

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: P197743

Luminaire Tested: **TT-C5-LED-E1-WQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8027.3 lumens
Efficiency: N/A
Efficacy: 104.3 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

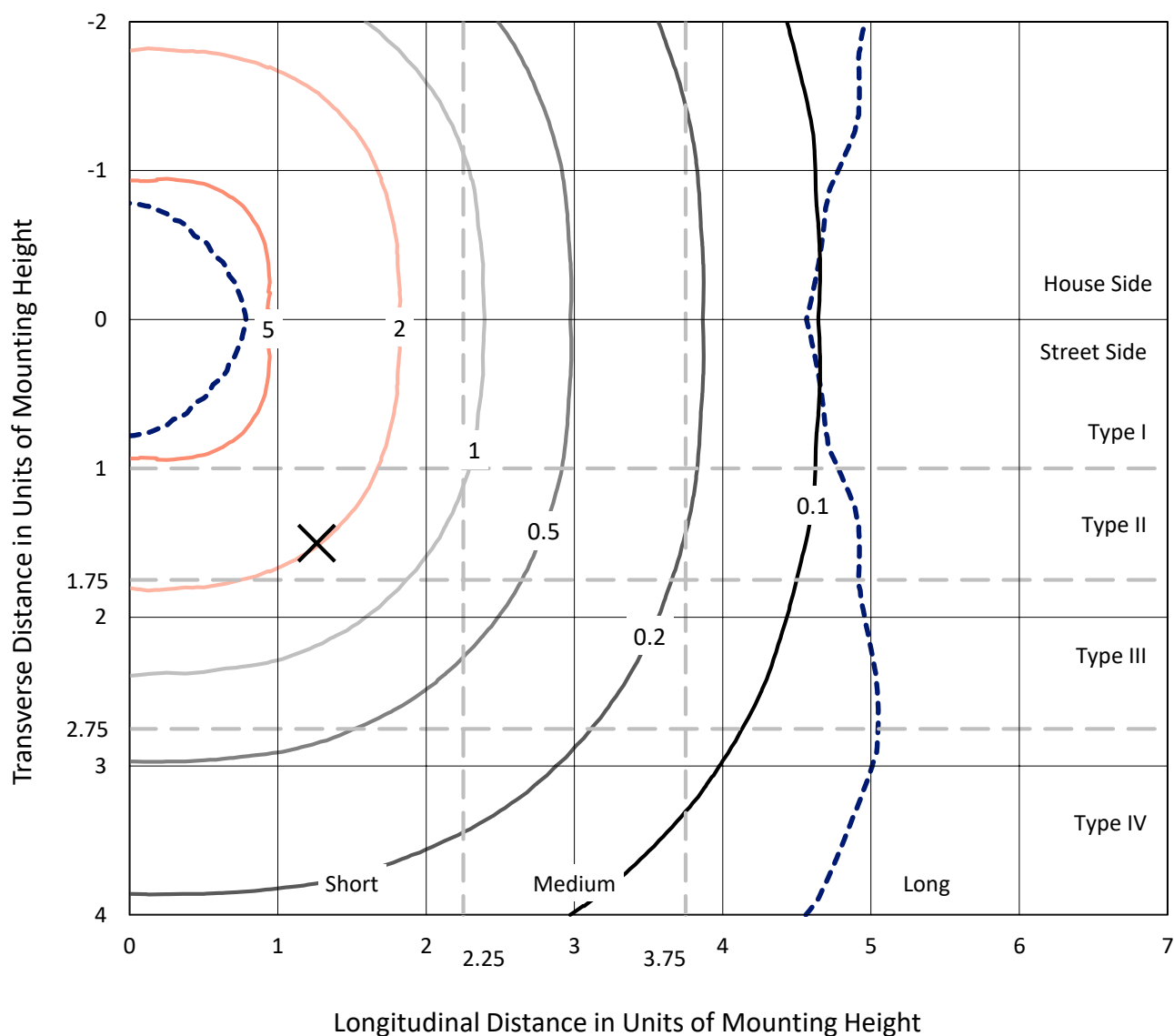


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

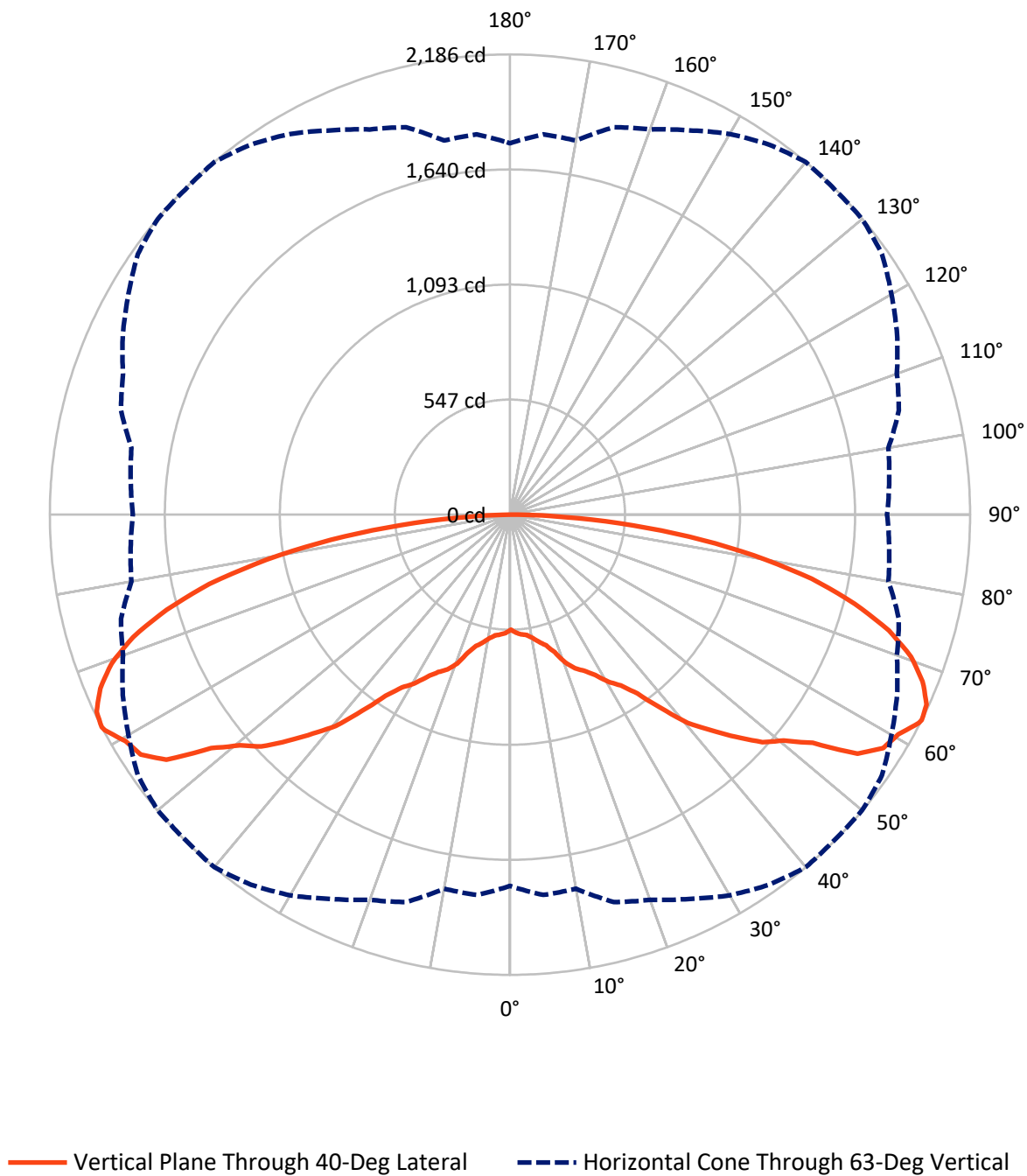


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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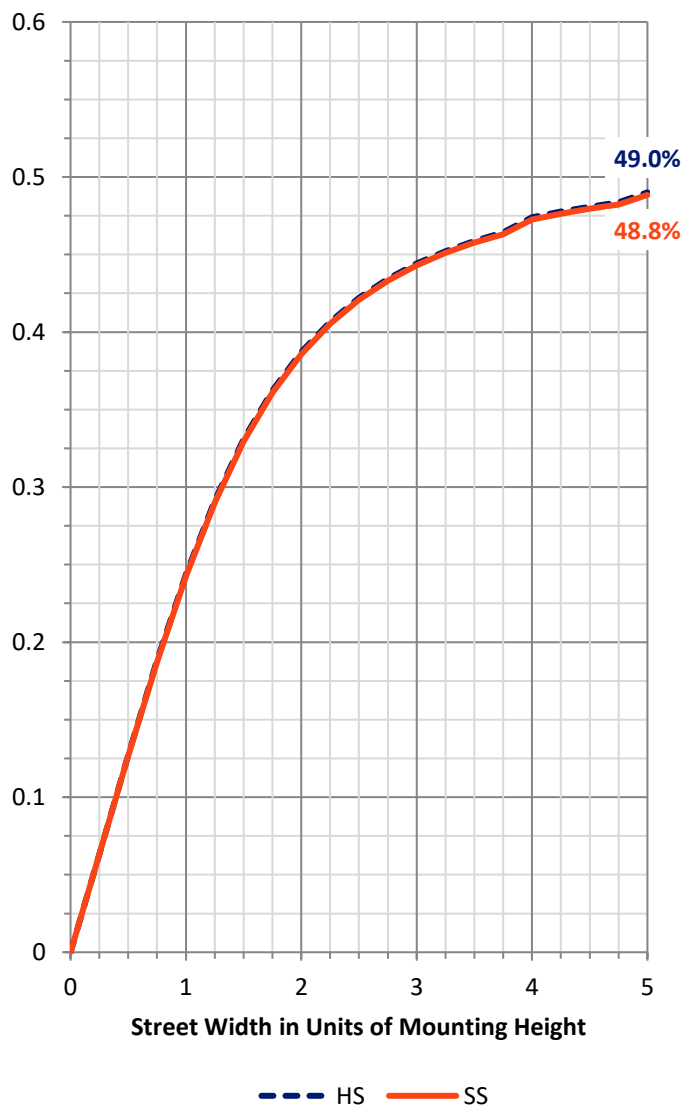
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4013.6	0.0	4013.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4013.6	0.0	4013.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	8027.3	0.0	8027.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	0.7
10°-20°	187.5	2.3
20°-30°	381.3	4.7
30°-40°	657.1	8.2
40°-50°	1106.9	13.8
50°-60°	1629.9	20.3
60°-70°	1938.3	24.1
70°-80°	1569.1	19.5
80°-90°	502.0	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°	8027.3	100.0
0°-180°	8027.3	100.0

Coefficient of Utilization



