

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: P197858

Luminaire Tested: **TT-C4-LED-E1-WQ-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197858
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-C4-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: 6551.8 lumens
Efficiency: N/A
Efficacy: 113.0 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): 58
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



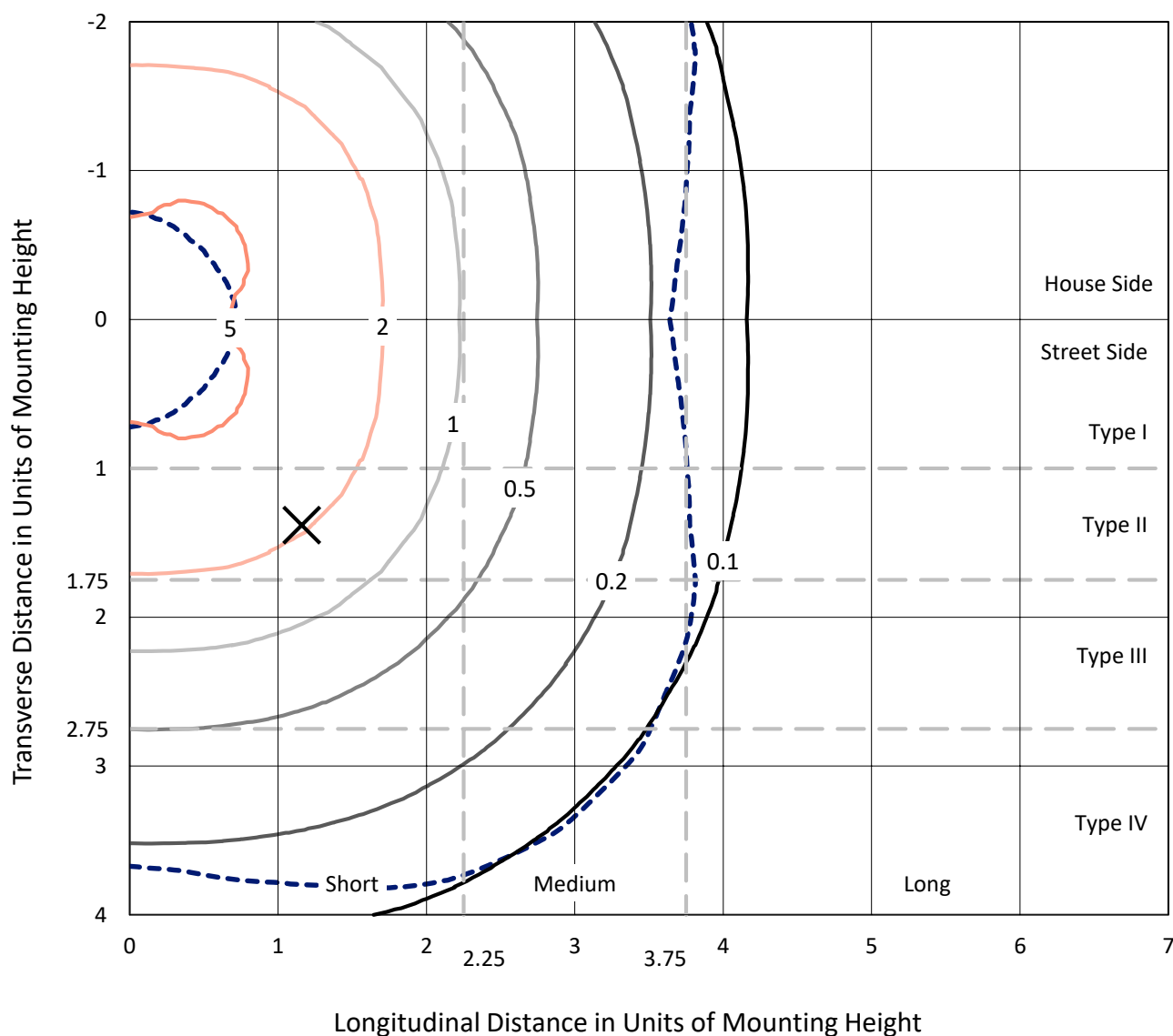
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

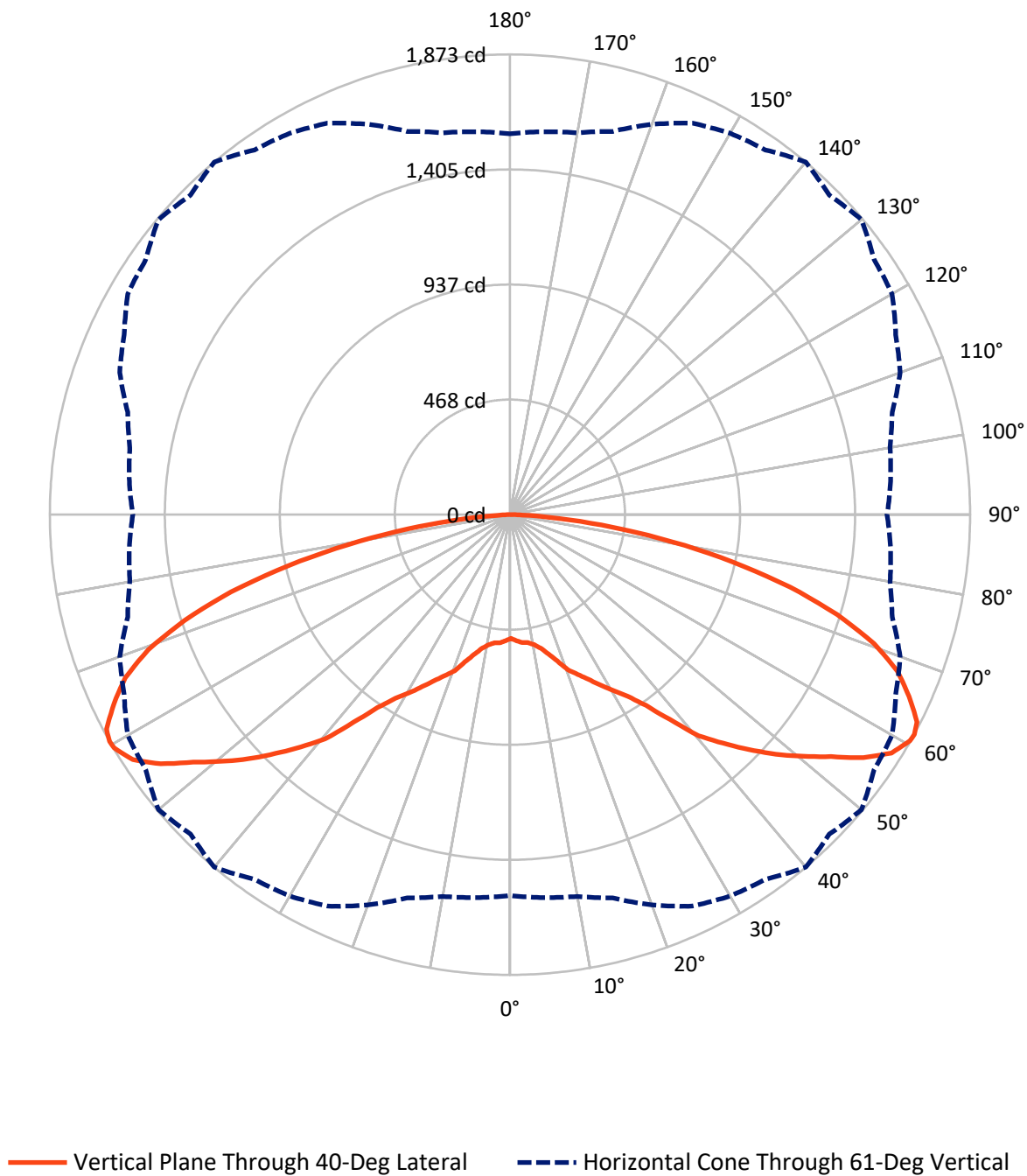


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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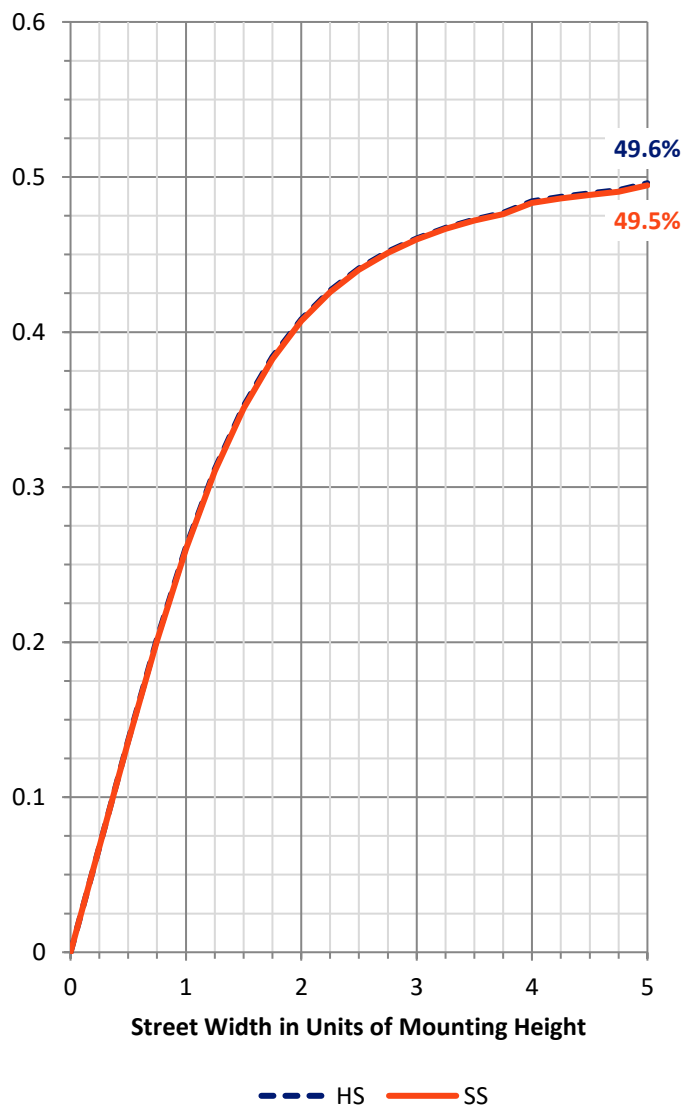
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3275.9	0.0	3275.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3275.9	0.0	3275.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6551.8	0.0	6551.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	0.8
10°-20°	169.4	2.6
20°-30°	343.6	5.2
30°-40°	597.5	9.1
40°-50°	1005.8	15.4
50°-60°	1449.0	22.1
60°-70°	1607.9	24.5
