

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: P197767

Luminaire Tested: **TT-C5-LED-E1-WQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115468)
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-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8592.2 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



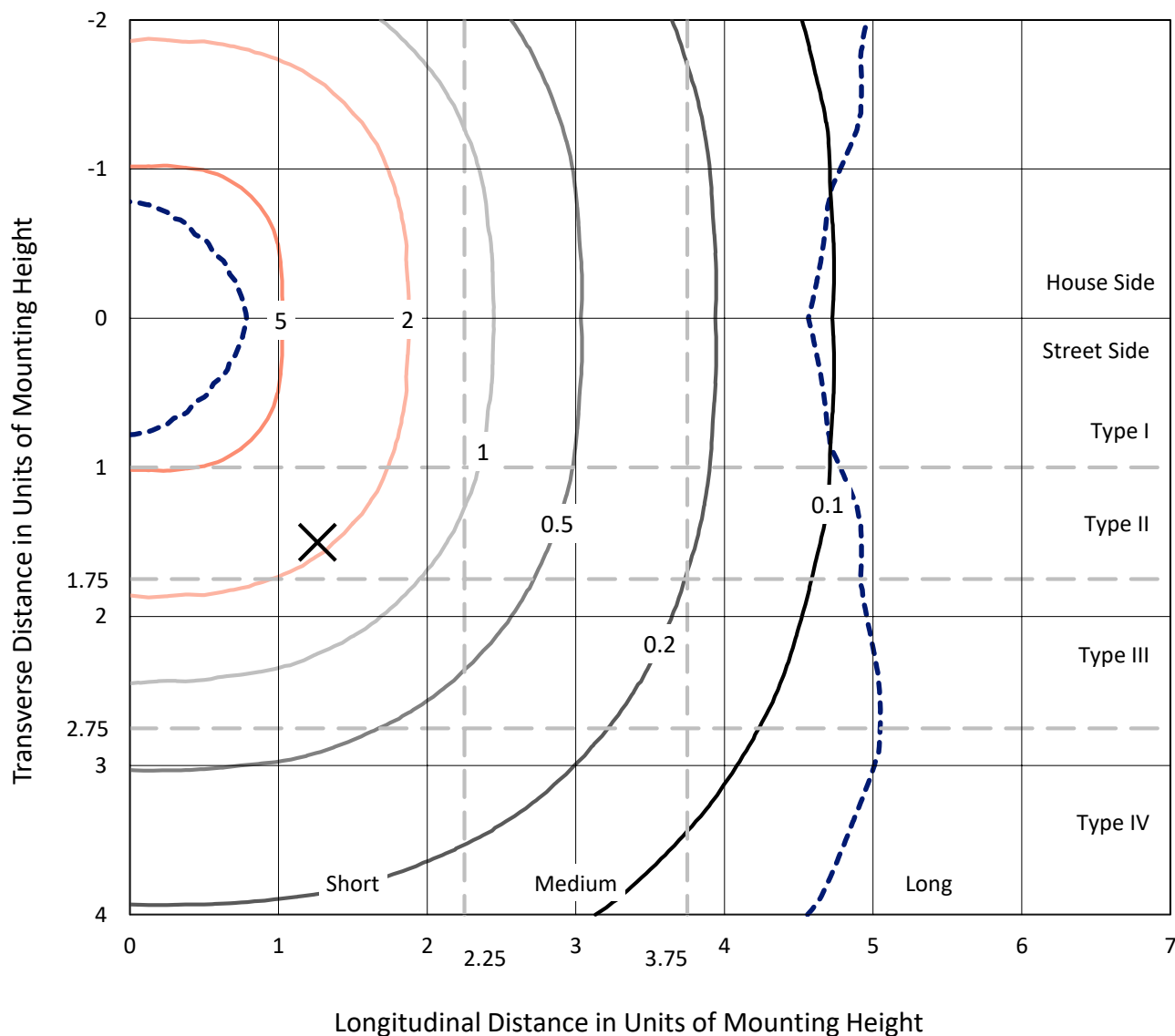
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

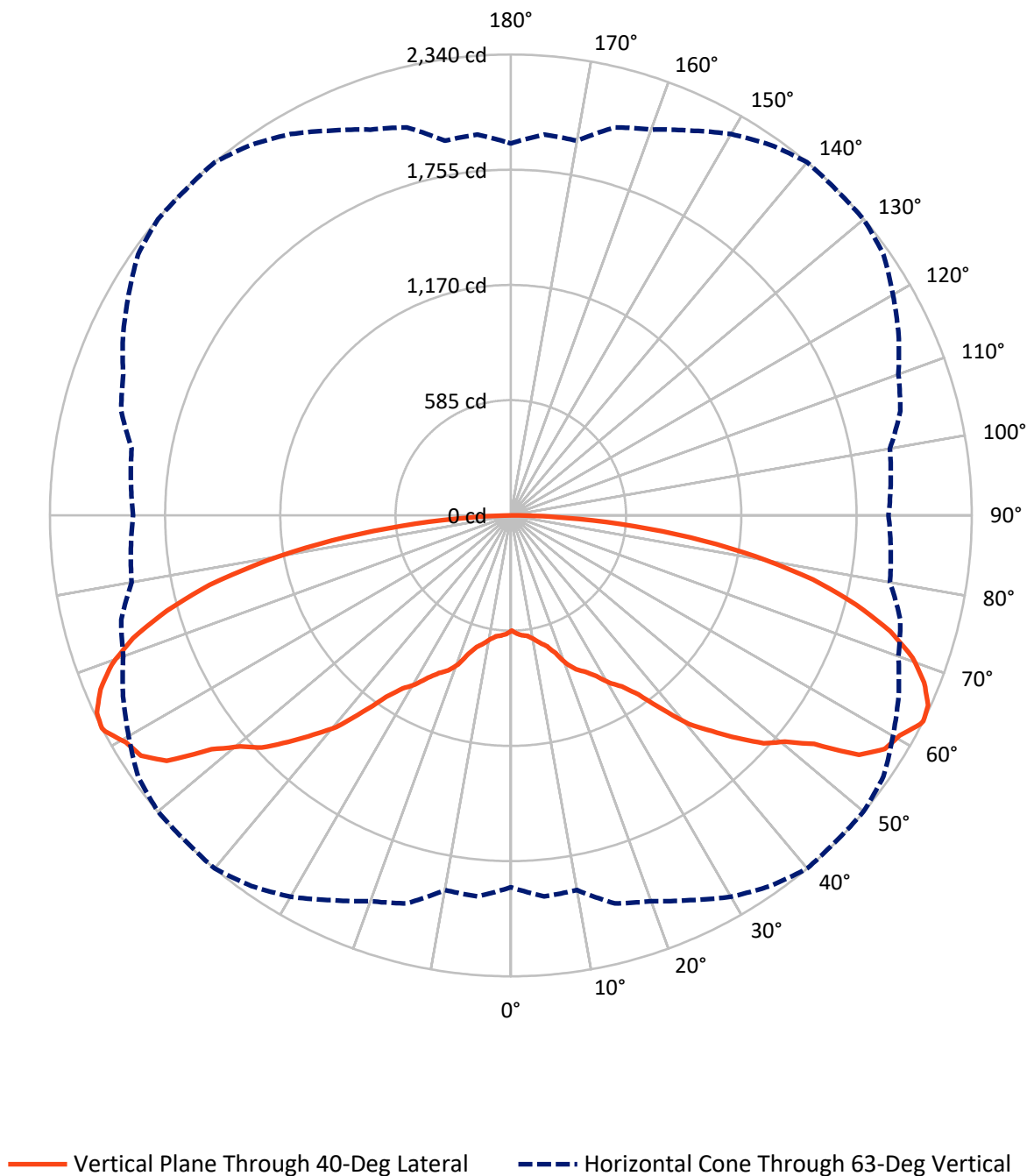


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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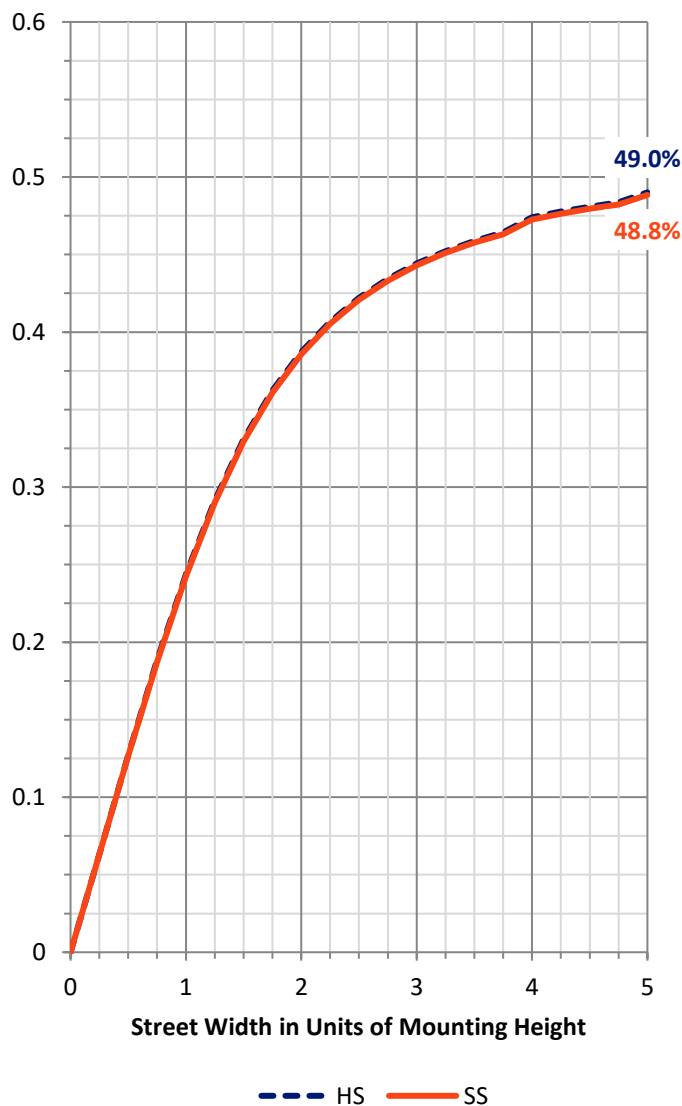
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4296.1	0.0	4296.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4296.1	0.0	4296.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8592.2	0.0	8592.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	0.7
10°-20°	200.7	2.3
20°-30°	408.1	4.7
30°-40°	703.3	8.2
40°-50°	1184.8	13.8
50°-60°	1744.7	20.3
60°-70°	2074.7	24.1
70°-80°	1679.5	19.5
80°-90°	537.3	6.3
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°	8592.2	100.0
