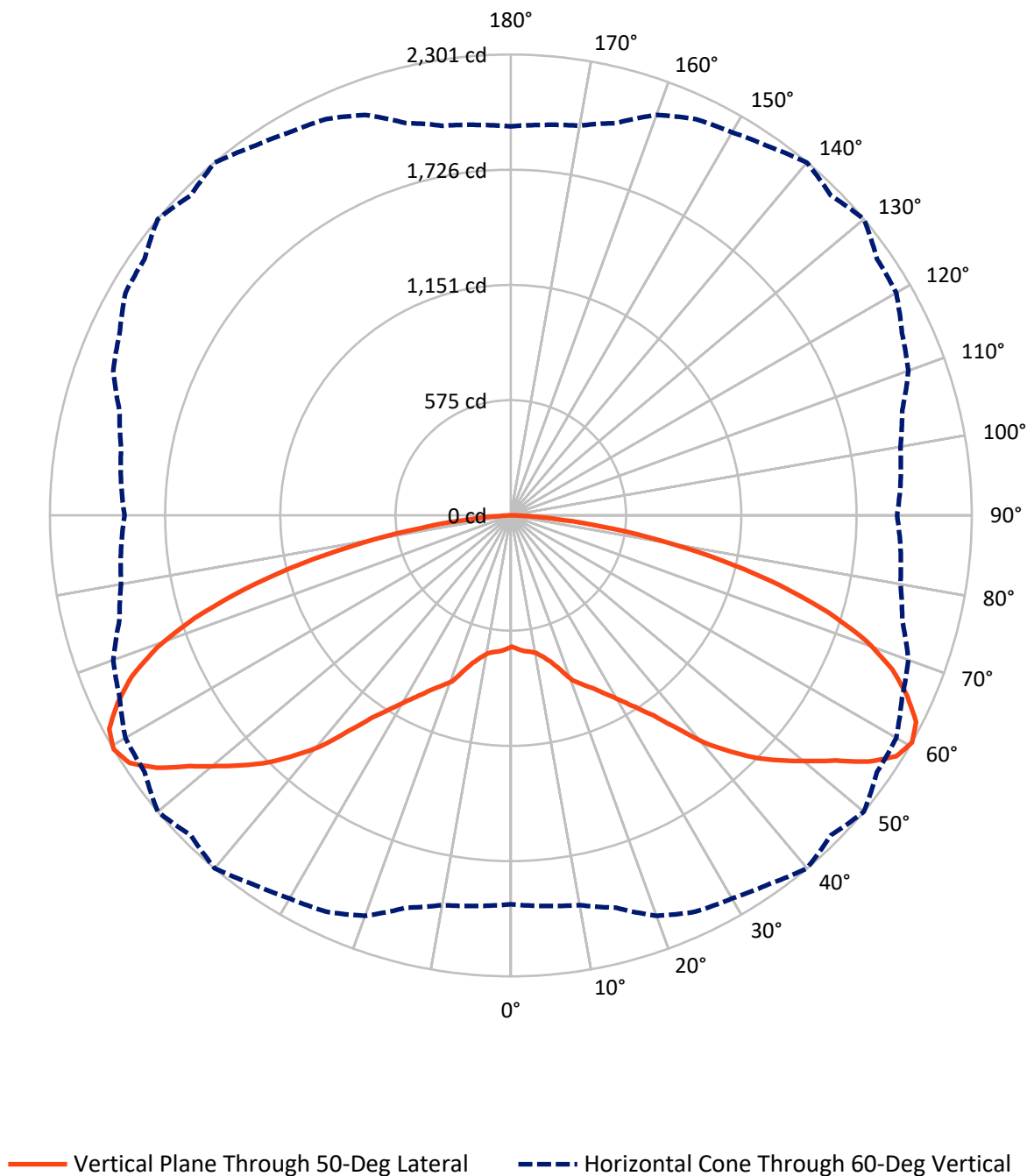


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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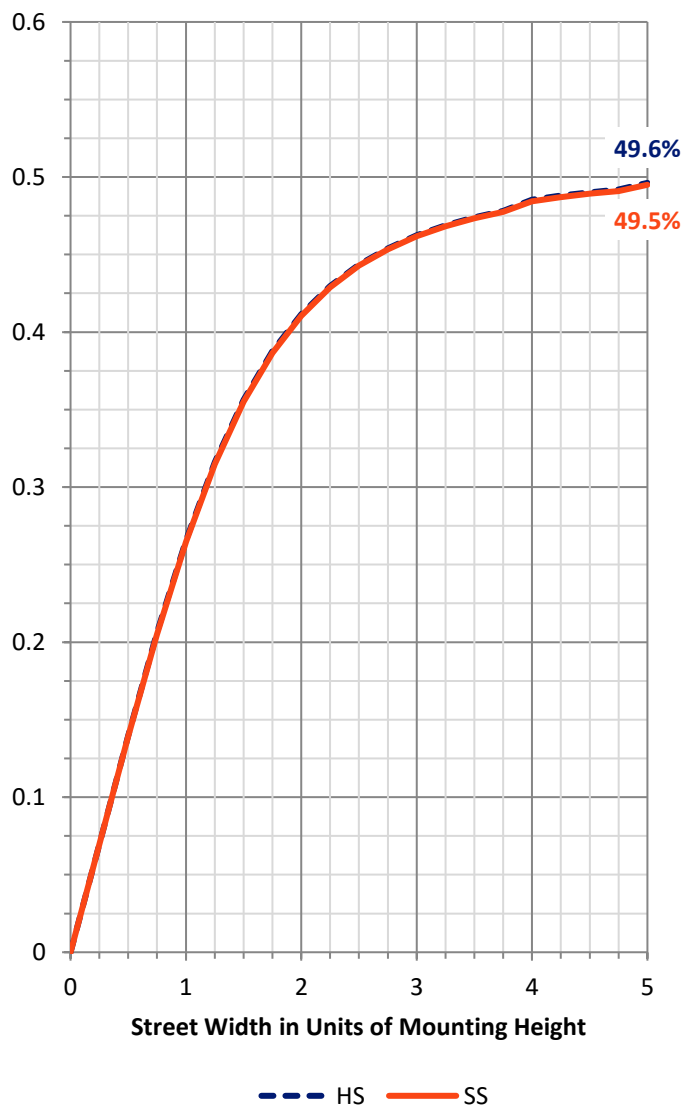
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4079.1	0.0	4079.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4079.1	0.0	4079.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8158.2	0.0	8158.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	0.8
10°-20°	220.1	2.7
20°-30°	444.4	5.4
30°-40°	768.1	9.4
40°-50°	1275.7	15.6
50°-60°	1812.9	22.2
60°-70°	1980.3	24.3
70°-80°	1315.6	16.1
80°-90°	276.1	3.4
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°	8158.2	100.0
0°-180°	8158.2	100.0

Coefficient of Utilization



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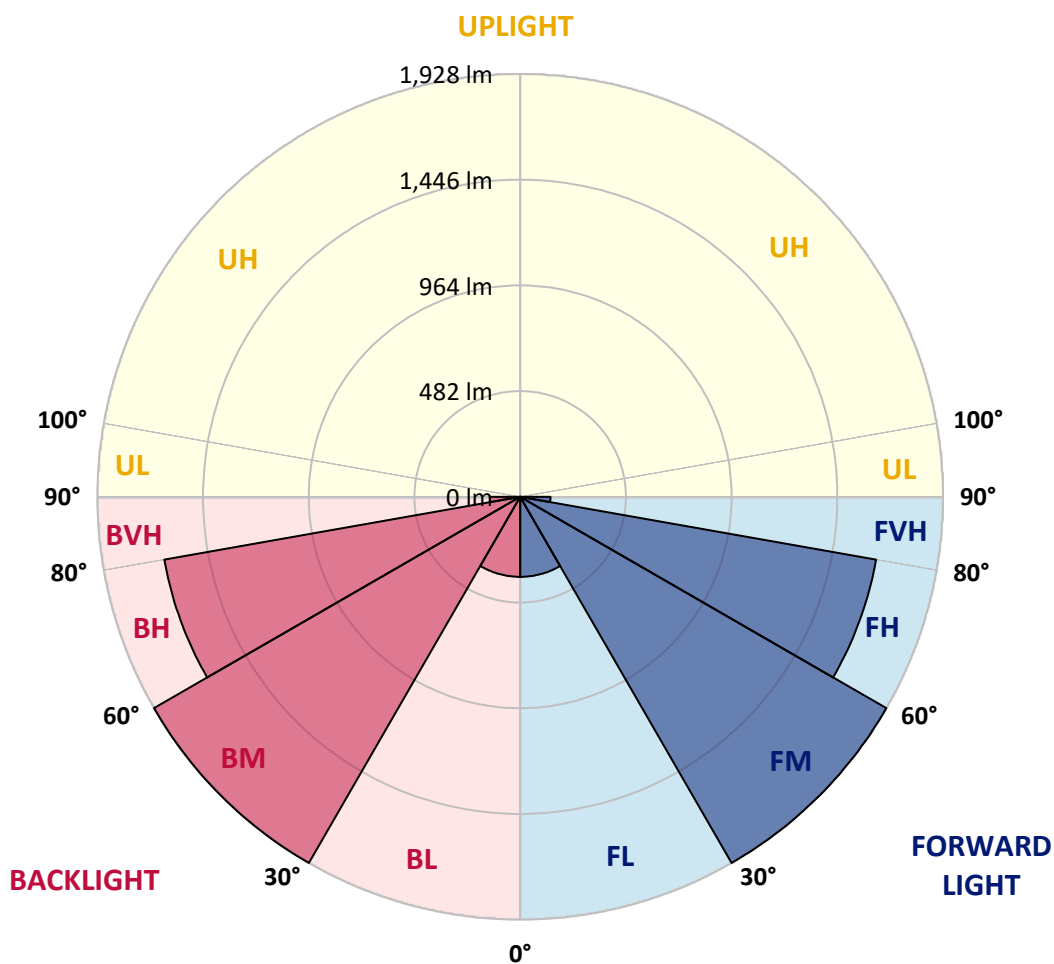
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.8	4.5			
FM	(30°-60°)	1928.3	23.6			
FH	(60°-80°)	1647.9	20.2			G1/1800
FVH	(80°-90°)	138.1	1.7			G2/225
BL	(0°-30°)	364.8	4.5	B1/500		
BM	(30°-60°)	1928.3	23.6	B2/2500		
BH	(60°-80°)	1647.9	20.2	B3/2500		G1/1800
BVH	(80°-90°)	138.1	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°	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
2.5°	668.1	668.1	668.1	668.1	668.1	668.1	668.1	668.1	666.4	668.1	668.1
5°	674.8	674.8	674.8	676.5	676.5	676.5	678.2	678.2	678.2	679.9	679.9
7.5°	679.9	679.9	679.9	679.9	681.6	681.6	681.6	683.3	683.3	684.9	686.6
10°	701.8	701.8	701.8	701.8	701.8	700.1	700.1	700.1	698.4	698.4	698.4