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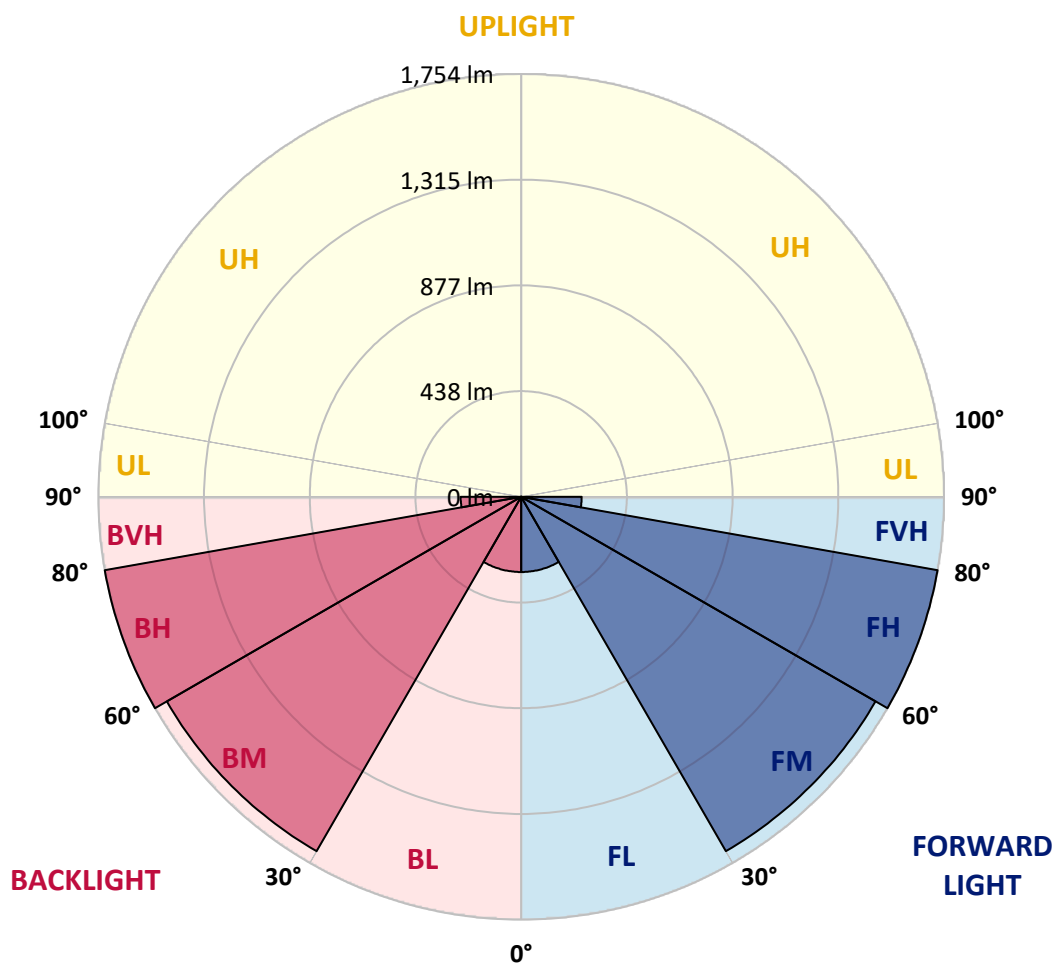
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.0	3.9			
FM	(30°-60°)	1697.0	21.1			
FH	(60°-80°)	1753.7	21.8			G1/1800
FVH	(80°-90°)	251.0	3.1			G3/500
BL	(0°-30°)	312.0	3.9	B1/500		
BM	(30°-60°)	1697.0	21.1	B2/2500		
BH	(60°-80°)	1753.7	21.8	B3/2500		G1/1800
BVH	(80°-90°)	251.0	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°	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5
2.5°	563.7	563.7	563.7	563.7	563.7	563.7	562.0	563.7	562.0	562.0	562.0
5°	574.6	574.6	574.6	574.6	572.9	572.9	571.3	571.3	571.3	569.8	571.3
7.5°	579.2	579.2	579.2	579.2	577.6	577.6	577.6	577.6	577.6	577.6	577.6
10°	590.0	590.0	591.6	593.1	596.2	596.2	596.2	597.9	596.2	596.2	596.2
12.5°	613.3	611.8	614.9	617.9	621.1	622.7	622.7	622.7	621.1	621.1	622.7
15°	646.0	642.7	644.4	646.0	647.5	649.0	649.0	647.5	644.4	644.4	644.4
17.5°	687.8	683.2	681.7	680.1	680.1	683.2	686.2	684.7	686.2	684.7	686.2
20°	737.6	734.4	734.4	734.4	735.9	742.2	748.5	751.5	750.0	746.8	751.5
22.5°	770.1	771.8	779.4	777.9	776.3	782.6	790.3	796.6	793.3	788.7	791.8
