

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: P631330

Luminaire Tested: GWS-SA1F-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6557.8 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

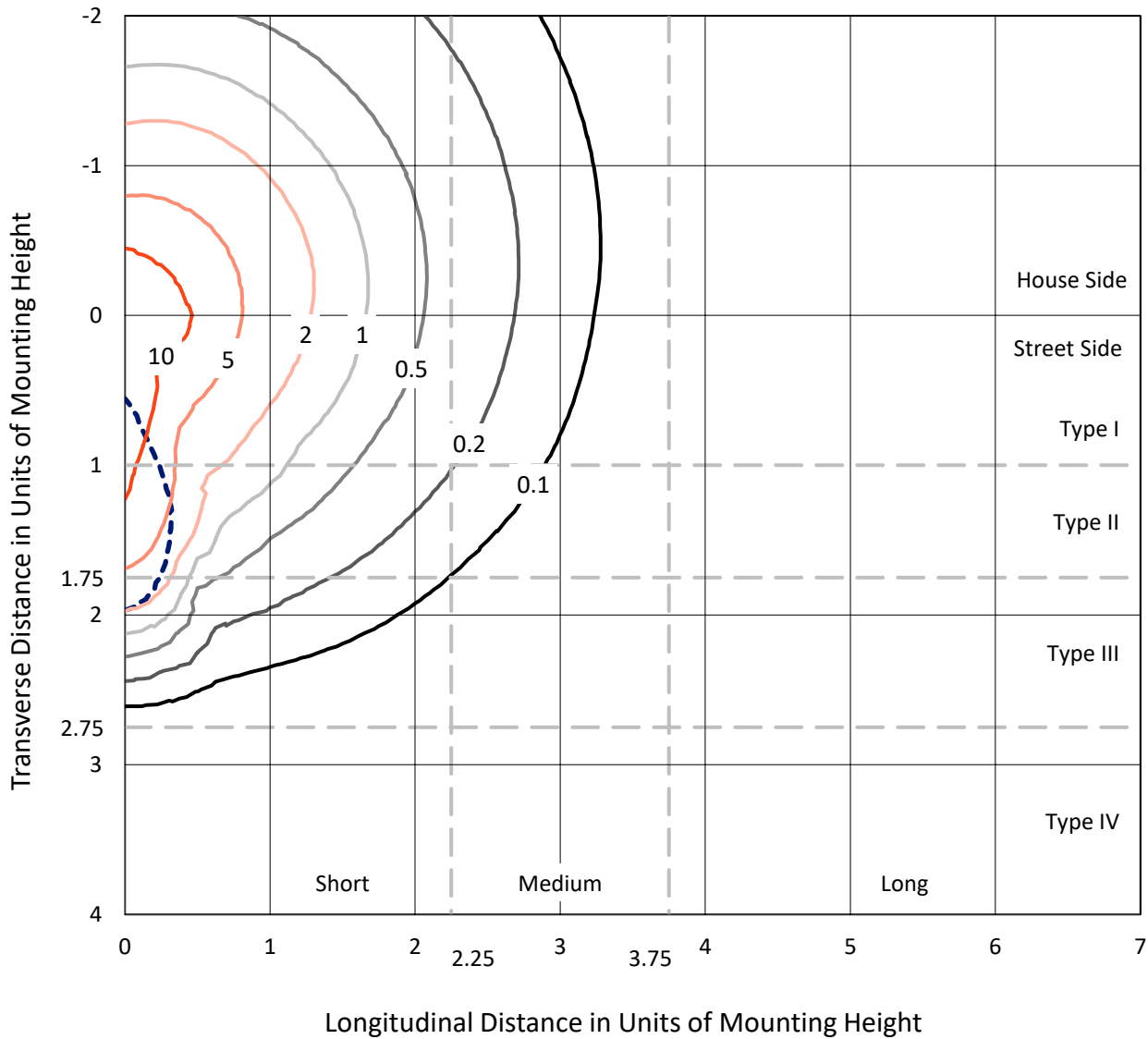
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

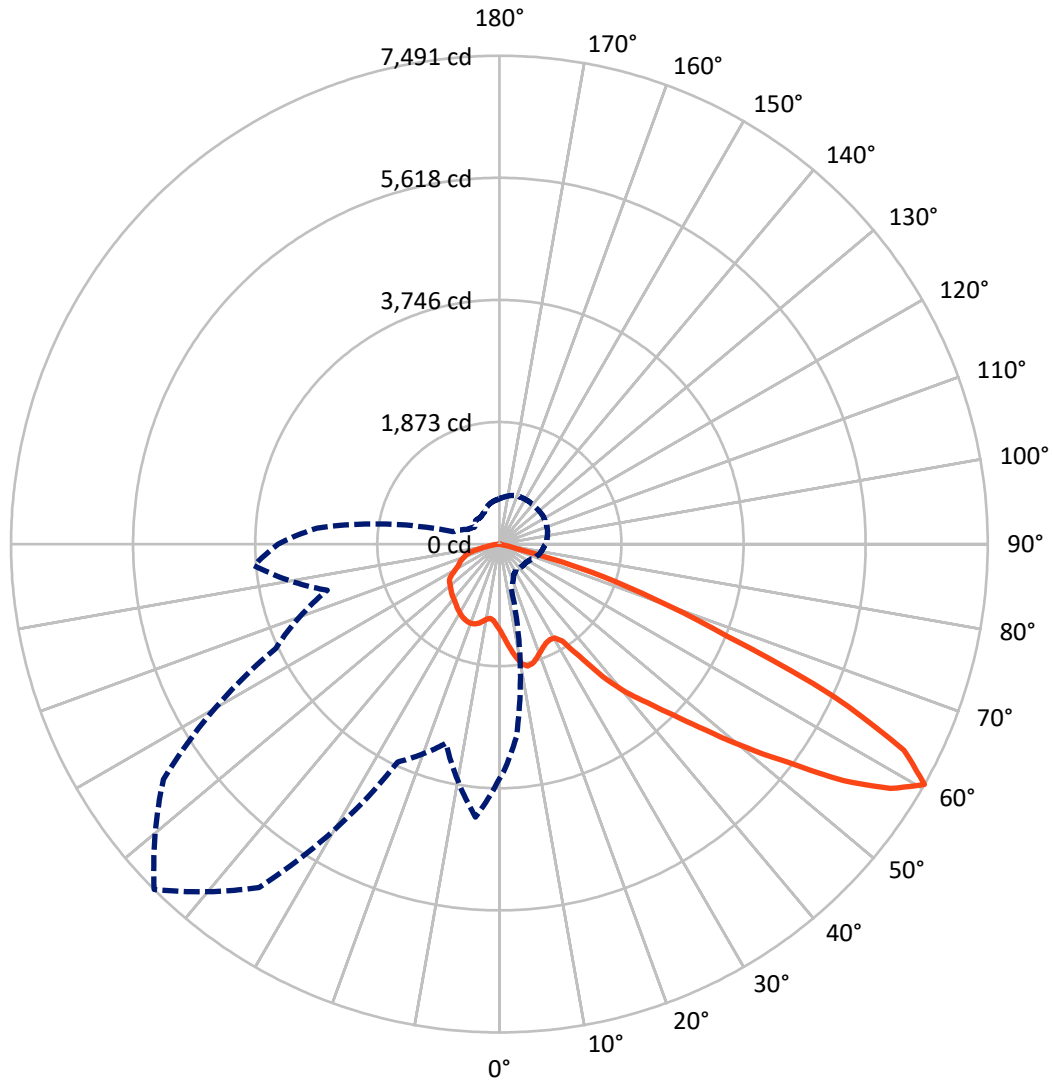
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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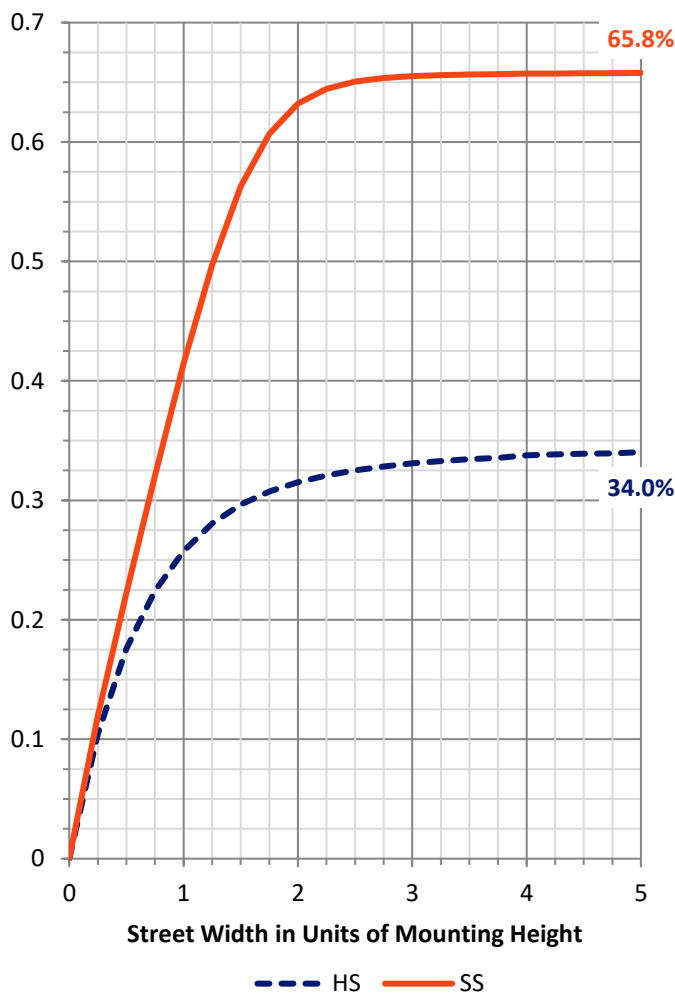
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2243.4	0.0	2243.4
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	4314.4	0.0	4314.4
	% Fixture	65.8	0.0	65.8
Total	Lumens	6557.8	0.0	6557.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	2.0
10°-20°	414.5	6.3
20°-30°	675.0	10.3
30°-40°	948.3	14.5
40°-50°	1297.6	19.8
50°-60°	1664.7	25.4
60°-70°	1121.0	17.1
70°-80°	280.2	4.3
80°-90°	27.3	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°	6557.8	100.0
0°-180°	6557.8	100.0

Coefficient of Utilization



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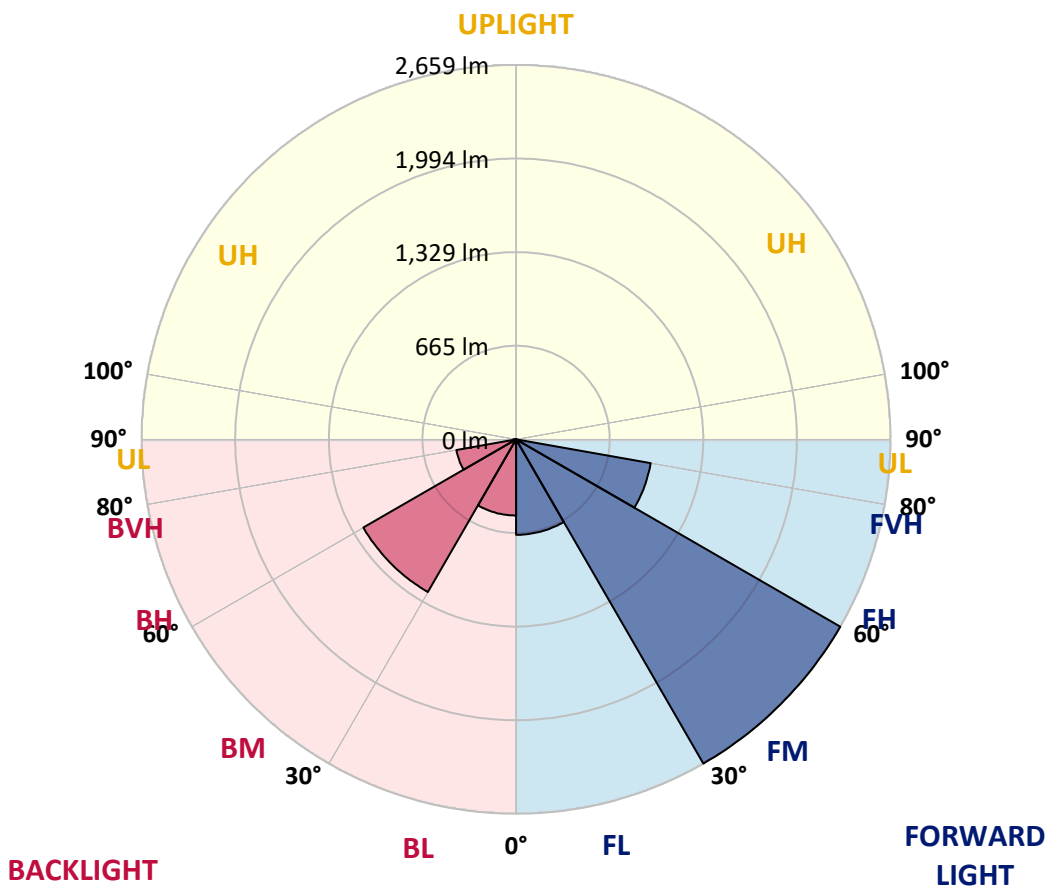
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.9	10.3			
FM (30°-60°)	2658.6	40.5			
FH (60°-80°)	970.8	14.8			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	540.8	8.2	B2/1000		
BM (30°-60°)	1252.0	19.1	B2/2500		
BH (60°-80°)	430.4	6.6	B1/500		G1/500
BVH (80°-90°)	20.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6
2.5°	1399.3	1396.3	1393.3	1369.7	1363.7	1346.8	1334.7	1319.6	1297.9	1285.8	1275.5
