

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632709

Luminaire Tested: GWS-SA2D-730-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-730-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8318.8 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

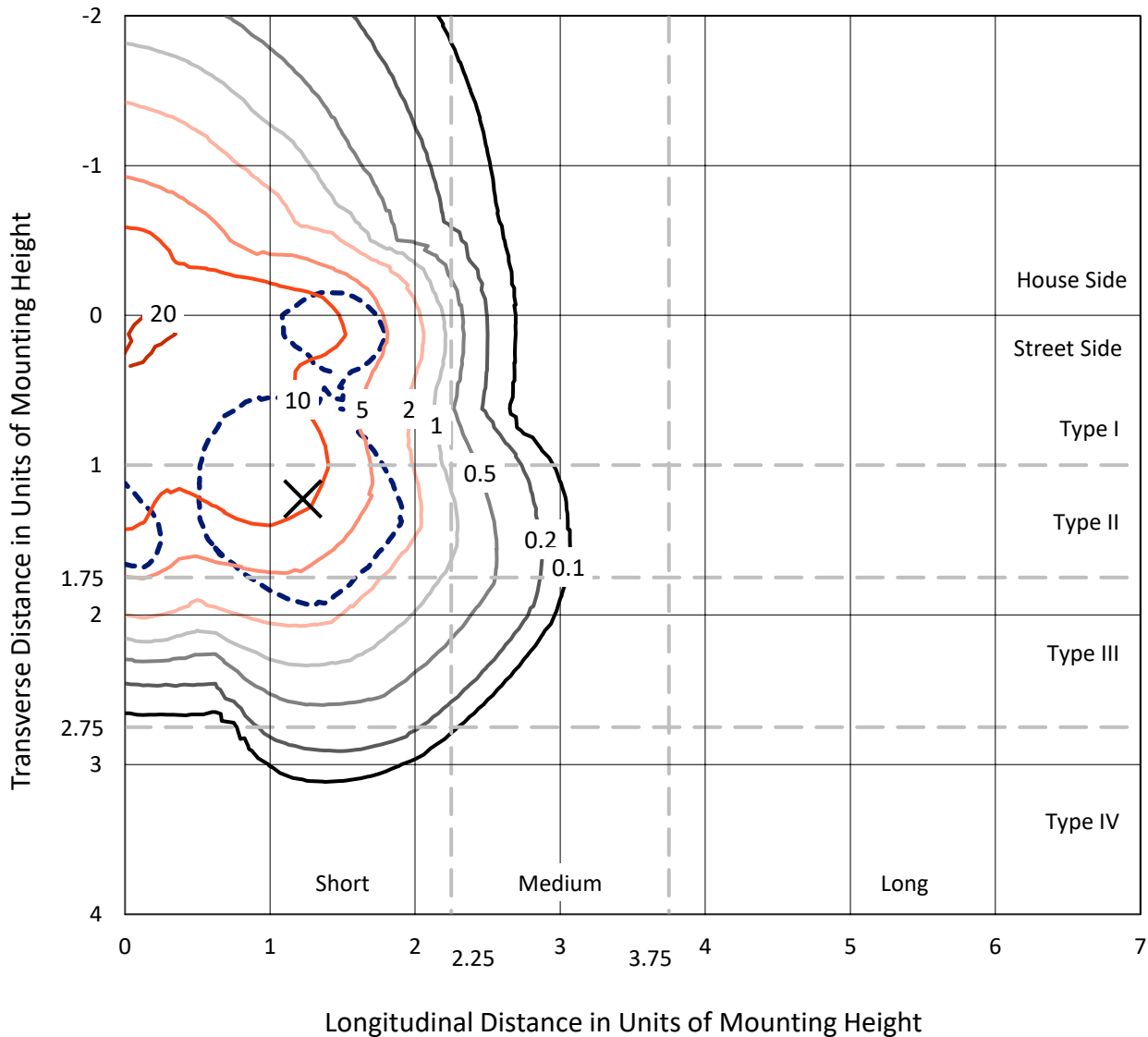


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### Iso-Footcandle Lines of Horizontal Illumination

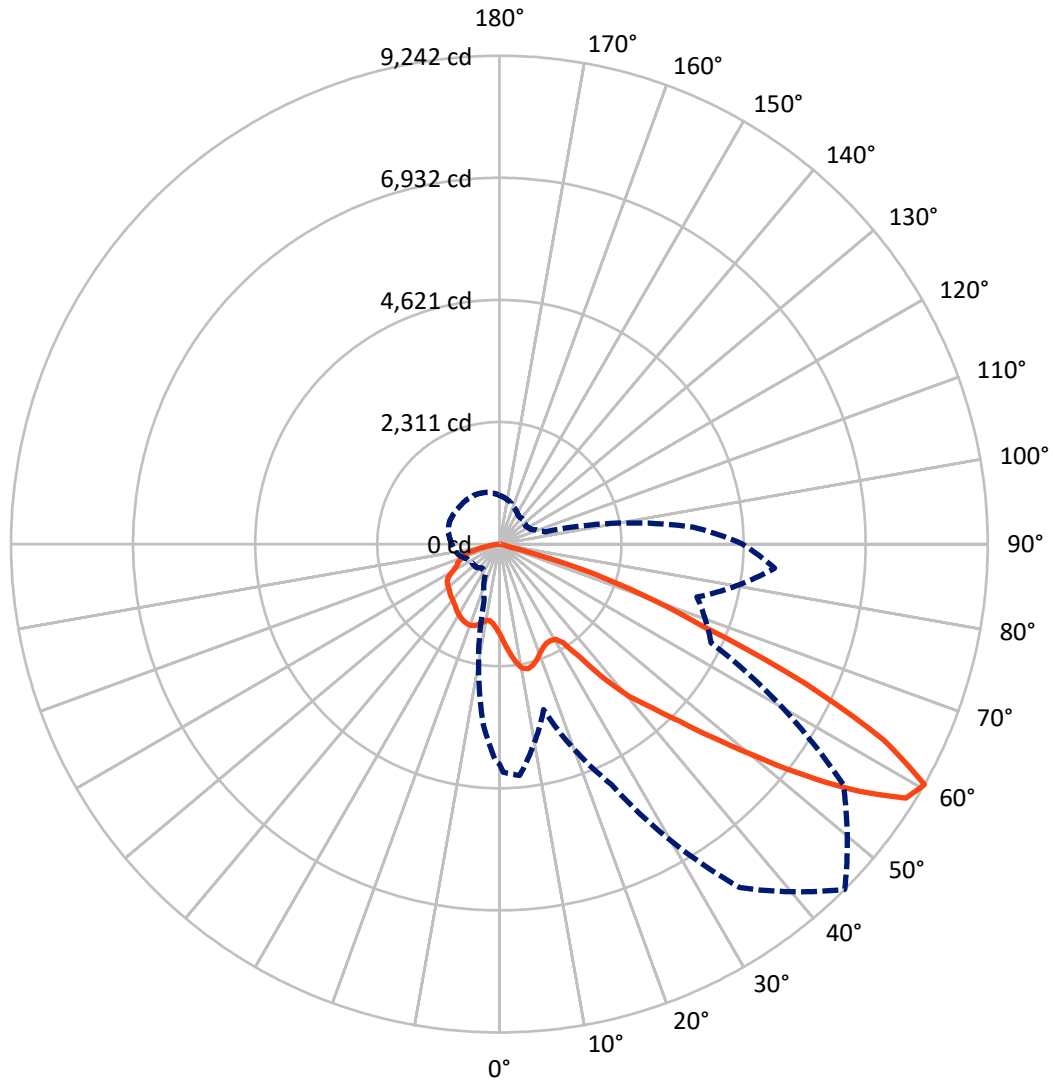
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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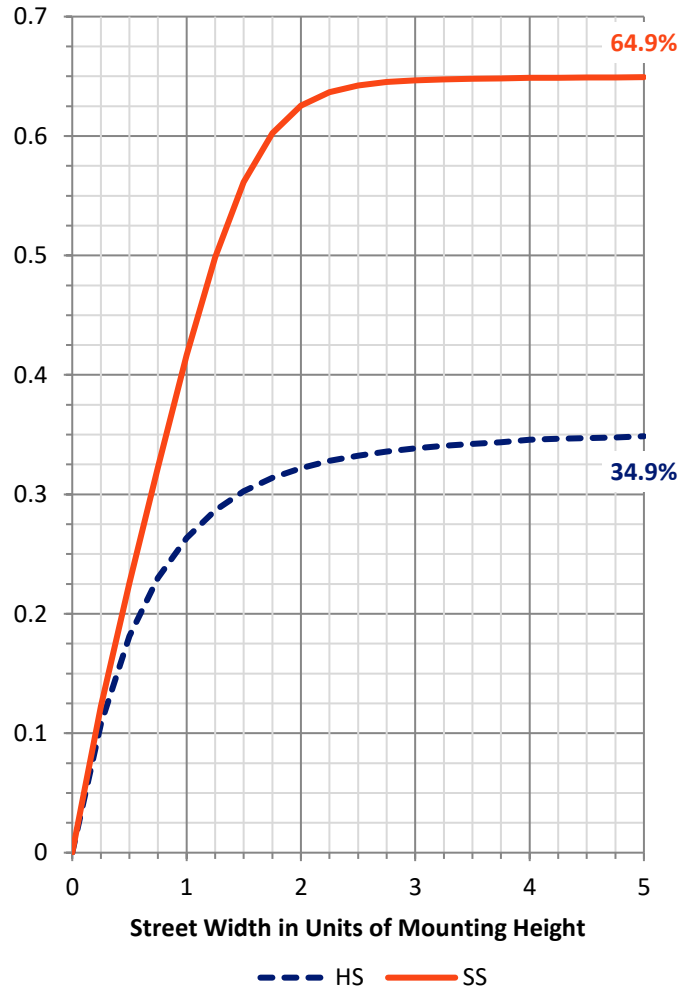
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2916.0	0.0	2916.0
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	5402.8	0.0	5402.8
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	8318.8	0.0	8318.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	2.0
10°-20°	526.9	6.3
20°-30°	855.9	10.3
30°-40°	1207.0	14.5
40°-50°	1668.1	20.1
50°-60°	2147.3	25.8
60°-70°	1360.5	16.4
70°-80°	349.1	4.2
80°-90°	37.3	0.4
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°	8318.8	100.0
0°-180°	8318.8	100.0

**Coefficient of Utilization**



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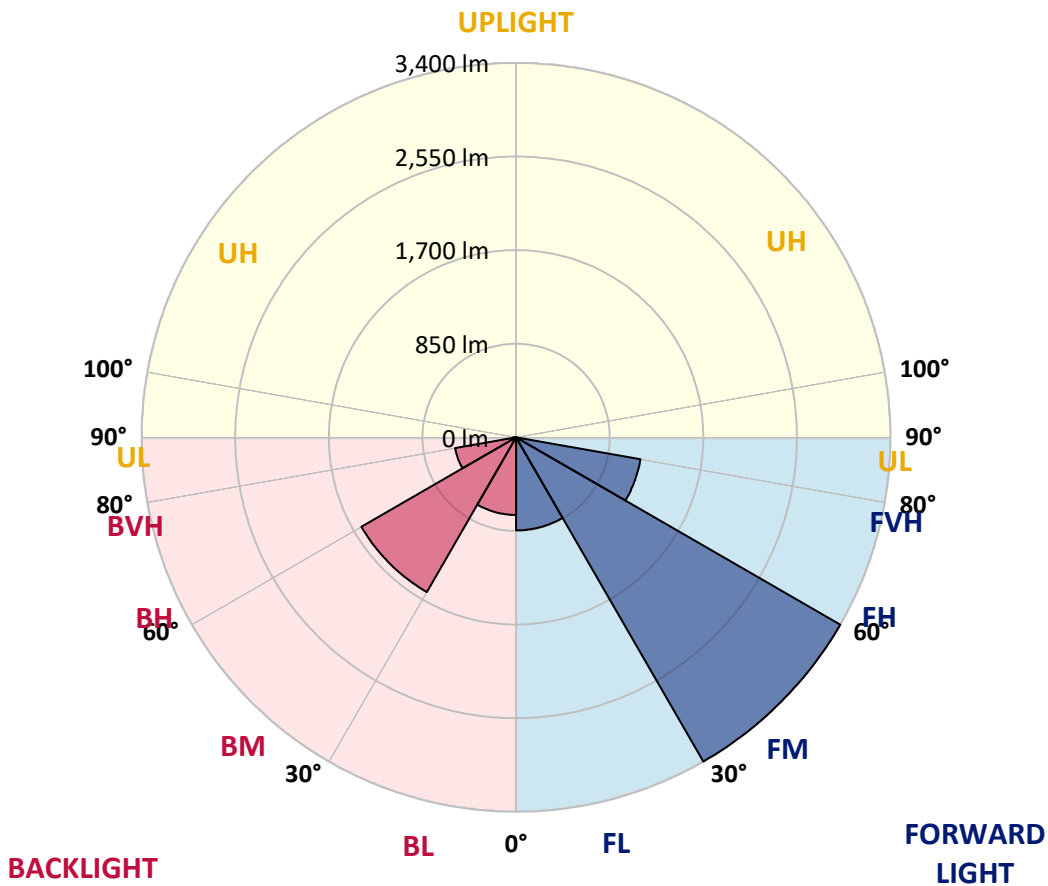
CATALOG NUMBER: GWS-SA2D-730-U-SLR-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.7	10.2			
FM (30°-60°)	3400.2	40.9			
FH (60°-80°)	1147.7	13.8			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	704.8	8.5	B2/1000		
BM (30°-60°)	1622.1	19.5	B2/2500		
BH (60°-80°)	561.9	6.8	B2/1000		G2/1000