0°-180°	8592.2	100.0

Coefficient of Utilization



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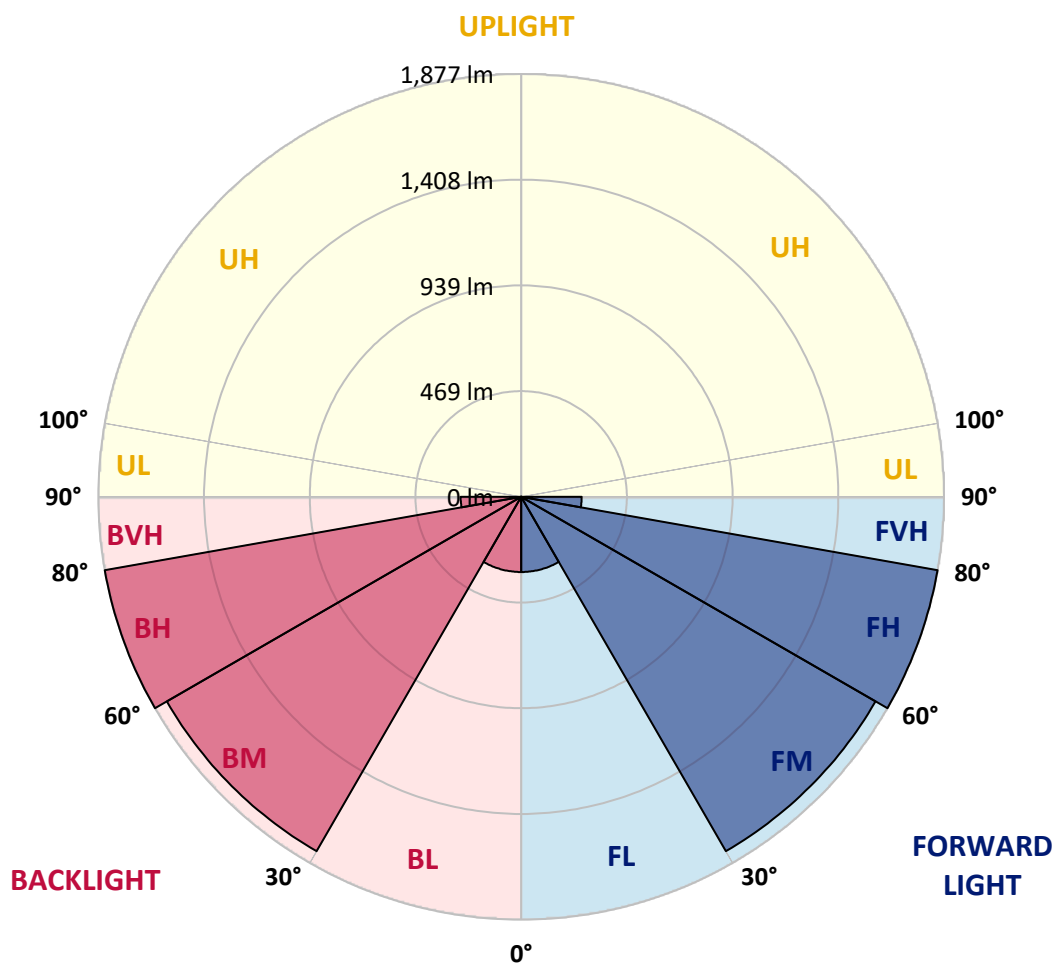
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.9	3.9			
FM	(30°-60°)	1816.4	21.1			
FH	(60°-80°)	1877.1	21.8			G2/5000
FVH	(80°-90°)	268.7	3.1			G3/500
BL	(0°-30°)	333.9	3.9	B1/500		
BM	(30°-60°)	1816.4	21.1	B2/2500		
BH	(60°-80°)	1877.1	21.8	B3/2500		G2/5000
BVH	(80°-90°)	268.7	3.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	584.9	584.9	584.9	584.9	584.9	584.9	584.9	584.9	584.9	584.9	584.9
2.5°	603.3	603.3	603.3	603.3	603.3	603.3	601.6	603.3	601.6	601.6	601.6
5°	614.9	614.9	614.9	614.9	613.3	613.3	611.6	611.6	611.6	609.9	611.6
7.5°	620.0	620.0	620.0	620.0	618.3	618.3	618.3	618.3	618.3	618.3	618.3
10°	631.5	631.5	633.2	634.9	638.1	638.1	638.1	639.8	638.1	638.1	638.1
12.5°	656.5	654.8	658.2	661.4	664.8	666.4	666.4	666.4	664.8	664.8	666.4
15°	691.3	688.1	689.6	691.3	693.0	694.7	694.7	693.0	689.6	689.6	689.6
17.5°	736.2	731.3	729.6	727.9	727.9	731.3	734.5	733.0	734.5	733.0	734.5
20°	789.4	786.0	786.0	786.0	787.7	794.4	801.0	804.4	802.7	799.5	804.4