70°-80°	1092.0	16.7
80°-90°	236.5	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°	6551.8	100.0
0°-180°	6551.8	100.0

Coefficient of Utilization



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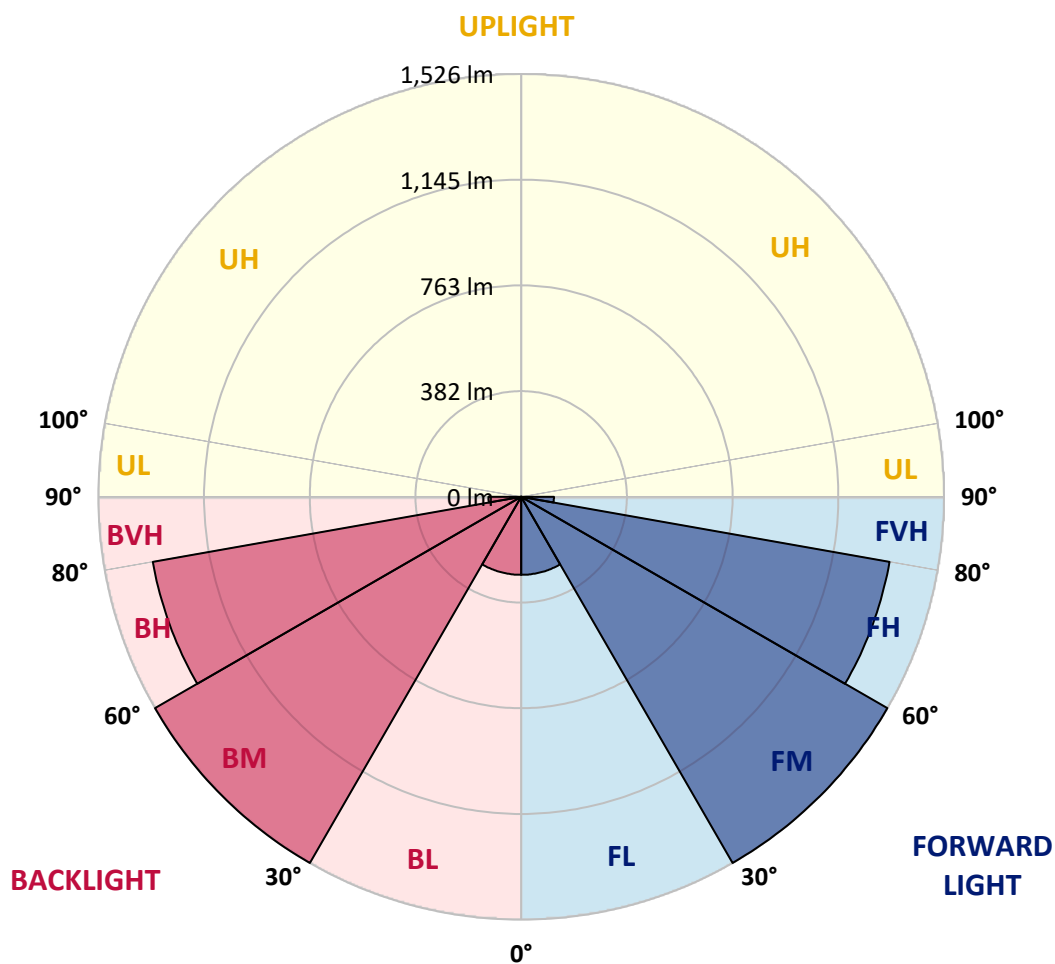
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.6	4.3			
FM	(30°-60°)	1526.1	23.3			
FH	(60°-80°)	1349.9	20.6			G1/1800
FVH	(80°-90°)	118.3	1.8			G2/225
BL	(0°-30°)	281.6	4.3	B1/500		
BM	(30°-60°)	1526.1	23.3	B2/2500		
BH	(60°-80°)	1349.9	20.6	B3/2500		G1/1800
BVH	(80°-90°)	118.3	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°	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3
2.5°	515.3	515.3	515.3	515.3	515.3	513.9	515.3	513.9	513.9	513.9	513.9
5°	519.2	520.6	520.6	520.6	520.6	521.9	521.9	523.2	523.2	523.2	523.2
7.5°	523.2	523.2	523.2	523.2	523.2	523.2	524.5	524.5	525.9	525.9	527.2
10°	539.1	539.1	540.4	540.4	539.1	539.1	539.1	537.8	537.8	536.5	536.5
12.5°	561.6	561.6	563.0	564.3	564.3	563.0	561.6	559.0	557.7	557.7	557.7
15°	578.9	580.2	582.8	585.5	586.8	586.8	588.1	588.1	588.1	586.8	585.5
17.5°	612.0	612.0	613.3	614.6	614.6	615.9	618.6	621.2	626.5	627.9	623.9