BVH (80°-90°)	27.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9
2.5°	1787.4	1799.6	1807.3	1821.7	1847.7	1862.1	1878.1	1860.6	1865.2	1862.9	1834.7
5°	1893.4	1907.9	1927.7	1970.4	2018.4	2045.1	2070.2	2066.4	2042.8	2003.1	1974.9
7.5°	1992.5	2009.2	2043.5	2112.9	2183.8	2225.0	2255.4	2235.6	2215.8	2153.3	2082.4
10°	2070.2	2080.1	2126.6	2219.6	2301.9	2348.4	2385.8	2381.2	2353.8	2283.6	2188.4
12.5°	2143.4	2150.3	2200.6	2293.6	2367.5	2388.1	2418.6	2428.5	2419.3	2366.7	2273.0
15°	2221.9	2234.9	2281.4	2352.2	2385.8	2364.4	2375.1	2402.6	2428.5	2428.5	2342.3
17.5°	2295.1	2306.5	2353.8	2384.3	2352.2	2295.8	2298.9	2334.0	2395.7	2460.5	2405.6
20°	2359.9	2370.5	2417.0	2388.1	2286.7	2204.4	2202.1	2244.8	2344.6	2481.1	2473.4
22.5°	2430.8	2446.0	2484.9	2391.1	2225.7	2121.3	2120.5	2164.7	2299.7	2501.6	2551.2
25°	2531.4	2555.0	2574.8	2417.8	2192.9	2067.2	2077.1	2119.0	2285.2	2535.2	2666.3
27.5°	2680.8	2699.8	2698.3	2473.4	2191.4	2045.1	2065.7	2114.4	2311.1	2594.6	2787.5
30°	2842.4	2852.3	2836.3	2551.2	2226.5	2058.8	2089.3	2147.2	2376.6	2693.0	2965.8
32.5°	3021.5	3033.7	3003.2	2667.8	2308.0	2160.2	2227.2	2255.4	2468.9	2834.7	3154.9
35°	3227.3	3250.9	3187.7	2821.8	2548.1	2529.8	2627.4	2590.8	2664.8	3002.4	3356.9
37.5°	3443.8	3444.5	3353.8	3049.7	3019.2	3050.5	3245.6	3131.3	3080.2	3189.2	3562.7
40°	3627.5	3622.9	3483.4	3356.9	3429.3	3553.5	3789.1	3613.7	3479.6	3440.0	3733.4
42.5°	3811.2	3794.4	3653.4	3552.0	3712.1	3967.4	4233.4	4018.5	3735.7	3667.9	3901.9
45°	4045.9	4040.6	3870.6	3629.8	3967.4	4430.9	4783.8	4435.4	3887.4	3800.5	4182.4
