

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: P451394

Luminaire Tested: **GALN-SA2B-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8983 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

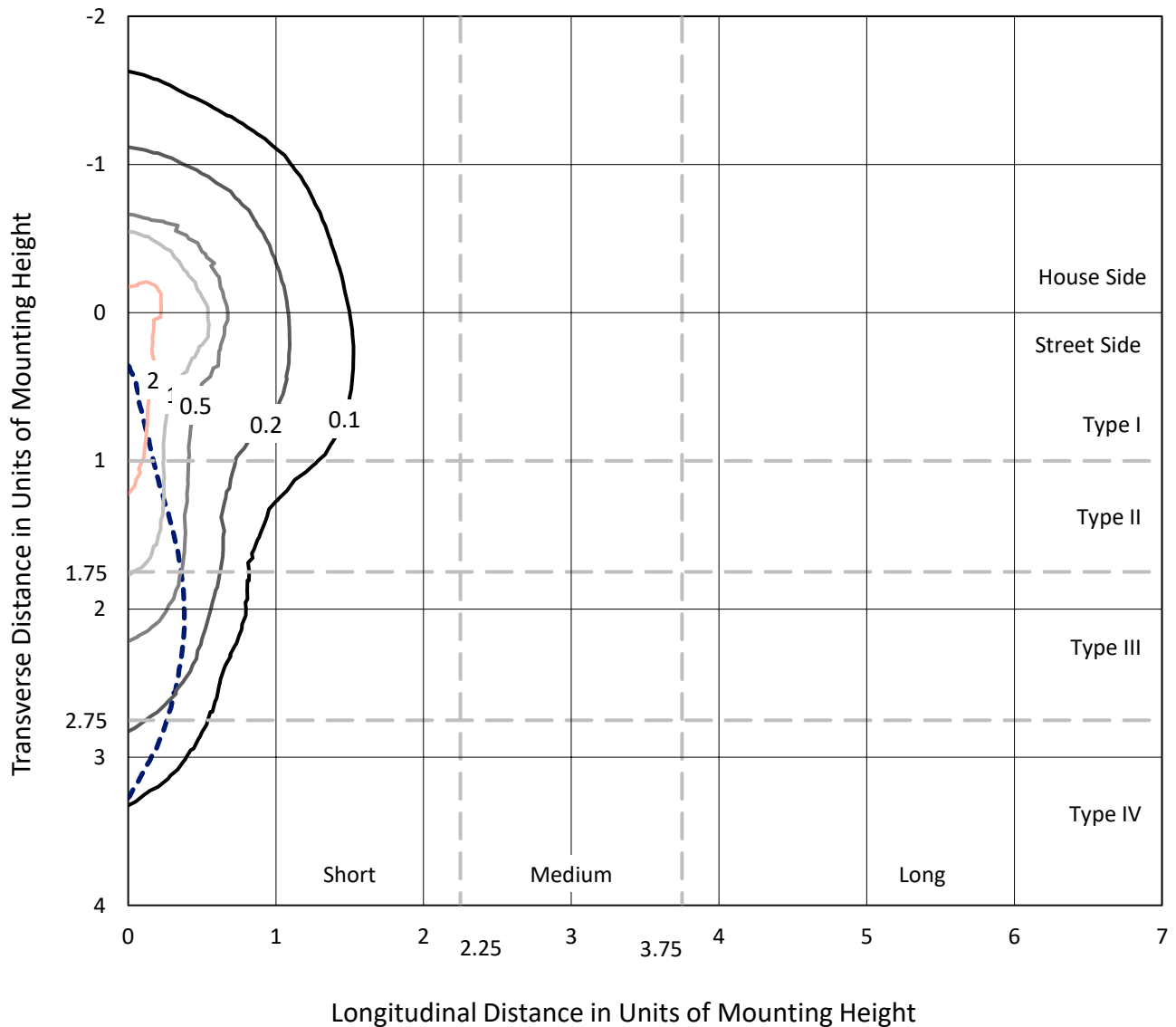
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

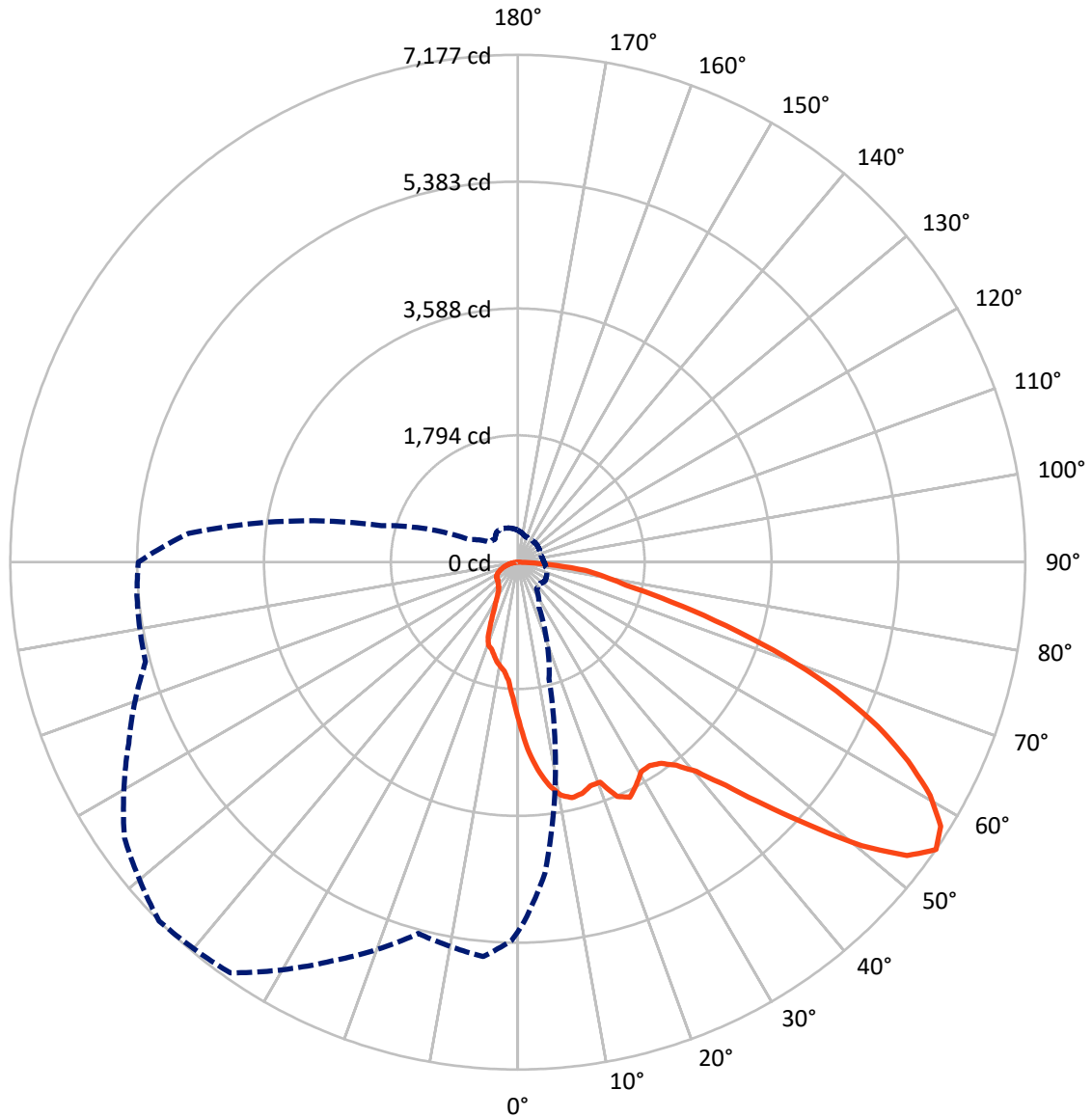
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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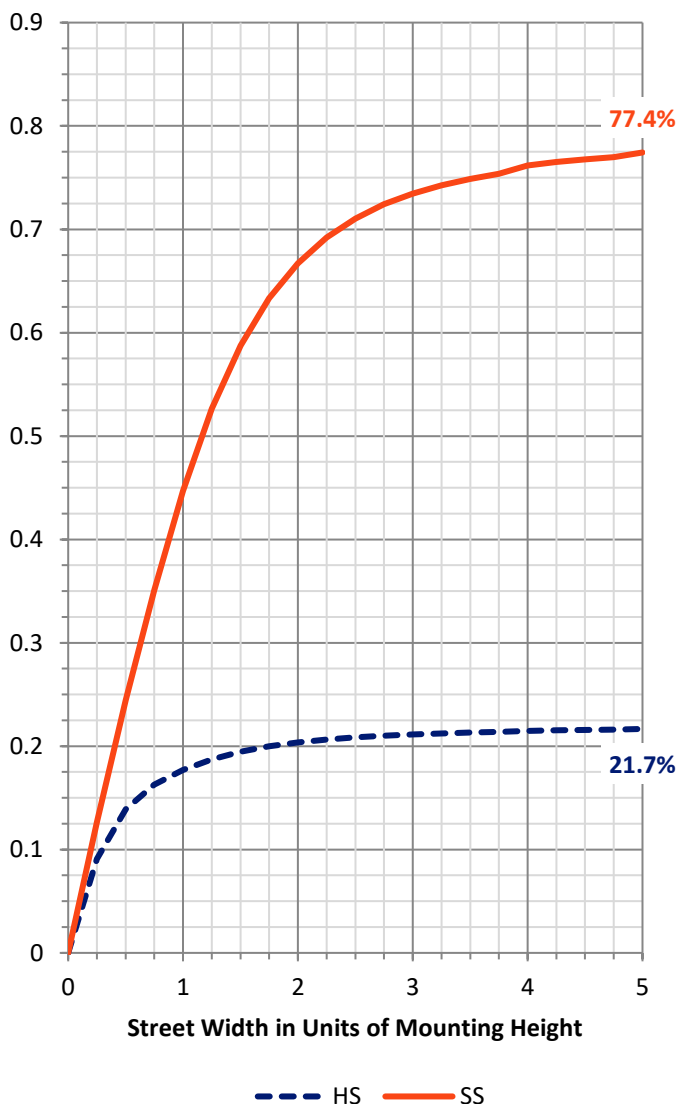
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1965.0	0.0	1965.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7018.0	0.0	7018.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	8983.0	0.0	8983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	2.1
10°-20°	506.9	5.6
20°-30°	875.7	9.7
30°-40°	1017.7	11.3
40°-50°	1419.9	15.8
50°-60°	1926.6	21.4
60°-70°	1833.0	20.4
70°-80°	990.2	11.0
80°-90°	221.9	2.5
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°	8983.0	100.0
0°-180°	8983.0	100.0

Coefficient of Utilization



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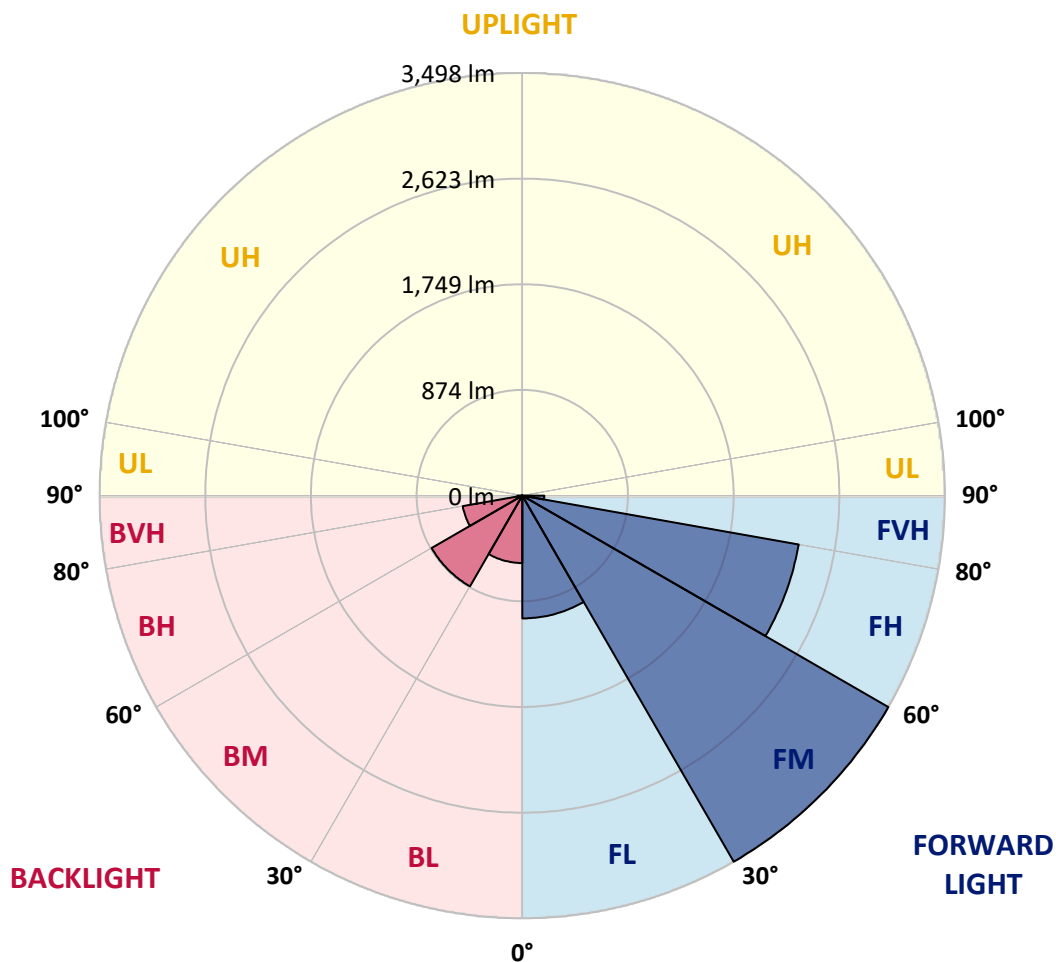
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1016.0	11.3			
FM	(30°-60°)	3497.8	38.9			
FH	(60°-80°)	2322.9	25.9			G2/5000
FVH	(80°-90°)	181.4	2.0			G2/225
BL	(0°-30°)	557.7	6.2	B2/1000		
BM	(30°-60°)	866.4	9.6	B1/1000		
BH	(60°-80°)	500.3	5.6	B2/1000		G2/1000
BVH	(80°-90°)	40.6	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4