22.5°	824.3	826.0	834.3	832.6	830.9	837.5	845.9	852.5	849.3	844.3	847.6
25°	862.5	862.5	874.3	879.2	874.3	874.3	877.5	882.4	879.2	875.8	879.2
27.5°	905.7	905.7	910.8	915.7	912.3	912.3	917.4	925.8	924.1	922.4	924.1
30°	957.2	950.6	945.7	954.0	962.3	964.0	968.9	982.2	985.6	983.9	987.1
32.5°	1005.5	995.5	998.9	1003.8	1022.1	1028.8	1027.1	1037.1	1035.4	1030.5	1037.1
35°	1052.1	1063.6	1070.3	1080.3	1086.9	1095.2	1095.2	1113.4	1116.8	1111.9	1116.8
37.5°	1141.8	1146.7	1165.1	1166.6	1175.0	1206.6	1209.8	1234.8	1248.1	1241.4	1243.1
40°	1264.7	1263.0	1276.5	1296.3	1313.0	1352.8	1364.5	1381.0	1392.7	1387.8	1394.4
42.5°	1364.5	1351.2	1361.1	1404.3	1422.6	1452.6	1467.5	1475.8	1497.4	1490.8	1499.1
45°	1435.9	1440.8	1454.3	1497.4	1509.0	1534.0	1568.8	1583.8	1612.0	1603.9	1608.8
47.5°	1505.8	1529.1	1540.6	1560.5	1597.1	1630.4	1673.5	1688.5	1728.5	1725.1	1720.1
50°	1597.1	1615.4	1628.7	1643.6	1693.6	1748.3	1784.9	1791.5	1804.9	1794.9	1811.6
52.5°	1695.1	1693.6	1705.2	1746.6	1816.5	1838.1	1869.7	1899.6	1927.9	1937.9	1927.9
55°	1824.8	1783.2	1831.5	1891.3	1921.2	1972.7	2049.2	2090.7	2145.6	2153.9	2137.3