47.5°	4424.8	4398.8	4082.5	3623.7	4206.8	5048.3	5494.2	4960.6	3993.3	3803.5	4635.1
50°	4795.2	4763.2	4335.6	3622.9	4453.7	5688.5	6332.6	5598.6	4101.6	3821.8	5095.5
52.5°	5169.5	5169.5	4751.0	3709.0	4712.9	6403.5	7301.4	6393.6	4286.0	4061.2	5661.9
55°	5392.0	5451.5	5218.2	3854.6	5016.3	7245.0	8259.6	7251.9	4571.1	4493.4	6184.8
57.5°	5109.2	5220.5	5187.0	3753.2	5195.4	7863.2	9072.1	7902.8	4712.1	4544.4	6106.2
60°	4163.3	4318.0	4395.0	3241.0	5018.5	7934.8	9242.1	7945.5	4420.9	3869.9	5230.4
62.5°	2767.7	2895.0	3012.3	2315.7	4344.7	7138.3	8174.2	7140.6	3692.3	2888.1	3623.7
65°	1357.5	1452.1	1578.6	1369.0	3394.2	5964.5	6373.0	5770.1	2670.9	1616.7	1848.4
67.5°	355.2	381.9	399.4	531.3	2431.5	4285.3	4156.5	4220.5	1715.8	528.2	483.3
70°	184.5	186.0	185.2	219.5	1643.4	2723.5	2864.5	2650.3	1197.5	221.0	190.6
72.5°	131.9	132.6	130.3	147.9	793.5	1560.3	1616.7	1599.2	627.3	131.1	130.3
75°	86.1	86.9	85.4	86.9	119.7	177.6	163.9	172.3	104.4	83.1	83.1
77.5°	51.1	51.8	51.1	52.6	51.1	51.1	47.3	47.3	45.0	45.0	45.7
80°	34.3	34.3	33.5	35.1	32.0	32.0	30.5	29.7	27.4	26.7	26.7
82.5°	20.6	21.3	20.6	20.6	19.1	19.1	17.5	16.8	14.5	14.5	13.7
85°	10.7	10.7	9.9	9.9	8.4	7.6	6.1	6.1	4.6	3.8	3.8
87.5°	1.5	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9
2.5°	1827.1	1811.8	1789.0	1766.9	1746.3	1724.9	1700.5	1675.4	1654.0	1631.9	1620.5
5°	1937.6	1906.3	1846.9	1794.3	1747.0	1708.2	1666.2	1630.4	1596.9	1569.4	1555.7
7.5°	2037.4	1988.7	1898.7	1815.6	1751.6	1698.3	1640.3	1587.0	1542.0	1508.5	1495.5
