

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: P197937

Luminaire Tested: **TT-C6-LED-E1-WQ-SG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-WQ-SG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8088.8 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 108
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

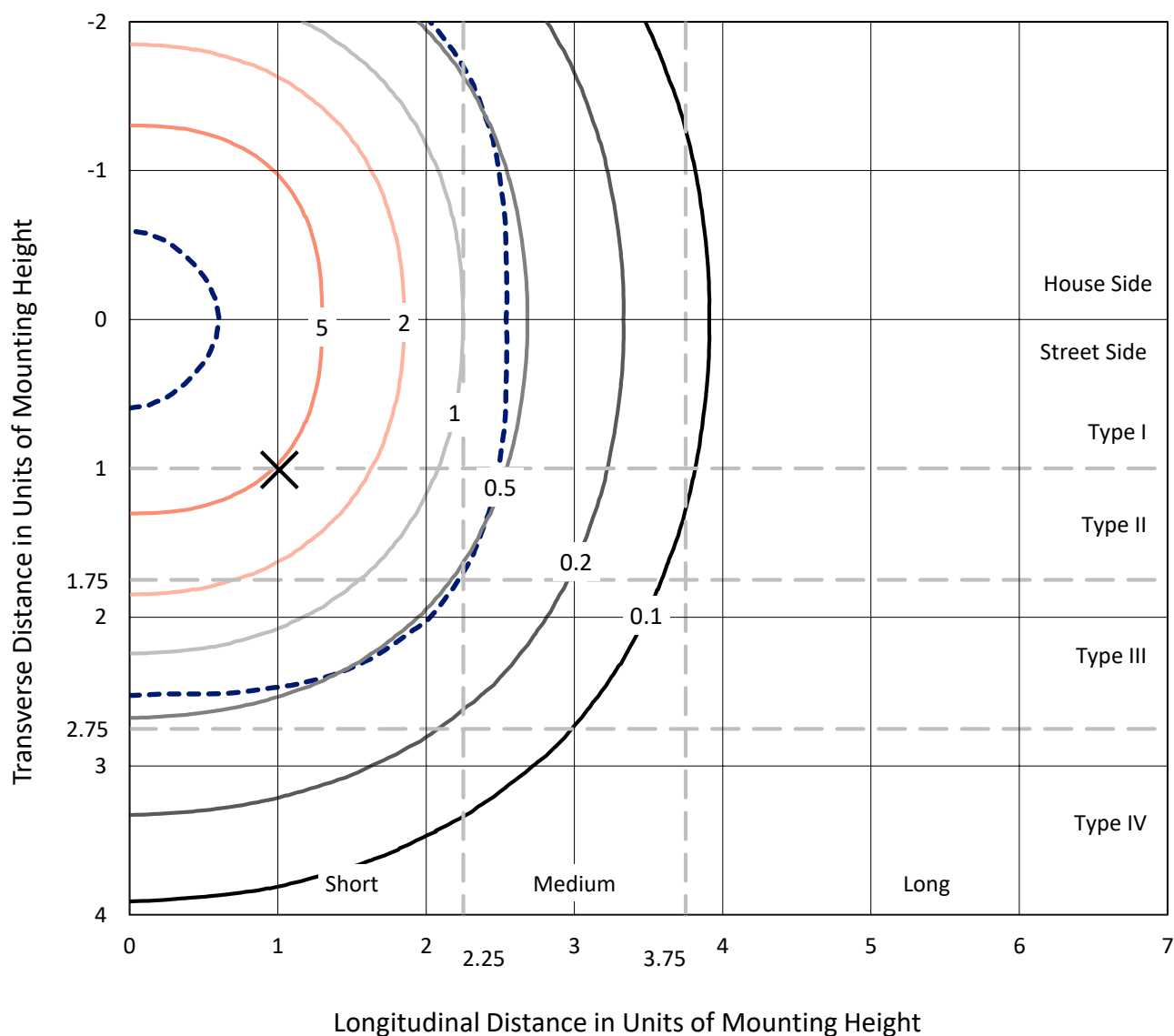


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

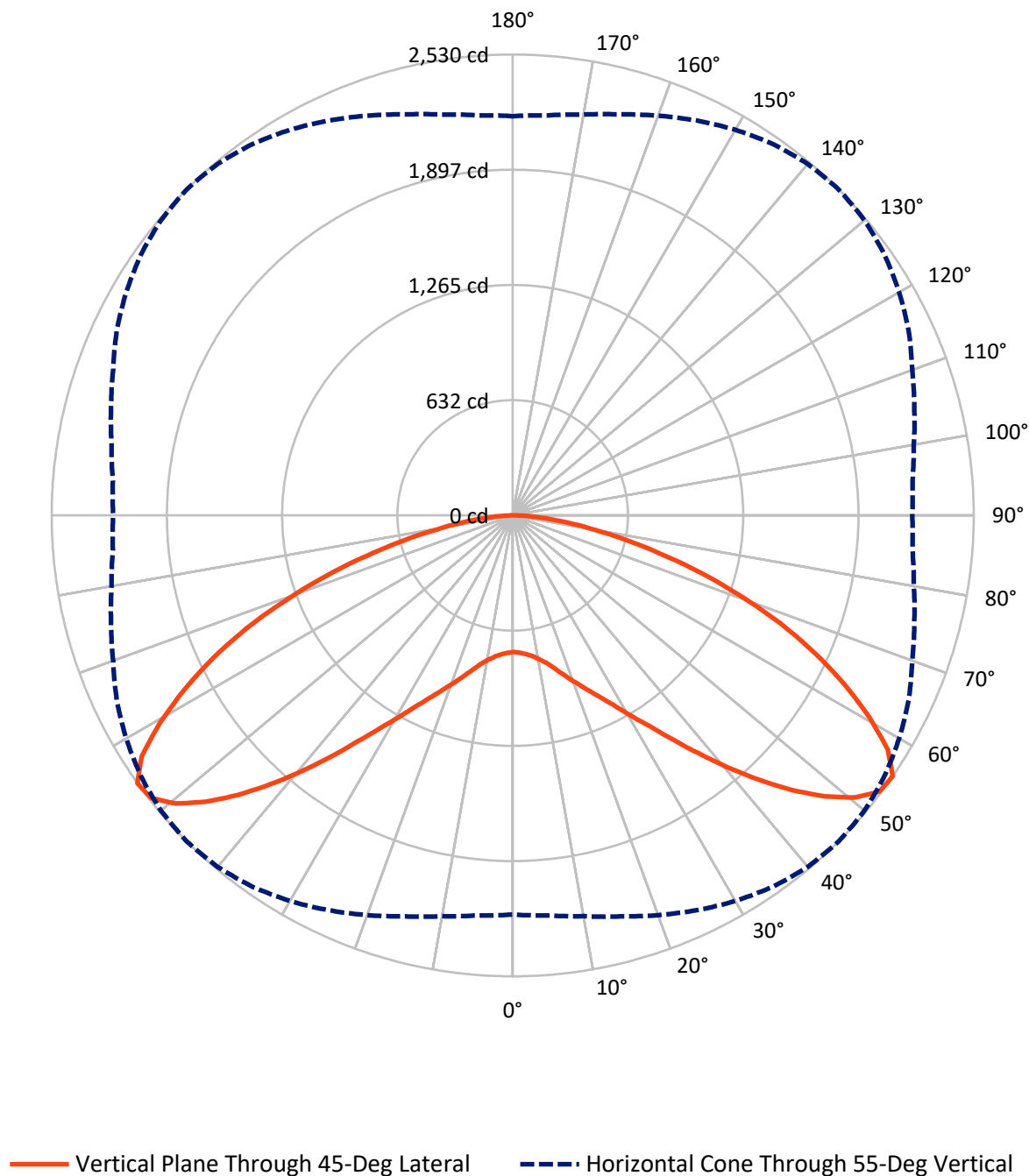


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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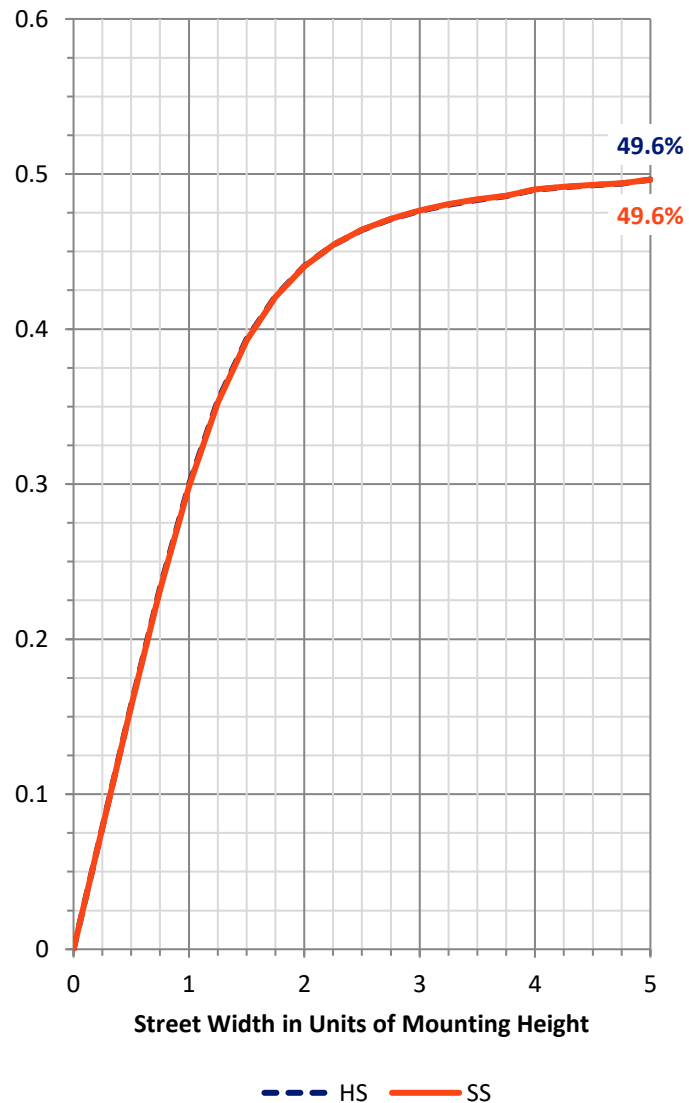
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4044.4	0.0	4044.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4044.4	0.0	4044.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8088.8	0.0	8088.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	0.9
10°-20°	251.1	3.1
20°-30°	511.3	6.3
30°-40°	933.8	11.5
40°-50°	1585.5	19.6
50°-60°	2064.8	25.5
60°-70°	1670.0	20.6
70°-80°	820.6	10.1
80°-90°	177.6	2.2
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°	8088.8	100.0