57.5°	1878.0	1878.0	1927.9	1962.7	2017.6	2109.1	2190.5	2210.4	2238.6	2223.6	2240.3
60°	1871.4	1934.5	1934.5	1996.0	2085.8	2167.2	2197.1	2230.3	2268.5	2267.0	2267.0
62.5°	1879.7	1941.1	1924.5	2030.9	2085.8	2152.2	2218.7	2280.2	2333.4	2331.7	2330.0
63°	1887.9	1941.1	1931.3	2039.2	2084.1	2155.5	2235.4	2296.7	2340.1	2336.7	2338.4
65°	1912.9	1897.9	1957.8	2025.9	2077.4	2183.9	2250.3	2298.4	2328.3	2326.6	2326.6
67.5°	1866.3	1831.5	1916.3	1942.8	2040.9	2135.6	2187.1	2242.0	2263.6	2263.6	2260.2
70°	1723.5	1738.3	1796.6	1839.8	1939.4	2024.2	2067.4	2137.3	2163.8	2163.8	2162.3
72.5°	1578.9	1603.9	1643.6	1705.2	1799.8	1866.3	1917.8	1981.1	2015.9	2014.2	2014.2
75°	1394.4	1417.7	1464.1	1522.4	1605.4	1670.3	1711.8	1771.6	1811.6	1826.5	1809.9
77.5°	1186.7	1193.3	1236.5	1296.3	1369.4	1414.3	1477.5	1535.7	1568.8	1567.1	1562.2
80°	934.1	942.3	979.0	1047.0	1086.9	1140.1	1198.3	1229.9	1258.1	1258.1	1254.7
82.5°	644.8	663.1	699.7	744.6	786.0	832.6	864.2	895.8	919.1	917.4	912.3
85°	363.9	372.3	407.1	435.5	467.0	496.9	518.5	538.5	558.4	558.4	555.0
87.5°	109.6	98.1	118.0	129.7	146.2	161.1	171.2	191.1	204.5	189.5	189.5