20°	659.7	661.0	665.0	663.6	663.6	666.3	668.9	670.2	674.2	676.9	676.9
22.5°	695.4	698.1	703.4	703.4	702.0	703.4	706.0	706.0	706.0	704.7	707.3
25°	723.2	725.9	729.9	729.9	732.5	739.1	747.1	745.8	741.8	741.8	740.5
27.5°	760.3	761.6	764.3	764.3	768.3	772.2	777.5	782.8	785.5	784.2	781.5
30°	806.7	809.3	812.0	808.0	814.6	818.6	821.3	821.3	831.9	837.1	827.9
32.5°	841.1	846.4	851.7	855.7	868.9	875.6	871.6	875.6	880.9	886.2	886.2
35°	898.1	903.4	907.4	910.0	923.2	932.5	943.1	953.7	952.4	948.4	956.4
37.5°	980.2	985.5	989.5	994.8	1012.0	1018.6	1026.6	1049.1	1057.0	1046.4	1051.7
40°	1067.6	1076.9	1090.1	1106.0	1131.2	1139.2	1152.4	1168.3	1182.9	1188.2	1174.9
42.5°	1143.1	1153.7	1156.4	1181.5	1212.0	1235.9	1254.4	1258.4	1271.6	1283.5	1274.3
45°	1223.9	1233.2	1239.8	1261.0	1278.2	1311.4	1341.8	1356.4	1363.0	1361.7	1372.3
47.5°	1299.4	1310.0	1319.3	1341.8	1363.0	1390.8	1410.7	1445.1	1457.1	1441.2	1458.4
50°	1345.8	1359.0	1371.0	1413.4	1450.4	1479.6	1495.5	1524.6	1545.8	1535.2	1539.2
52.5°	1422.6	1427.9	1437.2	1461.0	1510.0	1577.6	1593.5	1609.4	1635.9	1649.1	1625.3