5°	1486.9	1482.1	1465.8	1417.5	1386.1	1351.6	1323.2	1291.8	1258.6	1236.9	1220.0
7.5°	1569.7	1568.4	1540.7	1460.9	1410.2	1360.7	1322.0	1276.1	1228.4	1195.8	1174.1
10°	1646.4	1637.3	1604.1	1500.2	1433.8	1377.0	1335.3	1284.6	1229.0	1184.9	1155.9
12.5°	1714.0	1702.5	1656.6	1536.4	1454.3	1384.2	1338.9	1297.3	1260.4	1223.6	1190.4
15°	1769.6	1755.7	1709.2	1570.3	1472.4	1380.0	1316.6	1284.0	1296.7	1313.0	1276.1
17.5°	1821.5	1807.0	1750.2	1595.0	1477.9	1354.0	1261.6	1247.7	1311.8	1386.1	1369.1
20°	1865.0	1848.7	1782.8	1607.1	1468.2	1304.5	1190.4	1214.5	1299.1	1387.9	1415.0
22.5°	1912.1	1898.8	1819.7	1624.6	1456.1	1236.3	1130.6	1189.8	1277.3	1355.3	1396.3
25°	1987.6	1971.3	1877.1	1655.4	1450.1	1172.3	1087.7	1165.6	1247.1	1317.8	1349.8
27.5°	2096.9	2066.7	1955.6	1709.2	1456.7	1111.9	1060.5	1136.0	1212.1	1272.5	1298.5
30°	2215.9	2179.6	2042.5	1764.7	1466.4	1075.0	1046.0	1102.2	1158.4	1218.8	1247.1
32.5°	2356.6	2324.6	2135.5	1806.4	1445.8	1058.1	1035.2	1065.4	1110.1	1158.4	1181.9
35°	2524.5	2467.1	2237.0	1840.2	1379.4	1033.3	1025.5	1024.9	1048.4	1095.6	1122.1
37.5°	2705.1	2643.5	2362.0	1876.5	1276.1	994.1	1002.5	977.2	998.9	1036.4	1066.6
40°	2853.0	2788.4	2488.3	1926.0	1146.9	932.5	951.8	924.6	937.9	976.6	1010.4
42.5°	2998.0	2929.1	2606.0	1982.1	1021.9	872.1	881.8	871.5	875.7	916.2	963.3
45°	3188.2	3110.9	2751.0	2022.0	909.5	824.4	815.3	797.8	820.2	872.7	922.8
47.5°	3505.9	3413.5	2988.3	2048.0	828.0	797.2	755.5	745.3	773.0	831.6	883.6
50°	3877.3	3797.6	3367.6	2046.8	767.0	774.3	697.6	688.5	734.4	793.6	848.5
