

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: P197864

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197864
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8344.5 lumens
Efficiency: N/A
Efficacy: 108.4 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

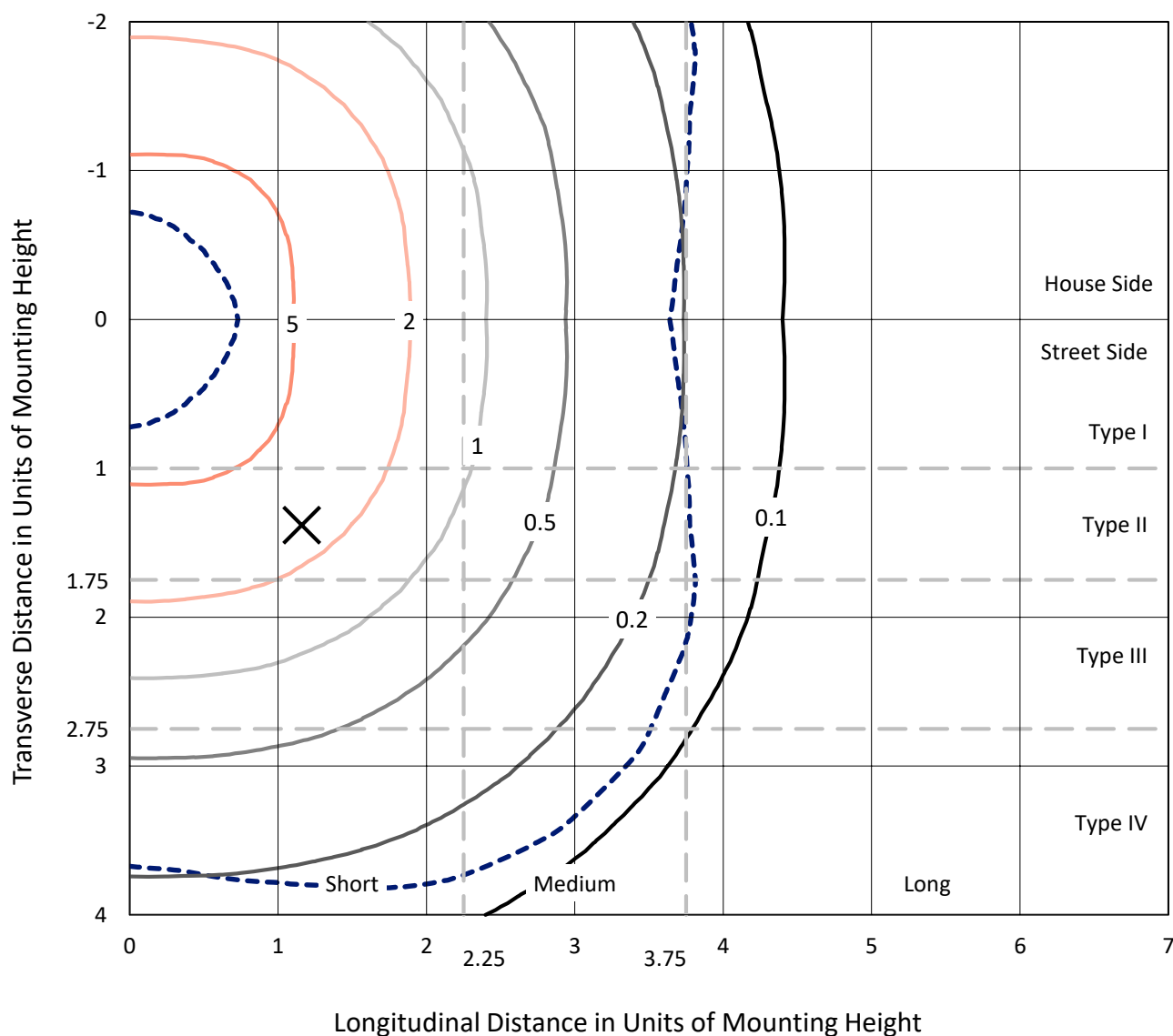


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

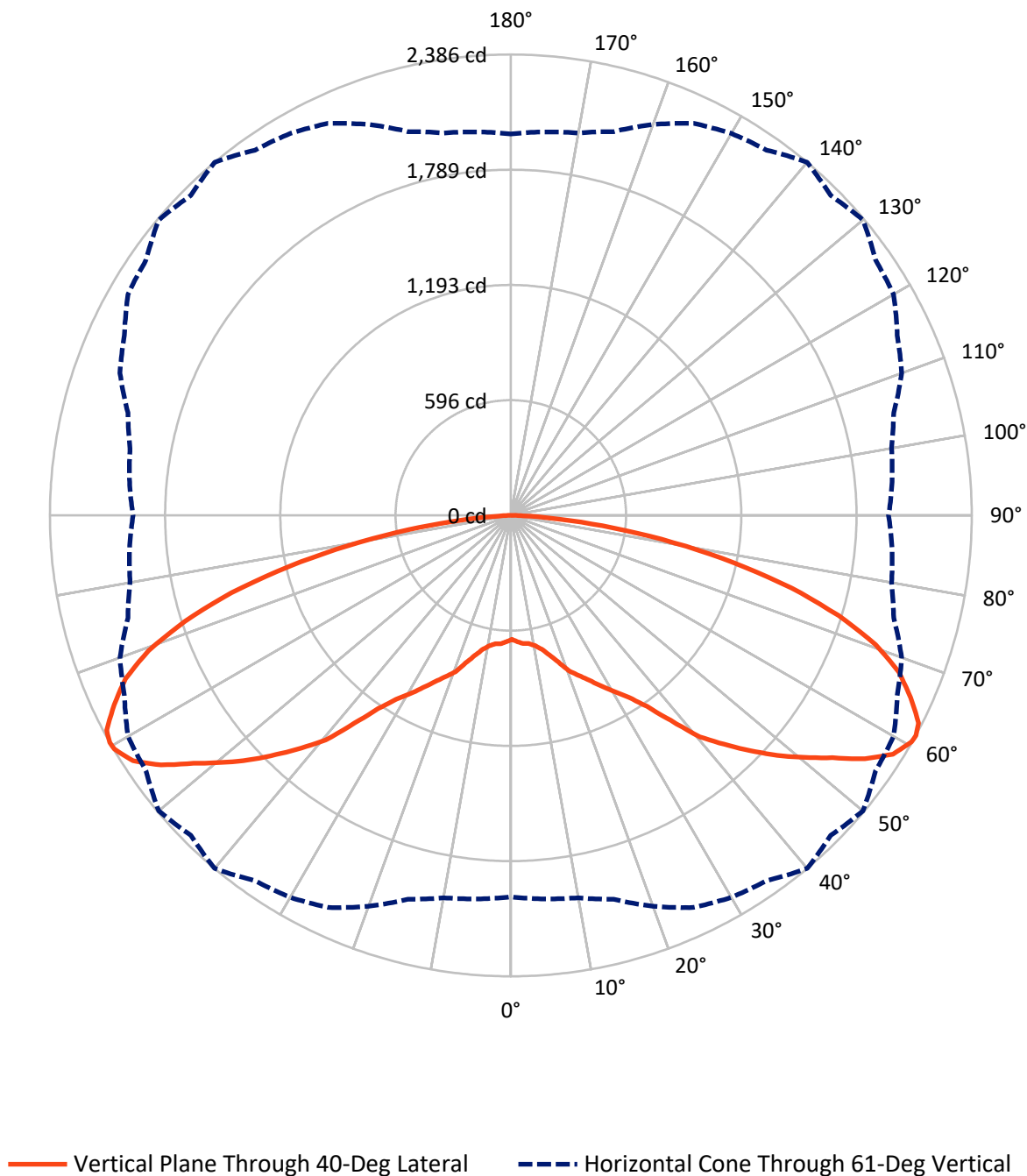


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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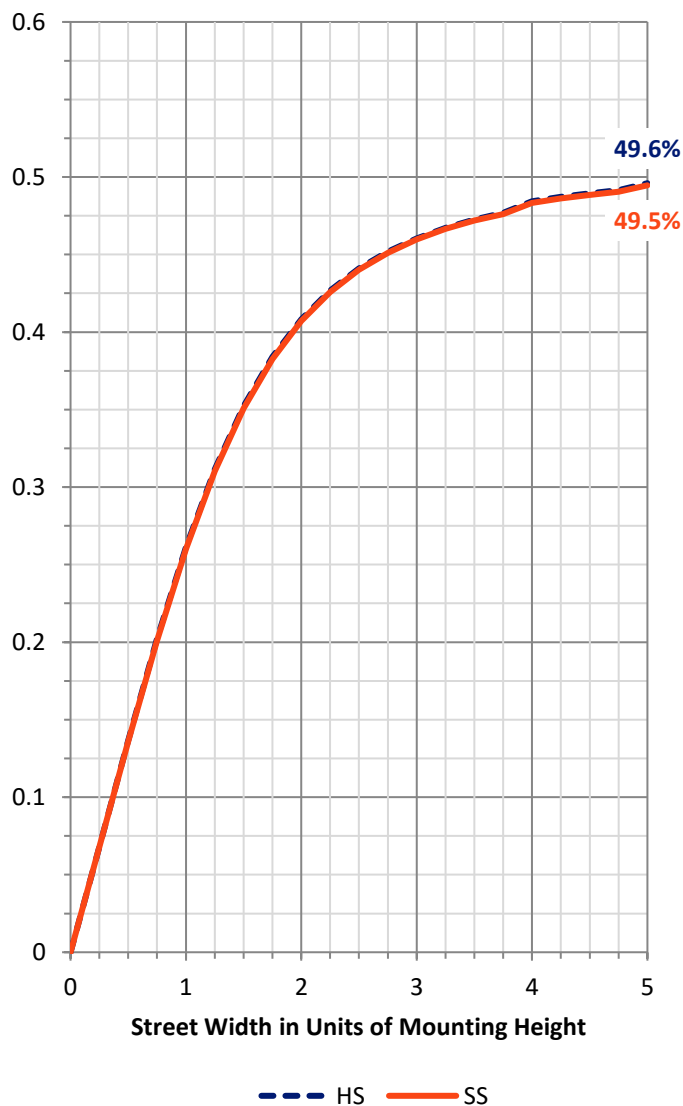
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4172.3	0.0	4172.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4172.3	0.0	4172.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8344.5	0.0	8344.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	0.8
10°-20°	215.7	2.6
20°-30°	437.6	5.2
30°-40°	761.0	9.1
40°-50°	1281.0	15.4
50°-60°	1845.5	22.1
60°-70°	2047.9	24.5
70°-80°	1390.8	16.7
80°-90°	301.2	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°	8344.5	100.0
0°-180°	8344.5	100.0

Coefficient of Utilization