10°	2129.7	2071.7	1953.6	1848.4	1773.7	1714.3	1643.4	1571.0	1511.5	1467.3	1456.6
12.5°	2204.4	2138.1	1997.0	1875.1	1786.7	1722.6	1660.1	1597.6	1538.9	1481.8	1472.6
15°	2270.7	2192.2	2029.8	1891.9	1782.1	1700.5	1647.9	1640.3	1640.3	1575.5	1557.2
17.5°	2327.9	2241.7	2056.5	1899.5	1753.1	1635.0	1603.0	1669.3	1744.0	1697.5	1656.3
20°	2393.4	2289.0	2078.6	1899.5	1699.8	1551.9	1548.9	1661.7	1772.2	1773.0	1729.5
22.5°	2459.7	2343.9	2104.5	1892.6	1626.6	1455.9	1512.3	1631.2	1729.5	1771.4	1741.7
25°	2567.2	2420.1	2145.7	1887.3	1541.2	1390.3	1479.5	1590.8	1673.9	1718.1	1699.0
27.5°	2703.6	2520.7	2208.2	1895.7	1456.6	1351.4	1444.4	1538.2	1613.6	1652.5	1638.8
30°	2856.1	2636.6	2275.3	1910.2	1395.6	1331.6	1402.5	1478.0	1545.0	1583.9	1577.8
32.5°	3050.5	2762.3	2333.2	1890.3	1361.3	1321.7	1358.3	1412.4	1477.2	1501.6	1506.9
35°	3282.9	2901.1	2377.4	1812.6	1330.1	1311.0	1310.3	1343.8	1389.5	1428.4	1432.2
37.5°	3497.1	3063.4	2426.2	1679.2	1273.7	1284.4	1253.9	1273.7	1318.7	1357.5	1372.8
40°	3709.0	3228.1	2494.0	1509.2	1199.8	1224.9	1189.1	1202.8	1238.6	1289.7	1314.1
42.5°	3914.8	3376.7	2565.7	1335.4	1125.8	1141.8	1115.1	1128.9	1166.2	1230.2	1257.7
45°	4138.9	3577.9	2621.3	1171.6	1061.8	1054.9	1033.6	1053.4	1109.8	1179.9	1212.7
47.5°	4562.7	3895.0	2657.9	1062.6	1027.5	977.9	953.6	996.2	1060.3	1131.2	1170.8
50°	5080.3	4353.9	2647.2	993.2	997.8	898.7	890.3	946.7	1015.3	1089.2	1132.7
52.5°	5490.4	4804.4	2526.0	926.9	939.8	848.4	824.0	906.3	971.8	1047.3	1092.3
55°	5803.6	4956.0	2154.1	848.4	845.3	811.8	760.7	864.4	928.4	998.5	1047.3