0°-180°	8088.8	100.0

Coefficient of Utilization



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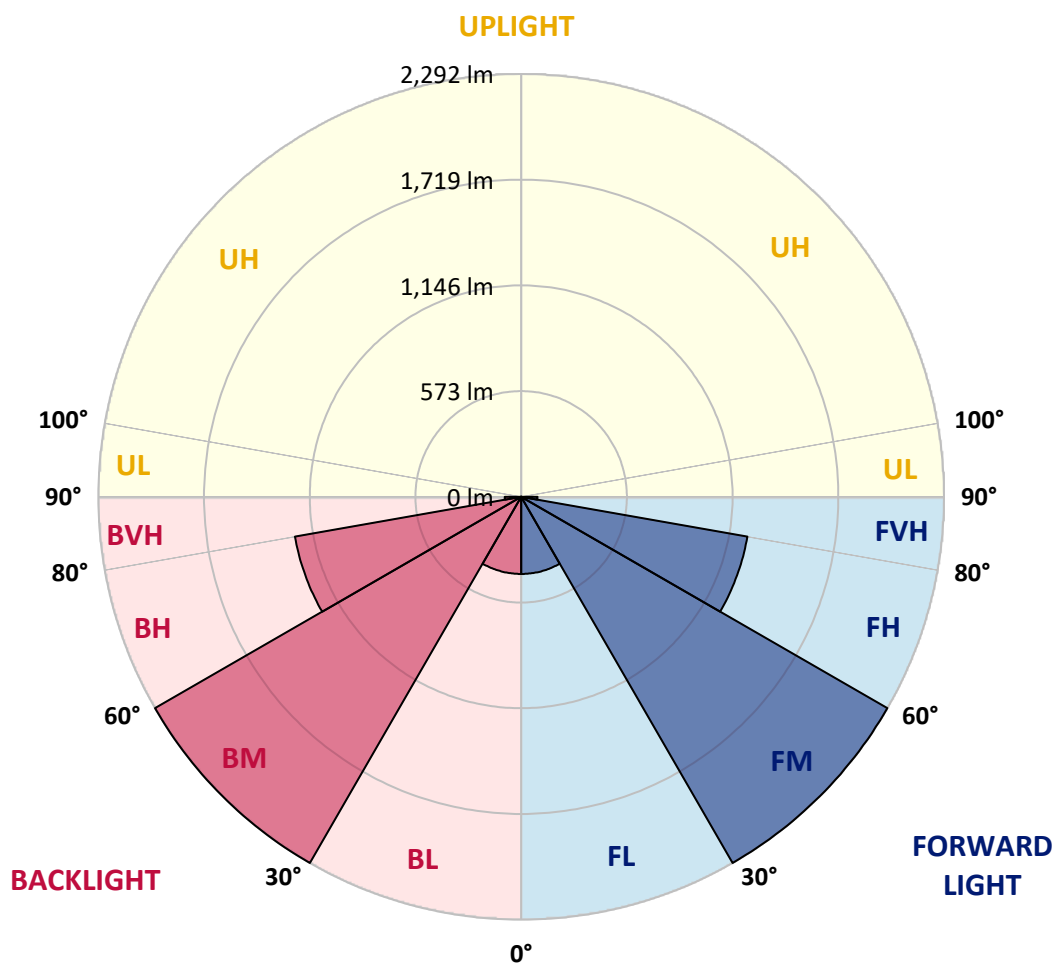
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.2	5.2			
FM	(30°-60°)	2292.1	28.3			
FH	(60°-80°)	1245.3	15.4			G1/1800
FVH	(80°-90°)	88.8	1.1			G1/100
BL	(0°-30°)	418.2	5.2	B1/500		
BM	(30°-60°)	2292.1	28.3	B2/2500		
BH	(60°-80°)	1245.3	15.4	B3/2500		G1/1800
BVH	(80°-90°)	88.8	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	749.5	749.5	749.5	749.5	749.5	749.5	749.5	749.5	749.5	749.5	749.5
2.5°	752.8	752.8	752.8	752.8	752.8	752.8	754.5	754.5	754.5	754.5	754.5
5°	762.7	762.7	762.7	764.4	764.4	764.4	764.4	764.4	764.4	764.4	764.4
7.5°	777.6	776.0	777.6	777.6	777.6	779.3	779.3	777.6	779.3	779.3	779.3
10°	799.1	797.5	799.1	799.1	799.1	800.8	800.8	800.8	800.8	802.4	802.4
12.5°	830.6	828.9	830.6	832.2	830.6	832.2	832.2	832.2	832.2	832.2	832.2
15°	870.3	868.6	870.3	871.9	870.3	873.6	873.6	871.9	871.9	873.6	873.6
17.5°	918.3	915.0	916.6	918.3	918.3	921.6	921.6	919.9	921.6	923.2	921.6