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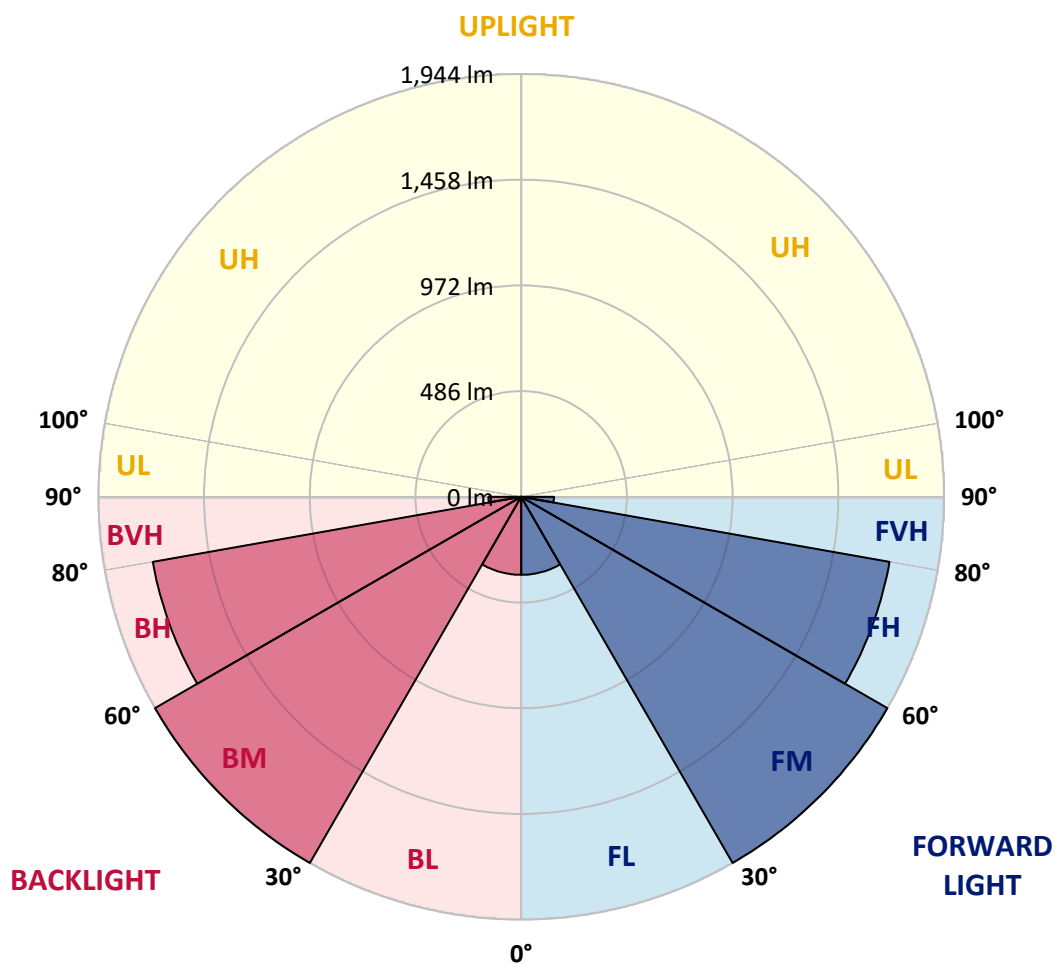
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.6	4.3			
FM	(30°-60°)	1943.7	23.3			
FH	(60°-80°)	1719.3	20.6			G1/1800
FVH	(80°-90°)	150.6	1.8			G2/225
BL	(0°-30°)	358.6	4.3	B1/500		
BM	(30°-60°)	1943.7	23.3	B2/2500		
BH	(60°-80°)	1719.3	20.6	B3/2500		G1/1800
BVH	(80°-90°)	150.6	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°	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1
2.5°	656.3	656.3	656.3	656.3	656.3	654.6	656.3	654.6	654.6	654.6	654.6
5°	661.3	663.0	663.0	663.0	663.0	664.7	664.7	666.4	666.4	666.4	666.4
7.5°	666.4	666.4	666.4	666.4	666.4	666.4	668.1	668.1	669.8	669.8	671.4
10°	686.6	686.6	688.3	688.3	686.6	686.6	686.6	684.9	684.9	683.3	683.3
12.5°	715.3	715.3	717.0	718.7	718.7	717.0	715.3	711.9	710.2	710.2	710.2
15°	737.2	738.9	742.3	745.7	747.4	747.4	749.1	749.1	749.1	747.4	745.7
17.5°	779.4	779.4	781.1	782.8	782.8	784.5	787.9	791.2	798.0	799.7	794.6
20°	840.2	841.8	846.9	845.2	845.2	848.6	852.0	853.6	858.7	862.1	862.1