57.5°	5548.3	4618.4	1596.9	740.1	721.8	739.4	689.8	793.5	875.0	944.4	987.9
60°	4604.6	3682.3	889.5	655.5	603.7	646.4	638.8	718.8	817.1	890.3	927.6
62.5°	3125.9	2452.1	527.5	518.3	489.4	550.3	590.7	643.3	740.1	799.6	834.6
65°	1558.0	1191.4	350.6	388.0	391.8	452.8	529.0	586.9	667.7	728.7	763.8
67.5°	452.0	370.4	266.8	296.5	337.7	386.5	447.4	516.0	594.5	667.0	708.1
70°	195.1	197.4	211.9	247.0	287.4	337.7	398.6	465.7	532.0	587.7	618.9
72.5°	138.0	143.3	159.3	195.1	233.2	281.3	342.2	407.0	455.1	511.5	544.2
75°	88.4	92.2	105.2	132.6	160.8	207.3	265.3	324.7	374.3	414.7	445.9
77.5°	48.8	49.5	60.2	76.2	95.3	125.0	167.7	214.2	250.8	273.6	301.8
80°	28.2	28.2	33.5	43.4	54.9	73.2	96.8	119.7	141.8	156.3	170.0
82.5°	15.2	15.2	17.5	23.6	29.7	40.4	54.1	65.6	79.3	86.9	96.0
85°	4.6	4.6	6.1	8.4	10.7	15.2	21.3	27.4	33.5	38.9	44.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9
2.5°	1618.2	1607.5	1601.5	1593.8	1596.1	1589.3	1585.4	1587.7	1574.0	1587.7	1601.5
5°	1550.4	1535.1	1522.9	1513.0	1508.5	1499.3	1494.0	1494.0	1485.6	1499.3	1516.1
7.5°	1490.9	1478.7	1472.6	1466.5	1459.7	1451.3	1442.1	1439.1	1433.8	1448.2	1462.7
10°	1451.3	1452.8	1456.6	1465.0	1463.5	1458.2	1444.4	1436.8	1436.8	1453.6	1475.7
12.5°	1469.6	1485.6	1494.7	1510.0	1513.0	1508.5	1494.7	1488.6	1503.9	1529.0	1565.6
15°	1540.5	1551.1	1558.8	1571.0	1570.2	1566.4	1555.7	1560.3	1610.6	1659.4	1692.2
17.5°	1617.5	1605.3	1603.7	1611.4	1613.6	1609.1	1603.0	1623.6	1706.6	1752.4	1769.1
20°	1673.1	1631.2	1622.0	1625.1	1631.2	1628.9	1628.9	1662.4	1748.6	1769.9	1748.6
22.5°	1689.9	1630.4	1616.7	1617.5	1625.8	1626.6	1630.4	1665.5	1715.8	1716.5	1683.8