20°	967.9	964.6	966.2	971.2	971.2	972.9	976.2	974.5	976.2	977.8	976.2
22.5°	1022.5	1020.8	1022.5	1027.5	1027.5	1029.1	1034.1	1034.1	1034.1	1035.7	1034.1
25°	1082.1	1080.4	1082.1	1087.0	1087.0	1090.3	1097.0	1097.0	1098.6	1100.3	1098.6
27.5°	1151.6	1149.9	1153.2	1158.2	1159.8	1164.8	1173.1	1174.7	1176.4	1178.0	1174.7
30°	1232.6	1229.3	1234.3	1242.6	1245.9	1252.5	1262.4	1265.7	1267.4	1272.3	1269.0
32.5°	1325.3	1322.0	1328.6	1338.5	1343.5	1353.4	1366.6	1370.0	1374.9	1378.2	1373.3
35°	1434.5	1432.8	1439.4	1454.3	1462.6	1474.2	1492.4	1497.4	1500.7	1507.3	1500.7
37.5°	1555.3	1553.6	1565.2	1581.7	1596.6	1614.8	1634.7	1643.0	1647.9	1656.2	1647.9
40°	1689.3	1687.6	1702.5	1722.4	1740.6	1763.7	1788.5	1800.1	1810.1	1818.3	1808.4
42.5°	1826.6	1826.6	1844.8	1866.3	1892.8	1920.9	1949.0	1962.3	1978.8	1983.8	1972.2
45°	1959.0	1960.6	1978.8	2005.3	2043.3	2079.7	2111.2	2127.7	2145.9	2150.9	2136.0
47.5°	2084.7	2086.4	2102.9	2137.7	2180.7	2222.0	2260.1	2283.3	2301.5	2303.1	2291.5
50°	2187.3	2193.9	2215.4	2246.9	2291.5	2334.5	2380.9	2410.7	2428.9	2433.8	2422.2
52.5°	2227.0	2238.6	2263.4	2303.1	2354.4	2399.1	2450.4	2488.4	2509.9	2518.2	2508.3