22.5°	885.7	889.1	895.8	895.8	894.1	895.8	899.2	899.2	899.2	897.5	900.9
25°	921.1	924.5	929.6	929.6	932.9	941.4	951.5	949.8	944.8	944.8	943.1
27.5°	968.4	970.1	973.4	973.4	978.5	983.6	990.3	997.0	1000.4	998.7	995.4
30°	1027.4	1030.8	1034.2	1029.1	1037.5	1042.6	1046.0	1046.0	1059.5	1066.2	1054.4
32.5°	1071.3	1078.0	1084.8	1089.8	1106.7	1115.1	1110.1	1115.1	1121.9	1128.6	1128.6
35°	1143.8	1150.6	1155.6	1159.0	1175.9	1187.7	1201.2	1214.7	1213.0	1207.9	1218.1
37.5°	1248.4	1255.2	1260.2	1267.0	1288.9	1297.3	1307.5	1336.1	1346.3	1332.8	1339.5
40°	1359.8	1371.6	1388.4	1408.7	1440.7	1450.9	1467.7	1488.0	1506.5	1513.3	1496.4
42.5°	1455.9	1469.4	1472.8	1504.9	1543.7	1574.0	1597.6	1602.7	1619.6	1634.8	1622.9
45°	1558.8	1570.6	1579.1	1606.1	1628.0	1670.2	1709.0	1727.5	1736.0	1734.3	1747.8
47.5°	1655.0	1668.5	1680.3	1709.0	1736.0	1771.4	1796.7	1840.6	1855.8	1835.5	1857.4
50°	1714.0	1730.9	1746.1	1800.1	1847.3	1884.4	1904.7	1941.8	1968.8	1955.3	1960.4
52.5°	1811.9	1818.6	1830.5	1860.8	1923.2	2009.3	2029.5	2049.8	2083.5	2100.4	2070.0
55°	1936.7	1955.3	1972.2	2011.0	2043.0	2107.1	2199.9	2225.2	2223.5	2275.8	2228.6