2.5°	2504.5	2495.0	2468.3	2398.4	2327.9	2256.2	2201.0	2132.3	2060.6	2022.1	1972.9
5°	2538.8	2528.2	2465.4	2307.7	2164.9	2015.0	1895.2	1790.3	1747.7	1684.9	1634.5
7.5°	2458.2	2453.5	2359.3	2132.9	1937.3	1741.2	1605.4	1521.3	1444.8	1416.4	1422.3
10°	2384.8	2365.8	2247.9	1952.1	1724.0	1564.6	1467.4	1385.0	1331.1	1316.8	1319.8
12.5°	2323.7	2298.2	2159.0	1830.6	1630.9	1503.5	1379.7	1293.7	1244.5	1258.2	1304.4
15°	2311.3	2276.9	2121.6	1789.2	1580.0	1415.8	1280.1	1181.1	1144.4	1174.0	1248.1
17.5°	2391.9	2348.6	2185.6	1802.8	1531.4	1326.3	1159.8	1046.6	1015.8	1063.2	1159.8
20°	2650.9	2586.9	2385.4	1881.6	1526.6	1281.9	1089.9	976.1	989.1	1079.2	1179.9
22.5°	3129.7	3033.7	2735.0	1996.6	1551.5	1270.6	1075.6	1016.4	1088.1	1164.5	1230.9
25°	3224.5	3149.3	2797.8	2022.7	1546.2	1262.9	1115.9	1145.6	1225.6	1263.5	1240.4
27.5°	3277.9	3191.9	2793.7	1893.5	1382.6	1145.6	1066.7	1115.9	1136.1	1099.3	1036.5
30°	3402.3	3312.8	2864.2	1757.8	1138.5	849.8	744.9	724.8	738.4	745.5	723.0
32.5°	3573.6	3485.3	2997.0	1668.9	984.4	702.9	599.7	571.3	564.8	557.1	548.2
35°	3795.2	3659.5	3127.3	1612.0	921.0	650.1	555.3	533.4	524.5	513.8	504.3
37.5°	4020.4	3878.2	3292.1	1552.1	878.9	613.4	525.7	515.6	500.2	488.9	475.3
40°	4259.9	4100.4	3442.0	1500.0	838.0	589.7	504.3	503.1	483.0	470.0	454.0
42.5°	4467.3	4303.1	3576.0	1468.0	806.6	564.8	491.3	494.8	474.1	454.6	433.8
45°	4632.0	4470.8	3699.8	1468.0	781.1	539.9	488.9	486.6	465.8	441.5	417.8
47.5°	4776.6	4610.1	3820.7	1505.3	765.1	519.1	475.9	480.0	458.7	427.9	404.8