25°	805.9	805.9	816.6	821.4	816.6	816.6	819.9	824.4	821.4	818.3	821.4
27.5°	846.2	846.2	850.8	855.6	852.5	852.5	857.1	864.9	863.2	861.7	863.2
30°	894.3	888.2	883.4	891.3	899.1	900.6	905.2	917.6	920.7	919.1	922.4
32.5°	939.4	930.0	933.2	937.8	954.8	961.1	959.6	968.9	967.2	962.6	968.9
35°	982.9	993.8	999.9	1009.2	1015.5	1023.2	1023.2	1040.3	1043.4	1038.8	1043.4
37.5°	1066.7	1071.3	1088.4	1090.0	1097.8	1127.2	1130.4	1153.7	1166.1	1159.8	1161.4
40°	1181.6	1180.1	1192.5	1211.0	1226.6	1263.9	1274.7	1290.2	1301.1	1296.5	1302.6
42.5°	1274.7	1262.3	1271.7	1312.0	1329.1	1357.0	1371.0	1378.8	1399.0	1392.7	1400.5
45°	1341.6	1346.1	1358.6	1399.0	1409.9	1433.2	1465.6	1479.8	1506.1	1498.3	1503.0
47.5°	1406.7	1428.4	1439.3	1458.0	1492.2	1523.1	1563.6	1577.5	1614.7	1611.7	1607.1
50°	1492.2	1509.2	1521.6	1535.5	1582.3	1633.4	1667.6	1673.7	1686.1	1676.9	1692.4
52.5°	1583.8	1582.3	1593.0	1631.9	1697.0	1717.2	1746.8	1774.7	1801.0	1810.4	1801.0
55°	1704.8	1666.1	1711.1	1766.9	1794.9	1843.0	1914.4	1953.3	2004.5	2012.3	1996.7
57.5°	1754.5	1754.5	1801.0	1833.7	1885.0	1970.3	2046.5	2065.0	2091.4	2077.4	2093.1