57.5°	1963.7	1990.7	2024.5	2095.3	2157.7	2194.9	2253.9	2324.8	2331.5	2334.9	2341.6
60°	1967.1	1984.0	2005.9	2065.0	2174.6	2242.1	2275.8	2321.4	2382.1	2338.3	2383.8
61°	1973.9	1992.4	2009.3	2056.5	2152.7	2238.7	2282.6	2307.9	2385.5	2341.6	2378.7
62.5°	1962.0	1984.0	2009.3	2054.8	2118.9	2206.7	2291.0	2291.0	2368.6	2339.9	2360.2
65°	1891.2	1911.4	1960.4	2019.4	2097.0	2142.6	2230.3	2286.0	2274.1	2324.8	2274.1
67.5°	1771.4	1788.3	1830.5	1899.6	1984.0	2048.1	2088.6	2178.0	2166.2	2218.5	2161.1
70°	1602.7	1624.6	1676.9	1724.2	1803.5	1870.9	1924.9	1978.9	2002.5	1997.5	2000.8
72.5°	1400.3	1415.4	1462.7	1515.0	1577.4	1653.3	1702.2	1736.0	1773.1	1771.4	1778.2
75°	1165.8	1179.3	1219.7	1258.5	1319.3	1378.3	1434.0	1469.4	1499.8	1498.1	1491.4
77.5°	899.2	914.4	959.9	993.7	1022.4	1088.2	1130.3	1153.9	1179.3	1179.3	1182.6
80°	627.6	637.7	673.1	708.6	735.6	767.6	821.6	826.7	855.3	848.6	855.3
82.5°	377.9	384.6	411.6	431.9	450.4	480.8	506.1	516.2	533.1	526.4	536.5
85°	170.4	173.8	190.6	202.4	210.9	227.8	241.2	246.3	254.7	253.1	259.8
87.5°	35.4	38.8	43.9	47.2	48.9	55.7	60.7	60.7	64.1	64.1	65.8