50°	4888.6	4741.7	3983.7	1563.4	749.1	502.6	459.3	481.8	452.8	420.8	394.1
52.5°	5031.5	4899.9	4179.9	1642.8	735.5	484.2	444.5	481.8	452.2	421.4	392.3
55°	5229.4	5090.7	4416.3	1708.6	713.5	467.0	431.4	468.2	450.4	418.4	387.6
57.5°	5368.1	5264.4	4583.4	1752.4	682.1	445.1	419.6	455.1	442.7	407.1	373.4
58°	5374.6	5273.3	4607.7	1762.5	674.4	440.9	416.6	449.2	439.1	402.4	368.6
60°	5299.9	5212.8	4612.5	1748.3	630.6	420.2	401.2	424.9	420.2	374.5	343.1
62.5°	5028.5	4935.5	4421.1	1632.7	572.5	394.7	377.5	392.3	381.7	335.4	306.4
65°	4642.7	4471.4	4027.5	1451.4	531.0	367.4	345.5	346.7	335.4	302.2	276.8
67.5°	4128.9	3937.5	3410.0	1223.2	499.6	337.2	307.6	304.6	291.0	269.6	248.9
70°	3496.5	3365.6	2771.2	995.0	464.6	304.0	264.9	263.1	254.8	238.8	220.5
72.5°	2834.0	2667.4	2237.8	796.5	422.0	272.0	225.2	228.8	218.1	206.8	190.2
75°	2091.4	1982.4	1729.9	638.9	364.5	237.1	187.9	189.1	184.3	172.5	159.4
77.5°	1377.3	1344.7	1237.4	419.6	280.3	188.5	153.5	154.7	151.1	140.5	126.8
80°	926.9	905.0	838.6	270.2	187.3	136.3	118.5	119.7	119.1	107.9	89.5
82.5°	571.3	561.8	540.5	182.5	129.8	97.8	78.2	81.8	88.3	75.9	61.0
85°	269.6	270.2	326.5	99.6	76.4	62.8	42.7	45.6	45.6	45.6	34.4
87.5°	35.0	36.7	45.0	42.1	27.9	23.7	15.4	13.0	11.3	14.8	10.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4
2.5°	1955.7	1943.8	1918.4	1912.4	1908.9	1919.0	1892.3	1899.4	1887.5	1920.7	1915.4
5°	1637.4	1638.6	1659.4	1673.0	1677.7	1673.0	1655.2	1624.4	1600.7	1591.2	1593.6