12.5°	728.8	730.5	732.2	732.2	732.2	732.2	728.8	725.4	725.4	725.4	725.4
15°	754.1	755.8	757.5	760.9	762.5	764.2	764.2	764.2	764.2	764.2	760.9
17.5°	794.6	796.3	796.3	798.0	799.7	799.7	801.4	806.4	813.2	816.5	813.2
20°	857.0	860.4	862.1	862.1	863.8	862.1	865.5	868.8	873.9	877.3	879.0
22.5°	902.6	905.9	911.0	911.0	911.0	909.3	912.7	914.4	912.7	912.7	916.1
25°	938.0	941.4	944.8	946.4	949.8	956.6	963.3	963.3	958.2	956.6	956.6
27.5°	983.6	988.6	988.6	990.3	993.7	998.7	1005.5	1010.5	1013.9	1010.5	1008.9
30°	1042.6	1046.0	1047.7	1046.0	1052.7	1054.4	1056.1	1059.5	1069.6	1076.3	1067.9
32.5°	1088.2	1093.2	1098.3	1105.0	1120.2	1127.0	1125.3	1128.6	1132.0	1138.8	1140.4
35°	1157.3	1165.8	1167.4	1172.5	1191.1	1201.2	1216.4	1224.8	1223.1	1214.7	1226.5
37.5°	1261.9	1272.0	1273.7	1282.2	1300.7	1309.2	1326.0	1348.0	1353.0	1341.2	1348.0
40°	1371.6	1385.1	1396.9	1415.4	1445.8	1455.9	1476.2	1488.0	1504.9	1506.5	1494.7
42.5°	1464.4	1479.5	1479.5	1511.6	1545.3	1574.0	1599.3	1601.0	1612.8	1629.7	1612.8
45°	1563.9	1575.7	1580.8	1607.8	1628.0	1665.1	1702.2	1715.7	1720.8	1724.2	1729.2
47.5°	1655.0	1670.2	1675.2	1698.9	1720.8	1754.5	1778.2	1818.6	1828.8	1815.3	1828.8
50°	1712.4	1729.2	1742.7	1791.7	1830.5	1859.1	1879.4	1914.8	1935.1	1924.9	1926.6
52.5°	1801.8	1806.8	1820.3	1847.3	1903.0	1980.6	2004.2	2016.0	2044.7	2059.9	2032.9
55°	1923.2	1940.1	1950.2	1982.3	2011.0	2066.6	2156.1	2174.6	2167.9	2215.1	2169.6
57.5°	1943.5	1968.8	2000.8	2061.6	2112.2	2142.6	2198.2	2262.3	2260.7	2267.4	2269.1
60°	1941.8	1957.0	1975.5	2027.8	2127.4	2183.0	2208.4	2247.2	2299.5	2259.0	2301.1