52.5°	4181.7	4100.8	3691.9	1986.4	716.9	725.3	663.7	638.4	701.2	756.1	811.1
55°	4427.5	4336.3	3841.1	1733.9	653.5	647.4	626.9	580.4	659.5	718.7	770.0
57.5°	4295.3	4186.5	3660.5	1318.4	588.2	550.2	563.5	529.1	602.7	677.0	726.5
60°	3601.3	3503.5	2973.8	701.8	517.6	459.6	487.4	492.8	540.5	626.9	677.6
62.5°	2473.8	2402.5	2015.4	425.8	408.3	369.0	412.5	451.8	487.4	560.5	604.5
65°	1210.3	1189.2	1008.0	273.0	285.7	298.3	341.8	389.5	442.1	506.1	552.6
67.5°	333.4	335.8	305.6	213.2	225.3	260.3	294.7	332.8	385.3	444.5	491.6
70°	146.8	149.2	154.0	164.3	187.2	219.2	254.9	294.1	342.4	392.0	437.3
72.5°	102.1	104.5	111.7	125.0	145.6	175.7	209.6	247.0	297.1	338.8	376.3
75°	62.8	64.6	71.3	82.7	96.6	119.6	152.8	187.2	231.3	269.4	302.6
77.5°	33.2	32.0	36.2	44.1	56.2	68.2	90.6	112.3	143.7	174.5	202.3
80°	18.1	17.5	19.9	24.2	27.8	37.4	52.5	67.0	85.2	102.7	117.8
82.5°	7.9	7.2	7.9	10.3	12.7	18.1	26.6	36.8	47.1	59.2	68.8
85°	0.0	0.0	0.0	0.6	3.0	4.8	9.1	13.3	19.3	26.6	32.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.4
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°	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6
2.5°	1269.5	1254.4	1253.2	1241.1	1242.3	1242.9	1230.8	1226.0	1230.2	1235.1	1232.7
5°	1213.9	1198.2	1191.6	1180.1	1178.9	1173.5	1168.6	1162.6	1166.8	1171.0	1173.5
7.5°	1165.6	1155.3	1151.1	1148.1	1149.3	1146.9	1137.2	1131.8	1131.2	1133.0	1135.4
10°	1149.9	1141.5	1146.9	1155.3	1161.4	1165.6	1155.3	1146.3	1137.8	1134.2	1134.2
12.5°	1183.7	1172.9	1183.7	1192.8	1204.9	1207.9	1196.4	1186.8	1183.7	1187.4	1194.6