25°	1663.2	1606.0	1596.1	1597.6	1607.5	1606.8	1608.3	1628.1	1650.2	1641.1	1616.7
27.5°	1612.9	1563.3	1560.3	1568.7	1581.6	1574.8	1570.2	1575.5	1586.2	1574.8	1553.4
30°	1555.7	1513.8	1515.3	1531.3	1545.0	1533.6	1522.2	1525.2	1526.0	1513.8	1489.4
32.5°	1495.5	1464.2	1469.6	1486.4	1502.4	1490.2	1478.0	1476.4	1462.0	1447.5	1423.9
35°	1435.3	1423.1	1429.9	1443.7	1457.4	1447.5	1439.9	1435.3	1404.0	1382.7	1362.9
37.5°	1380.4	1389.5	1401.7	1410.1	1414.7	1413.9	1409.4	1398.7	1357.5	1332.4	1306.5
40°	1331.6	1359.8	1372.8	1376.6	1383.5	1381.9	1381.2	1365.9	1311.8	1285.1	1255.4
42.5°	1287.4	1327.0	1349.2	1353.0	1356.8	1357.5	1355.2	1333.1	1271.4	1240.2	1211.9
45°	1244.7	1296.6	1324.8	1320.9	1326.3	1326.3	1328.6	1299.6	1231.8	1199.8	1170.0
47.5°	1207.4	1268.4	1294.3	1289.7	1292.7	1295.0	1297.3	1263.8	1188.3	1157.8	1127.3
50°	1173.1	1237.9	1260.0	1261.5	1261.5	1266.8	1266.1	1233.3	1151.7	1119.0	1088.5
52.5°	1136.5	1206.6	1230.2	1240.2	1243.2	1245.5	1234.8	1196.7	1114.4	1074.7	1046.5
55°	1093.8	1174.6	1195.9	1208.9	1215.0	1213.5	1199.0	1160.1	1076.3	1036.6	1004.6
57.5°	1029.0	1106.0	1136.5	1142.6	1152.5	1146.4	1129.6	1096.9	1015.3	975.7	942.9
60°	958.1	1013.8	1038.2	1043.5	1035.9	1038.2	1035.9	1004.6	933.7	902.5	868.9
62.5°	865.1	914.7	940.6	947.5	934.5	942.9	939.8	901.0	830.1	797.3	767.6
65°	795.0	849.1	879.6	883.4	879.6	883.4	872.8	825.5	758.4	724.9	694.4
67.5°	740.1	795.8	827.8	838.5	834.6	833.9	817.1	762.2	692.9	656.3	617.4
70°	645.6	694.4	735.6	761.5	761.5	747.0	715.0	663.9	608.3	577.0	546.5