55°	1520.6	1535.2	1548.5	1578.9	1604.1	1654.4	1727.3	1747.2	1745.8	1786.9	1749.8
57.5°	1541.8	1563.0	1589.5	1645.2	1694.2	1723.3	1769.7	1825.3	1830.6	1833.3	1838.6
60°	1544.5	1557.7	1575.0	1621.3	1707.4	1760.4	1786.9	1822.7	1870.3	1835.9	1871.7
61°	1549.8	1564.4	1577.6	1614.7	1690.2	1757.8	1792.2	1812.1	1873.0	1838.6	1867.7
62.5°	1540.5	1557.7	1577.6	1613.4	1663.7	1732.6	1798.8	1798.8	1859.7	1837.2	1853.1
65°	1484.9	1500.8	1539.2	1585.6	1646.5	1682.2	1751.1	1794.8	1785.6	1825.3	1785.6
67.5°	1390.8	1404.1	1437.2	1491.5	1557.7	1608.1	1639.9	1710.1	1700.8	1741.9	1696.8
70°	1258.4	1275.6	1316.7	1353.7	1416.0	1469.0	1511.4	1553.8	1572.3	1568.3	1571.0
72.5°	1099.4	1111.3	1148.4	1189.5	1238.5	1298.1	1336.5	1363.0	1392.2	1390.8	1396.1
75°	915.3	925.9	957.7	988.2	1035.8	1082.2	1125.9	1153.7	1177.6	1176.2	1171.0
77.5°	706.0	717.9	753.7	780.2	802.7	854.4	887.5	906.0	925.9	925.9	928.5
80°	492.8	500.7	528.5	556.3	577.5	602.7	645.1	649.1	671.6	666.3	671.6
82.5°	296.7	302.0	323.2	339.1	353.7	377.5	397.4	405.3	418.6	413.3	421.2
85°	133.8	136.4	149.7	159.0	165.6	178.8	189.4	193.4	200.0	198.7	204.0