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°	641.1	641.1	641.1	641.1	641.1	641.1	641.1	641.1
2.5°	654.6	656.3	654.6	654.6	654.6	656.3	654.6	656.3
5°	666.4	666.4	666.4	664.7	663.0	663.0	663.0	661.3
7.5°	673.1	673.1	671.4	669.8	668.1	669.8	669.8	669.8
10°	686.6	690.0	691.7	691.7	690.0	690.0	690.0	688.3
12.5°	710.2	711.9	717.0	718.7	720.4	718.7	713.6	711.9
15°	742.3	742.3	744.0	747.4	747.4	740.6	735.6	733.9
17.5°	787.9	786.2	782.8	782.8	784.5	781.1	776.0	776.0
20°	857.0	850.3	846.9	841.8	846.9	846.9	836.8	831.7
22.5°	905.9	899.2	890.8	885.7	892.5	897.5	885.7	879.0
25°	948.1	949.8	936.3	929.6	931.3	934.6	919.4	917.8
27.5°	992.0	995.4	988.6	976.8	973.4	980.2	968.4	965.0
30°	1046.0	1044.3	1047.7	1032.5	1025.7	1030.8	1029.1	1020.7
32.5°	1116.8	1108.4	1111.8	1098.3	1084.8	1084.8	1074.7	1064.5
35°	1214.7	1196.1	1187.7	1179.3	1153.9	1155.6	1147.2	1138.8
37.5°	1342.9	1314.2	1290.6	1295.7	1258.5	1255.2	1250.1	1238.3
40°	1489.7	1476.2	1449.2	1434.0	1395.2	1376.6	1369.9	1348.0
42.5°	1599.3	1602.7	1562.2	1535.2	1504.9	1472.8	1469.4	1447.5
45°	1717.4	1705.6	1668.5	1624.6	1611.1	1572.3	1567.3	1545.3