15°	1258.6	1233.3	1232.7	1238.1	1247.7	1252.6	1241.7	1236.9	1236.9	1259.8	1277.9
17.5°	1333.5	1291.8	1274.3	1271.3	1277.3	1279.2	1270.1	1265.9	1276.7	1321.4	1355.3
20°	1386.1	1335.3	1297.3	1290.0	1291.8	1292.4	1285.2	1282.2	1297.9	1352.2	1380.6
22.5°	1380.6	1343.2	1296.7	1287.6	1290.6	1289.4	1282.8	1281.6	1294.3	1341.4	1354.6
25°	1343.2	1314.2	1274.9	1268.9	1273.7	1273.1	1266.5	1263.5	1268.9	1300.3	1301.5
27.5°	1300.3	1274.9	1241.1	1239.3	1247.1	1251.4	1239.9	1230.8	1229.0	1250.2	1245.3
30°	1249.0	1230.2	1203.1	1204.3	1218.8	1221.2	1207.3	1194.0	1190.4	1201.8	1195.2
32.5°	1188.0	1181.9	1167.4	1170.4	1184.3	1189.2	1174.7	1160.8	1156.6	1160.2	1146.3
35°	1136.0	1133.6	1134.8	1140.2	1152.3	1155.9	1143.9	1133.0	1127.0	1114.3	1096.2
37.5°	1082.3	1088.9	1106.4	1116.7	1123.3	1122.1	1115.5	1107.6	1098.0	1074.4	1052.1
40°	1032.1	1049.1	1080.5	1091.9	1094.3	1095.0	1090.1	1083.5	1071.4	1040.0	1014.6
42.5°	993.5	1012.2	1053.9	1071.4	1072.6	1073.8	1069.0	1063.5	1046.6	1005.0	980.2
45°	953.0	977.8	1026.7	1047.8	1046.6	1046.0	1041.8	1039.4	1019.5	971.1	944.0
47.5°	918.6	947.6	1000.1	1018.3	1017.6	1017.0	1014.0	1014.0	994.1	941.5	910.7
50°	884.8	918.0	973.0	988.1	989.3	988.1	986.8	988.7	965.1	908.9	878.7
52.5°	847.9	885.4	942.8	956.6	963.9	966.9	966.9	962.7	934.9	876.3	843.1
55°	807.5	843.1	909.5	928.3	934.3	939.7	939.7	931.3	905.3	846.1	810.5
57.5°	757.3	788.8	841.3	860.0	874.5	878.1	878.1	864.2	843.1	786.3	757.3
60°	703.0	730.2	765.8	785.7	796.6	789.4	794.8	791.2	774.3	721.7	697.6