7.5°	1411.1	1431.8	1467.4	1507.1	1543.2	1553.9	1543.8	1485.1	1421.1	1380.8	1367.8
10°	1335.8	1363.7	1404.5	1436.0	1468.0	1493.4	1498.8	1453.1	1377.3	1281.9	1244.5
12.5°	1339.9	1377.9	1417.0	1427.1	1424.1	1434.2	1429.4	1421.7	1371.9	1250.5	1188.2
15°	1300.8	1345.9	1373.1	1367.8	1358.3	1349.4	1337.0	1317.4	1299.6	1214.3	1145.6
17.5°	1210.8	1257.0	1279.5	1281.3	1281.3	1278.9	1248.7	1241.6	1239.2	1197.7	1155.6
20°	1227.3	1252.8	1242.8	1226.2	1230.9	1246.9	1229.1	1225.6	1239.2	1257.6	1249.9
22.5°	1236.8	1227.9	1152.1	1078.6	1062.0	1111.8	1121.9	1161.6	1216.7	1283.1	1326.3
25°	1178.2	1106.4	970.7	887.8	840.9	887.2	947.6	1021.1	1103.5	1188.8	1239.2
27.5°	985.0	930.4	833.2	758.6	717.7	724.8	776.4	843.3	919.8	977.3	1014.0
30°	742.0	717.7	667.3	641.8	616.9	611.0	632.9	658.4	692.2	699.3	708.8
32.5°	546.4	542.9	545.8	537.5	532.8	532.2	525.7	531.6	535.1	539.3	531.0
35°	494.3	489.5	481.2	478.8	475.9	477.1	474.1	471.1	473.5	477.1	479.4
37.5°	467.6	460.5	448.6	444.5	444.5	446.3	441.5	440.3	444.5	455.7	461.7
40°	446.8	438.5	424.9	419.6	423.1	427.9	421.4	419.0	429.1	440.9	450.4
42.5°	427.3	420.8	407.7	401.8	404.8	413.7	404.2	402.4	415.4	428.5	439.7
45°	410.7	404.2	392.3	389.4	390.5	398.8	392.3	392.3	404.8	419.0	429.1
47.5°	397.7	389.4	381.7	379.3	380.5	385.2	384.0	384.0	395.9	410.7	420.8
50°	384.6	377.5	367.4	368.6	371.6	378.1	377.5	379.3	391.1	409.5	420.2
52.5°	378.7	368.0	356.8	358.0	366.8	374.5	372.2	374.0	387.6	422.0	437.4
55°	372.2	358.0	344.9	346.7	356.8	368.0	365.1	367.4	383.4	430.3	451.6