60°	1748.3	1807.3	1807.3	1864.8	1948.6	2024.7	2052.6	2083.7	2119.4	2117.9	2117.9
62.5°	1756.2	1813.4	1798.0	1897.4	1948.6	2010.6	2072.8	2130.3	2179.9	2178.4	2176.9
63°	1763.8	1813.4	1804.3	1905.1	1947.1	2013.9	2088.3	2145.8	2186.2	2183.0	2184.5
65°	1787.1	1773.2	1829.1	1892.7	1940.8	2040.2	2102.3	2147.3	2175.4	2173.8	2173.8
67.5°	1743.6	1711.1	1790.2	1815.1	1906.8	1995.2	2043.3	2094.6	2114.7	2114.7	2111.6
70°	1610.1	1624.1	1678.5	1718.8	1811.9	1891.1	1931.6	1996.7	2021.5	2021.5	2020.0
72.5°	1475.0	1498.3	1535.5	1593.0	1681.5	1743.6	1791.9	1850.8	1883.3	1881.8	1881.8
75°	1302.6	1324.4	1367.9	1422.3	1499.8	1560.5	1599.3	1655.2	1692.4	1706.4	1690.9
77.5°	1108.7	1114.8	1155.2	1211.0	1279.3	1321.3	1380.3	1434.7	1465.6	1464.1	1459.5
80°	872.6	880.4	914.5	978.1	1015.5	1065.2	1119.5	1149.0	1175.3	1175.3	1172.2
82.5°	602.4	619.4	653.6	695.6	734.4	777.9	807.4	836.9	858.6	857.1	852.5
85°	340.0	347.8	380.4	406.8	436.4	464.2	484.5	503.0	521.7	521.7	518.6
87.5°	102.5	91.6	110.3	121.0	136.7	150.6	160.0	178.5	190.9	177.0	177.0