87.5°	27.8	30.5	34.4	37.1	38.4	43.7	47.7	47.7	50.3	50.3	51.7
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°	503.3	503.3	503.3	503.3	503.3	503.3	503.3	503.3
2.5°	513.9	515.3	513.9	513.9	513.9	515.3	513.9	515.3
5°	523.2	523.2	523.2	521.9	520.6	520.6	520.6	519.2
7.5°	528.5	528.5	527.2	525.9	524.5	525.9	525.9	525.9
10°	539.1	541.8	543.1	543.1	541.8	541.8	541.8	540.4
12.5°	557.7	559.0	563.0	564.3	565.6	564.3	560.3	559.0
15°	582.8	582.8	584.2	586.8	586.8	581.5	577.5	576.2
17.5°	618.6	617.3	614.6	614.6	615.9	613.3	609.3	609.3
20°	672.9	667.6	665.0	661.0	665.0	665.0	657.0	653.0
22.5°	711.3	706.0	699.4	695.4	700.7	704.7	695.4	690.1
25°	744.4	745.8	735.2	729.9	731.2	733.8	721.9	720.6
27.5°	778.9	781.5	776.2	766.9	764.3	769.6	760.3	757.7
30°	821.3	819.9	822.6	810.7	805.4	809.3	808.0	801.4
32.5°	876.9	870.3	872.9	862.3	851.7	851.7	843.8	835.8
35°	953.7	939.1	932.5	925.9	906.0	907.4	900.7	894.1
37.5°	1054.4	1031.9	1013.3	1017.3	988.2	985.5	981.5	972.3
40°	1169.6	1159.0	1137.8	1125.9	1095.4	1080.9	1075.6	1058.4
42.5°	1255.7	1258.4	1226.6	1205.4	1181.5	1156.4	1153.7	1136.5
45°	1348.4	1339.2	1310.0	1275.6	1265.0	1234.5	1230.6	1213.3