55°	2190.6	2203.8	2233.6	2278.3	2334.5	2390.8	2443.7	2488.4	2518.2	2529.8	2519.9
57.5°	2109.5	2111.2	2141.0	2185.6	2236.9	2294.8	2346.1	2387.5	2415.6	2427.2	2425.5
60°	1968.9	1968.9	1997.0	2040.0	2079.7	2139.3	2182.3	2213.8	2233.6	2246.9	2243.5
62.5°	1780.3	1780.3	1805.1	1849.8	1889.5	1940.8	1982.1	2015.2	2028.5	2043.3	2046.7
65°	1570.2	1570.2	1593.3	1638.0	1674.4	1720.7	1760.4	1791.9	1805.1	1823.3	1820.0
67.5°	1346.8	1345.1	1366.6	1404.7	1439.4	1482.5	1520.5	1550.3	1565.2	1586.7	1571.8
70°	1116.8	1116.8	1135.0	1164.8	1189.6	1232.6	1269.0	1298.8	1310.4	1328.6	1320.3
72.5°	898.4	896.8	911.6	934.8	954.7	992.7	1014.2	1047.3	1057.2	1082.1	1068.8
75°	701.5	698.2	709.8	726.3	739.6	764.4	780.9	807.4	815.7	832.2	825.6
77.5°	527.8	526.1	531.1	542.7	552.6	572.5	579.1	592.3	598.9	615.5	602.2
80°	378.9	373.9	378.9	385.5	388.8	403.7	405.4	410.3	413.6	425.2	412.0
82.5°	254.8	248.2	251.5	256.5	256.5	264.7	266.4	264.7	271.3	274.7	268.0
85°	145.6	140.6	142.3	145.6	143.9	148.9	148.9	147.3	152.2	152.2	148.9
87.5°	48.0	44.7	46.3	48.0	48.0	49.6	51.3	49.6	52.9	52.9	49.6