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°	546.5	546.5	546.5	546.5	546.5	546.5	546.5	546.5
2.5°	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7
5°	571.3	572.9	572.9	574.6	574.6	574.6	574.6	574.6
7.5°	577.6	577.6	577.6	577.6	579.2	579.2	579.2	579.2
10°	596.2	597.9	596.2	596.2	593.1	591.6	591.6	591.6
12.5°	622.7	624.2	624.2	621.1	617.9	614.9	613.3	611.8
15°	647.5	652.1	649.0	647.5	644.4	646.0	646.0	647.5
17.5°	686.2	687.8	683.2	680.1	678.6	681.7	684.7	686.2
20°	753.1	750.0	740.6	737.6	734.4	734.4	737.6	737.6
22.5°	795.0	787.2	780.9	777.9	777.9	777.9	773.3	767.0
25°	824.4	819.9	815.1	818.3	821.4	816.6	805.9	804.2
27.5°	864.9	855.6	854.0	852.5	854.0	850.8	849.3	843.1
30°	917.6	905.2	902.1	899.1	889.7	886.5	889.7	894.3
32.5°	967.2	959.6	962.6	956.5	939.4	933.2	936.3	934.8
35°	1038.8	1024.7	1024.7	1012.3	1007.7	1006.2	993.8	982.9
37.5°	1152.0	1133.5	1128.7	1100.8	1088.4	1091.5	1074.5	1062.1
40°	1290.2	1276.3	1263.9	1232.8	1215.8	1194.0	1183.1	1183.1
42.5°	1381.8	1372.5	1355.5	1333.7	1315.0	1277.8	1263.9	1271.7
45°	1482.8	1470.4	1434.7	1412.9	1395.8	1369.4	1354.0	1338.3