47.5°	1835.5	1795.0	1773.1	1727.5	1705.6	1656.7	1660.1	1639.8
50°	1946.9	1899.6	1879.4	1825.4	1791.7	1742.7	1730.9	1697.2
52.5°	2065.0	2021.1	1989.0	1919.9	1870.9	1833.8	1813.6	1800.1
55°	2223.5	2179.7	2107.1	2043.0	2002.5	1941.8	1935.1	1911.4
57.5°	2297.8	2265.7	2186.4	2140.9	2068.3	2005.9	1985.7	1938.4
60°	2306.2	2292.7	2208.4	2164.5	2058.2	2007.6	1982.3	1953.6
61°	2304.5	2287.6	2206.7	2152.7	2051.5	2000.8	1980.6	1955.3
62.5°	2297.8	2277.5	2188.1	2132.4	2038.0	1989.0	1972.2	1935.1
65°	2275.8	2220.2	2142.6	2091.9	1989.0	1945.2	1904.7	1867.6
67.5°	2179.7	2075.1	2043.0	1978.9	1874.3	1825.4	1788.3	1756.2
70°	1973.9	1904.7	1870.9	1791.7	1707.3	1666.8	1624.6	1584.1
72.5°	1732.6	1687.1	1658.4	1562.2	1499.8	1459.3	1420.5	1381.7
75°	1462.7	1428.9	1376.6	1304.1	1248.4	1207.9	1172.5	1153.9
77.5°	1148.9	1127.0	1086.5	1013.9	983.6	948.1	912.7	884.0
80°	826.7	809.8	777.7	725.4	700.1	664.7	639.4	615.8
82.5°	514.6	501.1	482.5	443.7	433.6	411.6	388.0	371.2
85°	246.3	237.9	231.1	205.8	204.1	185.6	177.1	167.0
87.5°	64.1	62.4	59.0	50.6	48.9	43.9	40.5	35.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)