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°	749.5	749.5	749.5	749.5	749.5	749.5	749.5	749.5
2.5°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
5°	764.4	764.4	764.4	764.4	764.4	762.7	762.7	762.7
7.5°	779.3	779.3	779.3	779.3	779.3	777.6	777.6	777.6
10°	802.4	800.8	800.8	800.8	800.8	799.1	800.8	799.1
12.5°	832.2	833.9	833.9	832.2	833.9	830.6	830.6	830.6
15°	873.6	871.9	871.9	871.9	871.9	870.3	870.3	870.3
17.5°	919.9	919.9	918.3	918.3	916.6	915.0	915.0	915.0
20°	974.5	972.9	971.2	969.6	967.9	964.6	962.9	962.9
22.5°	1030.8	1029.1	1027.5	1025.8	1024.2	1020.8	1017.5	1017.5
25°	1093.6	1090.3	1088.7	1085.4	1082.1	1078.8	1077.1	1075.4
27.5°	1169.8	1166.4	1161.5	1156.5	1149.9	1148.2	1144.9	1144.9
30°	1260.8	1255.8	1249.2	1240.9	1234.3	1227.7	1224.4	1222.7
32.5°	1366.6	1360.0	1348.4	1338.5	1326.9	1320.3	1315.4	1312.0
35°	1490.7	1480.8	1467.6	1452.7	1437.8	1426.2	1417.9	1417.9
37.5°	1636.3	1621.4	1601.6	1583.4	1561.9	1548.6	1538.7	1532.1
40°	1795.2	1773.7	1748.8	1725.7	1700.9	1682.7	1667.8	1669.4
42.5°	1952.3	1934.1	1904.4	1876.2	1844.8	1820.0	1801.8	1800.1