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°	584.9	584.9	584.9	584.9	584.9	584.9	584.9	584.9
2.5°	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3
5°	611.6	613.3	613.3	614.9	614.9	614.9	614.9	614.9
7.5°	618.3	618.3	618.3	618.3	620.0	620.0	620.0	620.0
10°	638.1	639.8	638.1	638.1	634.9	633.2	633.2	633.2
12.5°	666.4	668.1	668.1	664.8	661.4	658.2	656.5	654.8
15°	693.0	698.0	694.7	693.0	689.6	691.3	691.3	693.0
17.5°	734.5	736.2	731.3	727.9	726.2	729.6	733.0	734.5
20°	806.1	802.7	792.8	789.4	786.0	786.0	789.4	789.4
22.5°	851.0	842.6	836.0	832.6	832.6	832.6	827.7	821.0
25°	882.4	877.5	872.6	875.8	879.2	874.3	862.5	860.8
27.5°	925.8	915.7	914.0	912.3	914.0	910.8	909.1	902.5
30°	982.2	968.9	965.5	962.3	952.3	949.1	952.3	957.2
32.5°	1035.4	1027.1	1030.5	1023.7	1005.5	998.9	1002.1	1000.6
35°	1111.9	1096.9	1096.9	1083.5	1078.6	1076.9	1063.6	1052.1
37.5°	1233.1	1213.2	1208.3	1178.4	1165.1	1168.3	1150.1	1136.7
40°	1381.0	1366.2	1352.8	1319.6	1301.3	1278.0	1266.4	1266.4
42.5°	1479.1	1469.2	1450.9	1427.6	1407.7	1367.7	1352.8	1361.1
45°	1587.2	1573.9	1535.7	1512.4	1494.0	1465.8	1449.2	1432.7