47.5°	1585.3	1568.2	1526.3	1498.3	1458.0	1450.2	1433.2	1411.4
50°	1675.4	1669.1	1639.5	1593.0	1541.8	1529.4	1513.9	1493.7
52.5°	1785.6	1748.3	1723.5	1703.3	1645.8	1605.5	1583.8	1593.0
55°	1965.8	1919.2	1855.4	1791.9	1779.4	1731.2	1676.9	1706.4
57.5°	2069.8	2043.3	1995.2	1894.2	1844.6	1811.9	1776.2	1749.9
60°	2094.6	2046.5	2035.6	1959.5	1880.3	1811.9	1826.0	1763.8
62.5°	2142.7	2077.4	2016.9	1956.4	1908.3	1815.1	1811.9	1779.4
63°	2158.2	2093.1	2029.3	1956.4	1912.9	1826.0	1808.9	1791.9
65°	2155.1	2099.2	2051.1	1956.4	1891.1	1857.0	1773.2	1811.9
67.5°	2096.1	2049.6	1993.6	1928.4	1819.7	1793.4	1734.4	1742.0
70°	2001.5	1940.8	1888.1	1827.6	1740.5	1680.0	1644.3	1614.7
72.5°	1853.9	1799.5	1743.6	1687.8	1610.1	1537.2	1512.2	1479.8
75°	1658.2	1605.5	1554.2	1501.5	1428.4	1363.3	1336.8	1313.5
77.5°	1434.7	1389.7	1316.7	1266.9	1225.1	1155.2	1130.4	1105.4
80°	1144.4	1122.6	1069.7	1004.6	982.9	914.5	895.8	863.2
82.5°	832.3	810.5	768.5	723.5	697.1	661.4	630.3	608.7
85°	507.8	484.5	462.7	422.3	406.8	380.4	355.6	343.2
87.5°	183.2	164.5	147.6	128.9	119.5	101.0	97.7	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)