57.5°	359.7	343.1	328.9	330.1	344.9	356.8	352.0	355.0	374.0	421.4	443.9
58°	354.4	340.2	326.5	327.1	341.4	354.4	349.1	351.4	371.0	419.0	440.3
60°	331.9	323.6	311.7	312.3	325.9	337.2	334.2	336.6	355.6	401.8	417.8
62.5°	301.1	296.3	293.4	293.4	301.7	312.3	315.3	318.2	335.4	363.3	377.5
65°	267.9	267.9	268.5	268.5	273.8	287.4	289.2	296.9	312.9	326.5	337.2
67.5°	245.4	244.2	245.4	242.4	244.8	253.1	261.9	269.1	285.6	295.1	298.7
70°	216.3	215.7	216.3	212.2	215.1	222.2	228.2	240.0	257.2	264.3	266.1
72.5°	187.9	187.9	189.1	186.1	186.1	193.8	197.9	211.0	227.0	231.1	231.7
75°	158.2	160.0	160.0	155.9	157.0	161.8	167.1	177.8	192.6	195.6	195.6
77.5°	125.6	132.2	132.2	128.0	129.8	130.4	137.5	142.8	154.1	155.3	150.5
80°	91.3	97.8	103.1	99.6	102.5	99.0	103.1	106.7	117.9	112.6	104.9
82.5°	65.2	69.9	74.1	74.7	71.7	65.2	70.5	71.1	76.4	69.3	65.2
85°	36.2	40.3	45.6	43.3	38.5	34.4	36.2	37.3	36.7	35.0	32.6
87.5°	9.5	10.1	11.3	8.3	7.7	6.5	8.9	8.9	10.1	10.7	10.1
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°	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4
2.5°	1919.5	1945.6	2001.9	2044.6	2096.7	2160.2	2234.8	2310.1	2391.3	2416.8	2452.3
5°	1588.3	1653.5	1680.7	1758.3	1835.4	1951.0	2074.2	2217.0	2373.5	2448.8	2521.1
7.5°	1357.1	1392.1	1420.5	1477.4	1569.9	1710.3	1865.0	2043.4	2265.0	2374.7	2480.8
10°	1232.7	1236.2	1271.2	1341.7	1422.3	1546.2	1692.6	1892.3	2139.4	2272.8	2397.2
12.5°	1150.3	1134.9	1172.8	1246.3	1337.6	1452.0	1586.5	1776.7	2048.7	2185.6	2336.2