62.5°	1930.0	1951.9	1972.2	2009.3	2063.3	2142.6	2213.4	2208.4	2279.2	2247.2	2270.8
65°	1859.1	1879.4	1916.5	1965.4	2031.2	2068.3	2139.2	2184.7	2174.6	2218.5	2174.6
67.5°	1736.0	1754.5	1784.9	1842.3	1911.4	1965.4	1990.7	2066.6	2058.2	2107.1	2054.8
70°	1567.3	1590.9	1626.3	1666.8	1734.3	1791.7	1820.3	1869.3	1892.9	1889.5	1886.1
72.5°	1364.8	1385.1	1413.8	1457.6	1515.0	1570.6	1592.6	1629.7	1668.5	1656.7	1660.1
75°	1138.8	1155.6	1177.6	1204.6	1258.5	1302.4	1327.7	1361.5	1391.8	1383.4	1380.0
77.5°	877.3	897.5	921.1	946.4	968.4	1008.9	1027.4	1051.0	1076.3	1071.3	1073.0
80°	614.1	631.0	646.1	673.1	690.0	703.5	723.7	733.9	752.4	749.1	754.1
82.5°	374.5	386.3	396.5	410.0	425.1	421.8	423.5	435.3	450.4	442.0	455.5
85°	183.9	182.2	192.3	195.7	205.8	204.1	202.4	209.2	217.6	212.6	212.6
87.5°	47.2	47.2	47.2	48.9	54.0	59.0	54.0	57.4	60.7	62.4	60.7
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°	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
2.5°	666.4	668.1	666.4	668.1	668.1	668.1	668.1	666.4
5°	679.9	678.2	678.2	678.2	676.5	674.8	674.8	674.8
7.5°	686.6	686.6	684.9	683.3	681.6	681.6	684.9	683.3
10°	701.8	703.5	705.2	706.9	705.2	703.5	703.5	701.8
12.5°	725.4	727.1	730.5	733.9	733.9	732.2	728.8	727.1
15°	759.2	757.5	759.2	762.5	762.5	757.5	752.4	750.7
17.5°	806.4	801.4	798.0	798.0	801.4	796.3	791.2	792.9
20°	872.2	863.8	862.1	857.0	862.1	862.1	853.6	853.6
22.5°	919.4	912.7	905.9	900.9	907.6	911.0	902.6	895.8
25°	963.3	961.6	951.5	946.4	946.4	948.1	936.3	938.0