62.5°	630.5	658.3	697.6	718.1	722.9	715.7	722.9	722.3	699.4	652.3	623.3
65°	578.6	605.8	644.4	671.0	678.8	677.0	681.9	674.6	646.2	601.5	573.7
67.5°	517.0	546.0	590.7	620.3	636.6	638.4	645.0	629.9	600.9	552.0	517.0
70°	458.4	483.2	517.6	545.4	568.3	579.8	581.0	559.3	523.0	482.6	457.2
72.5°	396.8	422.2	463.8	494.0	523.0	536.3	536.3	509.7	470.5	425.8	398.6
75°	321.9	345.5	383.5	416.1	449.3	466.2	465.6	442.7	399.2	356.9	328.5
77.5°	218.0	235.5	259.7	284.5	289.3	302.6	309.2	280.2	256.1	233.1	207.8
80°	126.8	137.7	151.0	164.9	167.9	172.1	161.3	150.4	137.7	122.6	111.1
82.5°	74.3	81.5	88.2	99.0	100.9	102.1	92.4	87.6	77.3	68.2	61.0
85°	36.2	38.7	44.7	50.1	47.7	46.5	42.3	37.4	33.2	29.6	26.0
87.5°	7.2	7.2	10.9	10.3	8.5	7.2	4.2	5.4	1.2	1.2	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6
2.5°	1240.5	1250.8	1263.5	1280.4	1299.7	1320.2	1340.2	1355.3	1370.4	1392.7	1389.1
5°	1177.1	1194.6	1214.5	1240.5	1271.9	1307.5	1347.4	1387.3	1430.1	1466.4	1482.1
7.5°	1140.2	1159.6	1183.1	1216.9	1257.4	1300.9	1357.1	1421.7	1491.1	1538.9	1568.4
10°	1140.2	1165.0	1195.8	1228.4	1264.1	1308.7	1378.2	1459.1	1548.5	1611.3	1645.7
12.5°	1206.1	1230.8	1237.5	1236.3	1256.2	1305.7	1395.1	1498.4	1605.3	1671.7	1714.0
15°	1308.7	1317.2	1267.1	1221.2	1224.2	1284.0	1403.0	1529.8	1654.2	1733.9	1779.8
17.5°	1377.6	1355.3	1265.9	1185.5	1168.6	1247.1	1403.0	1560.0	1706.1	1796.1	1839.0
20°	1383.0	1327.5	1235.1	1151.1	1107.6	1198.2	1393.3	1582.9	1756.3	1855.9	1901.8
22.5°	1335.3	1280.4	1202.5	1121.5	1057.5	1139.0	1377.6	1600.5	1799.2	1912.1	1968.9