15°	1078.0	1053.7	1082.2	1157.4	1247.5	1382.0	1526.6	1728.1	2013.2	2172.6	2339.7
17.5°	1079.8	1012.8	1022.9	1086.3	1175.8	1312.7	1488.1	1726.3	2067.1	2250.8	2448.8
20°	1213.1	1105.9	1060.2	1072.1	1158.6	1307.9	1505.9	1809.3	2244.3	2512.2	2723.7
22.5°	1344.1	1279.5	1206.0	1181.7	1229.1	1385.6	1619.1	2005.5	2629.5	3033.1	3415.4
25°	1298.5	1353.6	1335.2	1300.8	1311.5	1441.3	1696.1	2166.7	2928.8	3383.4	3742.5
27.5°	1038.9	1139.0	1159.2	1158.6	1162.7	1269.4	1525.4	2058.2	2966.1	3450.3	3793.5
30°	730.1	739.0	749.7	770.4	789.4	884.8	1193.6	1806.9	2949.5	3480.5	3824.3
32.5°	526.9	538.7	553.5	582.0	627.0	748.5	1044.2	1726.9	3037.3	3605.6	3914.4
35°	481.8	495.4	509.7	542.3	584.9	697.5	985.0	1693.7	3181.3	3808.3	4076.1
37.5°	467.6	483.0	495.4	519.1	553.5	660.8	931.0	1671.2	3328.8	4022.8	4293.0
40°	457.5	475.3	485.4	504.3	528.0	627.0	883.0	1653.5	3471.7	4219.0	4467.3
42.5°	448.6	467.0	480.0	493.7	513.2	596.8	840.4	1635.7	3595.5	4409.2	4640.9
45°	438.0	461.1	477.7	488.3	505.5	571.3	807.8	1621.4	3736.6	4578.1	4816.3
47.5°	429.1	454.6	475.3	487.7	494.3	553.5	781.7	1641.0	3906.1	4754.7	4979.3
50°	429.7	454.0	480.0	499.6	482.4	538.7	765.7	1718.6	4126.5	4964.5	5107.9
52.5°	448.6	478.3	499.0	503.7	465.8	520.9	757.4	1854.4	4387.3	5150.0	5237.7
55°	470.0	500.8	523.3	520.3	456.9	498.4	755.6	1999.0	4672.9	5366.3	5406.6
57.5°	462.3	507.3	541.7	526.3	457.5	476.5	747.9	2115.7	4911.8	5528.1	5573.7
58°	459.9	504.9	544.0	525.1	455.7	470.0	746.1	2125.8	4944.9	5539.4	5597.4