72.5°	571.7	633.4	673.8	700.5	705.8	697.4	652.5	598.4	534.3	503.1	471.1
75°	471.1	531.3	574.7	609.8	616.6	607.5	555.7	502.3	442.9	412.4	380.4
77.5°	314.8	350.6	385.7	417.7	410.8	416.9	381.9	341.5	304.9	282.0	267.5
80°	177.6	201.2	211.9	229.4	229.4	229.4	206.6	187.5	166.9	154.0	139.5
82.5°	100.6	115.9	120.4	134.9	138.7	139.5	124.2	112.0	99.1	92.2	82.3
85°	46.5	54.9	55.6	64.0	67.1	73.2	66.3	57.9	50.3	47.3	41.2
87.5°	1.5	4.6	6.1	11.4	15.2	17.5	19.1	19.1	16.0	14.5	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632709

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9	1708.9
2.5°	1618.2	1636.5	1657.9	1673.1	1700.5	1723.4	1747.0	1773.0	1792.0	1787.4
5°	1536.7	1567.2	1606.0	1641.8	1692.9	1744.8	1801.9	1860.6	1894.9	1893.4
7.5°	1490.9	1534.4	1581.6	1629.7	1689.9	1764.6	1852.2	1943.7	1990.2	1992.5
10°	1515.3	1561.8	1593.8	1634.2	1697.5	1791.2	1896.4	2006.2	2059.6	2070.2
12.5°	1592.3	1588.5	1586.2	1615.2	1691.4	1810.3	1939.1	2070.2	2130.4	2143.4
15°	1665.5	1587.0	1539.7	1559.5	1664.0	1822.5	1981.0	2140.3	2208.2	2221.9
17.5°	1679.2	1560.3	1472.6	1486.4	1620.5	1826.3	2021.4	2208.9	2282.1	2295.1
20°	1641.1	1526.0	1423.9	1404.8	1565.6	1816.4	2046.6	2266.1	2346.2	2359.9
22.5°	1593.1	1495.5	1387.3	1337.7	1498.5	1806.5	2074.8	2326.3	2418.6	2430.8
25°	1542.8	1456.6	1353.0	1277.5	1422.3	1800.4	2122.1	2405.6	2516.9	2531.4
27.5°	1489.4	1409.4	1323.2	1248.5	1352.2	1808.0	2189.1	2533.7	2660.2	2680.8
30°	1432.2	1362.1	1304.2	1238.6	1304.2	1814.9	2263.1	2664.8	2813.4	2842.4
32.5°	1372.8	1318.7	1284.4	1243.2	1274.5	1798.9	2327.9	2811.9	2996.3	3021.5