25°	1281.0	1235.1	1169.2	1091.3	1023.1	1079.2	1363.1	1630.0	1858.9	1988.2	2045.6
27.5°	1227.8	1189.2	1129.4	1066.0	1003.8	1027.3	1354.0	1673.5	1930.2	2096.3	2145.8
30°	1175.9	1140.9	1086.5	1041.8	993.5	993.5	1346.2	1723.7	2024.4	2217.7	2267.2
32.5°	1123.3	1090.1	1046.0	1018.3	987.4	980.2	1324.5	1770.8	2121.7	2350.6	2401.3
35°	1074.4	1041.2	1007.4	995.9	984.4	969.9	1270.7	1807.6	2216.5	2505.8	2549.2
37.5°	1028.5	996.5	971.1	968.1	969.3	942.2	1186.1	1838.4	2334.8	2664.6	2687.6
40°	988.7	953.0	933.1	932.5	938.5	897.5	1079.2	1882.5	2470.1	2799.3	2789.6
42.5°	953.0	915.6	891.4	896.9	893.2	852.8	974.8	1923.0	2587.9	2925.5	2906.2
45°	918.0	881.8	847.9	855.8	851.6	825.0	886.0	1952.6	2718.4	3077.1	3079.5
47.5°	884.2	848.5	814.7	805.1	804.5	816.5	817.7	1962.2	2930.9	3321.1	3266.1
50°	852.8	817.1	782.1	749.5	762.2	799.6	767.0	1955.0	3249.2	3590.5	3437.0
52.5°	820.2	786.3	747.7	689.1	722.3	759.2	721.7	1929.0	3443.7	3828.4	3736.6
55°	782.7	750.7	698.2	626.9	667.4	675.2	675.2	1677.8	3526.4	4063.9	4120.7
57.5°	732.6	690.3	607.0	549.6	585.8	555.6	625.7	1174.1	3389.9	3989.7	4210.1
60°	675.8	630.5	542.3	501.3	512.1	459.0	533.3	736.2	2809.6	3394.8	3776.5
62.5°	600.9	559.3	486.2	454.2	431.8	374.4	429.4	465.6	1926.0	2520.9	2781.2
65°	550.8	504.9	439.7	397.4	351.5	301.4	285.1	305.6	1035.8	1410.8	1586.6
67.5°	491.6	446.3	384.7	331.6	294.7	258.5	230.1	222.9	355.1	469.9	508.5
70°	435.4	392.0	340.6	291.1	254.3	218.6	190.8	170.9	164.3	163.1	160.6
72.5°	378.1	337.6	294.7	248.8	208.4	175.7	151.0	128.0	118.4	115.4	112.3