45°	2117.8	2094.6	2058.2	2021.8	1985.4	1955.7	1934.1	1930.8
47.5°	2271.7	2246.9	2203.8	2159.2	2119.5	2086.4	2063.2	2059.9
50°	2397.4	2367.6	2323.0	2275.0	2232.0	2195.6	2170.7	2164.1
52.5°	2478.5	2445.4	2397.4	2339.5	2293.2	2251.8	2222.0	2213.8
55°	2491.7	2448.7	2397.4	2332.9	2281.6	2235.3	2202.2	2192.3
57.5°	2400.7	2354.4	2308.1	2251.8	2200.5	2150.9	2124.4	2111.2
60°	2223.7	2187.3	2149.2	2097.9	2056.6	2010.3	1988.7	1982.1
62.5°	2020.2	1988.7	1954.0	1901.1	1866.3	1824.9	1805.1	1796.8
65°	1801.8	1765.4	1732.3	1689.3	1651.2	1616.5	1588.4	1585.0
67.5°	1560.2	1522.2	1494.0	1456.0	1417.9	1384.8	1366.6	1356.7
70°	1305.4	1274.0	1245.9	1204.5	1179.7	1148.2	1135.0	1125.1
72.5°	1052.3	1034.1	999.3	972.9	944.7	919.9	911.6	901.7
75°	814.0	792.5	766.0	749.5	728.0	714.8	708.1	701.5
77.5°	597.3	579.1	564.2	557.6	547.7	534.4	529.5	524.5
80°	413.6	405.4	395.4	393.8	387.2	377.2	375.6	373.9
82.5°	268.0	263.1	259.8	259.8	256.5	249.8	248.2	248.2
85°	148.9	147.3	148.9	147.3	143.9	140.6	140.6	140.6
87.5°	49.6	49.6	51.3	52.9	48.0	48.0	46.3	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)