27.5°	1007.2	1007.2	1000.4	992.0	988.6	993.7	983.6	980.2
30°	1059.5	1054.4	1059.5	1047.7	1039.2	1044.3	1044.3	1037.5
32.5°	1127.0	1120.2	1125.3	1111.8	1100.0	1098.3	1089.8	1079.7
35°	1223.1	1206.2	1197.8	1191.1	1167.4	1165.8	1164.1	1155.6
37.5°	1344.6	1322.7	1304.1	1305.8	1272.0	1263.6	1263.6	1251.8
40°	1489.7	1476.2	1449.2	1439.1	1405.3	1383.4	1381.7	1359.8
42.5°	1590.9	1596.0	1560.5	1536.9	1509.9	1476.2	1477.9	1454.2
45°	1702.2	1692.1	1660.1	1621.3	1609.5	1572.3	1574.0	1550.4
47.5°	1808.5	1771.4	1754.5	1712.4	1693.8	1651.6	1656.7	1639.8
50°	1913.1	1872.6	1854.1	1808.5	1778.2	1734.3	1729.2	1693.8
52.5°	2024.5	1985.7	1960.4	1894.6	1854.1	1820.3	1806.8	1790.0
55°	2169.6	2130.7	2068.3	2004.2	1973.9	1921.6	1916.5	1894.6
57.5°	2233.7	2203.3	2137.5	2095.3	2034.6	1980.6	1960.4	1918.2
60°	2232.0	2221.9	2154.4	2112.2	2022.8	1975.5	1953.6	1928.3
62.5°	2213.4	2201.6	2122.3	2075.1	1994.1	1953.6	1936.7	1904.7
65°	2176.3	2135.8	2065.0	2026.2	1938.4	1903.0	1865.9	1837.2
67.5°	2071.7	1987.4	1955.3	1906.4	1820.3	1783.2	1747.8	1719.1
70°	1876.0	1813.6	1784.9	1724.2	1649.9	1626.3	1582.5	1550.4
72.5°	1626.3	1592.6	1562.2	1496.4	1444.1	1420.5	1376.6	1349.6
75°	1349.6	1329.4	1287.2	1238.3	1191.1	1182.6	1135.4	1125.3
77.5°	1047.7	1029.1	995.4	959.9	938.0	921.1	879.0	875.6
80°	733.9	722.1	695.1	679.9	664.7	649.5	620.8	617.5
82.5°	433.6	425.1	426.8	411.6	403.2	399.8	377.9	379.6
85°	209.2	202.4	202.4	202.4	194.0	192.3	178.8	180.5
87.5°	60.7	54.0	54.0	54.0	50.6	50.6	43.9	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)