75°	309.8	277.8	234.9	185.4	152.8	122.6	103.3	88.2	79.7	76.7	73.1
77.5°	199.3	184.8	147.4	119.6	92.4	73.1	62.8	53.1	47.7	46.5	43.5
80°	106.3	99.0	81.5	68.8	55.0	44.7	39.3	33.8	30.8	29.6	28.4
82.5°	59.2	53.8	45.3	39.9	32.0	27.2	24.2	21.7	19.9	19.3	18.7
85°	26.6	22.9	18.1	16.9	15.1	13.9	13.3	12.1	11.5	10.9	10.3
87.5°	1.2	2.4	3.0	2.4	2.4	3.6	4.2	4.2	3.6	3.6	3.0
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: P631330

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6	1322.6
2.5°	1411.4	1429.5	1431.3	1437.4	1429.5	1427.7	1415.0	1407.8	1401.2	1399.3
5°	1521.3	1557.6	1572.1	1582.3	1572.7	1567.8	1540.1	1511.1	1494.8	1486.9
7.5°	1634.3	1688.6	1717.0	1729.7	1730.9	1709.2	1661.5	1607.1	1579.9	1569.7
10°	1735.1	1802.2	1839.6	1863.8	1855.3	1828.7	1763.5	1689.8	1655.4	1646.4
12.5°	1810.0	1874.0	1903.0	1918.7	1918.1	1903.6	1842.0	1762.3	1723.1	1714.0
15°	1858.3	1896.4	1898.2	1901.8	1912.1	1931.4	1899.4	1825.7	1782.2	1769.6
17.5°	1896.4	1881.3	1852.9	1843.2	1866.2	1919.9	1939.3	1879.5	1832.4	1821.5
20°	1920.5	1844.4	1794.3	1775.6	1802.2	1889.7	1963.4	1927.8	1878.9	1865.0
22.5°	1939.3	1810.0	1729.1	1716.4	1744.2	1857.1	1988.2	1985.2	1931.4	1912.1
25°	1968.9	1787.1	1683.2	1674.1	1700.1	1841.4	2021.4	2063.1	2015.4	1987.6
27.5°	2015.4	1784.7	1659.6	1656.6	1692.3	1855.3	2069.1	2177.2	2117.4	2096.9
30°	2080.0	1807.6	1665.1	1671.1	1714.6	1905.4	2143.4	2307.7	2247.9	2215.9
32.5°	2173.0	1869.2	1747.8	1773.8	1805.8	1985.8	2252.1	2449.0	2403.7	2356.6
35°	2295.6	2038.3	1992.4	2102.9	2072.7	2161.5	2383.2	2620.5	2565.6	2524.5