47.5°	1696.8	1678.6	1633.8	1603.9	1560.5	1552.2	1534.0	1510.7
50°	1793.2	1786.6	1755.0	1705.2	1650.3	1637.0	1620.3	1598.8
52.5°	1911.2	1871.4	1844.7	1823.1	1761.6	1718.4	1695.1	1705.2
55°	2104.0	2054.2	1986.0	1917.8	1904.6	1853.1	1794.9	1826.5
57.5°	2215.3	2187.1	2135.6	2027.6	1974.4	1939.4	1901.3	1872.9
60°	2242.0	2190.5	2178.8	2097.3	2012.7	1939.4	1954.4	1887.9
62.5°	2293.5	2223.6	2158.9	2094.1	2042.6	1942.8	1939.4	1904.6
63°	2310.2	2240.3	2172.1	2094.1	2047.5	1954.4	1936.2	1917.8
65°	2306.8	2246.9	2195.4	2094.1	2024.2	1987.7	1897.9	1939.4
67.5°	2243.7	2193.7	2133.9	2064.2	1947.7	1919.5	1856.5	1864.8
70°	2142.2	2077.4	2021.0	1956.1	1863.1	1798.1	1760.1	1728.5
72.5°	1984.3	1926.2	1866.3	1806.5	1723.5	1645.3	1618.8	1583.8
75°	1775.0	1718.4	1663.7	1607.1	1529.1	1459.2	1431.0	1406.0
77.5°	1535.7	1487.4	1409.4	1356.2	1311.3	1236.5	1209.8	1183.3
80°	1224.8	1201.7	1145.0	1075.4	1052.1	979.0	958.9	924.1
82.5°	890.7	867.5	822.6	774.5	746.3	708.0	674.7	651.4
85°	543.5	518.5	495.2	452.0	435.5	407.1	380.6	367.3
87.5°	196.2	176.1	157.9	137.9	128.0	107.9	104.7	94.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)