60°	436.8	484.2	542.3	516.2	445.7	452.2	726.6	2158.4	4936.1	5481.3	5611.7
62.5°	394.7	433.8	501.4	472.9	414.8	428.5	682.7	2118.1	4695.4	5201.6	5403.6
65°	347.3	376.3	421.4	416.0	371.0	404.2	622.9	1958.7	4213.6	4747.6	4960.4
67.5°	311.7	335.4	363.9	356.2	333.7	371.6	558.3	1689.0	3673.1	4202.4	4470.2
70°	275.6	293.9	308.2	302.8	295.7	339.6	500.8	1370.8	3155.2	3684.4	3944.0
72.5°	238.8	256.0	267.9	260.2	256.0	305.8	454.0	1063.8	2492.0	3039.6	3373.3
75°	199.7	216.9	225.2	216.3	213.9	269.6	384.6	794.7	1869.8	2343.3	2631.3
77.5°	154.7	173.0	183.7	180.8	181.9	221.6	310.5	544.0	1337.0	1597.2	1900.6
80°	108.5	128.6	135.7	132.8	141.0	168.9	219.3	345.5	922.1	1036.5	1250.5
82.5°	67.0	85.9	87.1	90.1	96.0	125.0	165.3	210.4	579.0	598.6	753.8
85°	33.8	40.9	43.9	48.6	53.9	76.4	94.2	130.4	372.8	282.1	421.4
87.5°	11.3	11.9	14.2	17.8	21.9	31.4	40.3	53.3	92.5	51.0	130.4
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: P451394

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4	2254.4
2.5°	2524.0	2574.4	2611.1	2644.9	2612.3	2609.4	2577.4	2525.8	2504.5	2504.5
5°	2672.8	2790.7	2886.1	2947.2	2921.1	2858.3	2754.6	2622.4	2551.3	2538.8
7.5°	2713.7	2946.6	3123.8	3186.6	3142.7	3004.1	2805.5	2582.7	2480.8	2458.2
10°	2688.8	2991.6	3251.8	3351.3	3290.3	3080.5	2809.7	2536.5	2410.8	2384.8
12.5°	2662.7	2997.5	3275.5	3419.5	3379.8	3142.1	2839.9	2506.3	2361.1	2323.7
15°	2681.7	2999.9	3246.5	3395.2	3420.7	3216.2	2889.7	2528.2	2351.0	2311.3
17.5°	2801.4	3045.0	3205.0	3325.3	3414.8	3317.0	3031.3	2633.1	2441.1	2391.9