35°	1313.3	1274.5	1259.2	1251.6	1234.8	1740.2	2380.5	2960.5	3205.2	3227.3
37.5°	1257.7	1228.7	1224.1	1232.5	1173.8	1644.1	2441.4	3149.5	3410.2	3443.8
40°	1205.9	1179.2	1178.4	1176.9	1106.8	1513.0	2523.8	3341.6	3612.2	3627.5
42.5°	1157.8	1124.3	1130.4	1112.1	1051.9	1371.3	2601.5	3505.5	3800.5	3811.2
45°	1115.1	1070.9	1077.8	1054.9	1026.0	1222.6	2670.1	3699.1	4039.1	4045.9
47.5°	1074.0	1026.7	1007.7	1006.1	1021.4	1085.4	2737.2	4071.8	4412.6	4424.8
50°	1035.9	984.8	930.7	964.2	993.2	982.5	2821.0	4471.3	4798.3	4795.2
52.5°	999.3	932.2	855.2	920.0	920.0	906.3	2797.4	4713.6	5116.9	5169.5
55°	957.4	847.6	776.7	846.1	812.5	837.7	2378.9	4792.9	5317.3	5392.0
57.5°	874.3	743.2	681.4	718.8	668.5	776.7	1708.9	4399.6	4976.6	5109.2
60°	794.2	666.2	625.8	618.9	553.4	633.4	1107.5	3444.5	4096.2	4163.3
62.5°	700.5	599.9	565.6	513.0	445.1	461.2	670.8	2266.9	2752.4	2767.7
65°	629.6	543.5	477.9	415.4	364.3	334.6	396.4	1093.0	1375.8	1357.5
67.5°	540.4	465.7	403.2	358.2	316.3	279.0	263.7	324.7	367.4	355.2
70°	481.0	409.3	349.1	306.4	267.5	230.2	203.5	191.3	187.5	184.5
72.5°	414.7	352.2	289.6	248.5	211.9	177.6	153.2	138.7	134.9	131.9
75°	330.8	272.1	214.9	176.1	144.1	119.7	103.7	91.5	89.2	86.1
77.5°	218.8	174.6	128.1	104.4	85.4	72.4	61.7	54.1	52.6	51.1
80°	120.4	100.6	78.5	63.3	51.1	44.2	40.4	35.8	35.1	34.3
82.5°	71.6	60.2	45.0	35.8	29.7	26.7	24.4	22.1	21.3	20.6
85°	35.8	28.2	19.8	16.8	15.2	13.7	13.7	11.4	10.7	10.7
87.5°	9.1	7.6	4.6	3.8	3.8	3.8	3.0	2.3	2.3	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)