37.5°	2459.3	2385.0	2427.3	2579.4	2506.4	2493.7	2543.2	2776.3	2746.1	2705.1
40°	2688.8	2703.9	2781.8	2981.7	2876.0	2794.5	2739.5	2893.5	2903.8	2853.0
42.5°	2841.0	2910.4	3098.2	3325.3	3179.8	2984.7	2903.8	3043.3	3043.9	2998.0
45°	2897.7	3079.5	3472.1	3733.6	3490.2	3093.4	2994.4	3246.8	3240.8	3188.2
47.5°	2877.2	3222.0	3860.4	4260.2	3888.8	3170.7	2981.7	3536.7	3585.6	3505.9
50°	2834.3	3365.2	4314.0	4905.2	4378.0	3252.8	2962.3	3858.0	3938.9	3877.3
52.5°	2877.8	3524.6	4850.3	5572.0	4991.6	3383.9	3092.8	4270.5	4256.0	4181.7
55°	3015.5	3713.1	5501.9	6409.7	5665.6	3605.5	3428.0	4663.7	4516.3	4427.5
57.5°	3008.9	3847.7	6073.3	7072.2	6252.0	3787.3	3544.6	4705.3	4407.6	4295.3
60°	2731.0	3786.1	6290.7	7491.3	6429.0	3687.1	3161.0	4202.9	3719.1	3601.3
62.5°	2038.3	3359.7	5869.1	6966.5	5928.3	3184.6	2377.1	3016.7	2672.5	2473.8
65°	1303.9	2628.4	4934.2	5643.9	4886.5	2435.7	1415.6	1617.4	1267.1	1210.3
67.5°	555.0	1855.3	3835.7	3772.2	3655.7	1578.1	546.6	455.4	339.4	333.4
70°	183.6	1262.2	2364.4	2516.0	2183.3	1087.1	180.6	152.8	152.2	146.8
72.5°	120.2	677.6	1331.1	1482.1	1404.8	625.7	109.3	102.1	104.5	102.1
75°	71.9	147.4	224.1	291.1	224.1	105.1	65.8	64.6	65.8	62.8
77.5°	42.3	41.1	39.9	39.9	39.3	36.2	33.2	32.0	32.6	33.2
80°	27.2	26.0	24.8	24.2	21.1	19.9	18.7	17.5	17.5	18.1
82.5°	17.5	16.3	15.1	13.3	10.9	9.1	8.5	7.2	7.2	7.9
85°	9.1	7.2	5.4	4.2	2.4	1.2	0.0	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	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

(END OF REPORT)