47.5°	1441.2	1409.4	1392.2	1356.4	1339.2	1300.8	1303.4	1287.5
50°	1528.6	1491.5	1475.6	1433.2	1406.7	1368.3	1359.0	1332.6
52.5°	1621.3	1586.9	1561.7	1507.4	1469.0	1439.8	1423.9	1413.4
55°	1745.8	1711.4	1654.4	1604.1	1572.3	1524.6	1519.3	1500.8
57.5°	1804.1	1778.9	1716.7	1680.9	1624.0	1575.0	1559.1	1522.0
60°	1810.7	1800.1	1733.9	1699.5	1616.0	1576.3	1556.4	1533.9
61°	1809.4	1796.2	1732.6	1690.2	1610.7	1571.0	1555.1	1535.2
62.5°	1804.1	1788.2	1718.0	1674.3	1600.1	1561.7	1548.5	1519.3
65°	1786.9	1743.2	1682.2	1642.5	1561.7	1527.3	1495.5	1466.3
67.5°	1711.4	1629.3	1604.1	1553.8	1471.6	1433.2	1404.1	1378.9
70°	1549.8	1495.5	1469.0	1406.7	1340.5	1308.7	1275.6	1243.8
72.5°	1360.4	1324.6	1302.1	1226.6	1177.6	1145.8	1115.3	1084.9
75°	1148.4	1121.9	1080.9	1023.9	980.2	948.4	920.6	906.0
77.5°	902.1	884.8	853.0	796.1	772.2	744.4	716.6	694.1
80°	649.1	635.8	610.6	569.6	549.7	521.9	502.0	483.5
82.5°	404.0	393.4	378.8	348.4	340.4	323.2	304.7	291.4
85°	193.4	186.8	181.5	161.6	160.3	145.7	139.1	131.1
87.5°	50.3	49.0	46.4	39.7	38.4	34.4	31.8	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)