20°	3051.5	3152.8	3228.7	3321.7	3465.7	3522.6	3321.1	2921.1	2694.1	2650.9
22.5°	3775.7	3757.3	3602.0	3600.3	3808.9	4037.0	4023.4	3506.6	3165.3	3129.7
25°	4047.1	3961.8	3737.2	3682.6	3774.5	4126.5	4075.5	3626.3	3311.0	3224.5
27.5°	3941.0	3729.4	3581.9	3569.4	3539.2	3871.7	3994.4	3674.9	3362.0	3277.9
30°	3934.5	3623.4	3412.4	3437.3	3466.3	3784.0	4039.4	3827.2	3492.4	3402.3
32.5°	3950.5	3638.2	3424.8	3429.6	3516.1	3797.0	4089.2	3993.2	3663.7	3573.6
35°	4015.1	3722.3	3504.2	3493.0	3628.1	3882.3	4173.9	4253.9	3897.8	3795.2
37.5°	4119.4	3890.1	3649.4	3646.5	3842.6	4036.4	4279.4	4517.1	4130.7	4020.4
40°	4272.9	4086.2	3907.8	3891.8	4134.2	4287.1	4416.3	4797.4	4401.5	4259.9
42.5°	4458.4	4321.5	4248.6	4312.0	4544.9	4568.6	4629.7	5056.4	4632.0	4467.3
45°	4630.3	4623.7	4725.1	4893.4	5029.1	4886.9	4852.5	5230.0	4811.0	4632.0
47.5°	4834.7	5011.3	5317.1	5563.7	5705.9	5257.3	5042.7	5343.2	4941.4	4776.6
50°	5042.1	5475.4	5963.7	6307.4	6337.6	5659.7	5173.7	5449.9	5059.9	4888.6
52.5°	5260.2	5845.7	6495.9	6895.3	6836.6	6009.9	5300.5	5522.2	5182.0	5031.5
55°	5449.9	6072.7	6793.4	7176.8	7090.9	6223.3	5437.4	5600.4	5356.2	5229.4
57.5°	5555.9	6091.7	6719.3	7054.1	6961.1	6181.8	5500.2	5658.5	5467.6	5368.1
58°	5571.4	6066.2	6653.5	6983.0	6888.2	6146.8	5499.6	5656.1	5474.8	5374.6
60°	5557.7	5900.9	6408.8	6702.1	6602.5	5927.5	5477.1	5611.7	5384.7	5299.9
62.5°	5431.5	5614.0	5986.2	6199.6	6171.1	5585.0	5384.7	5443.9	5110.3	5028.5
65°	5265.6	5222.9	5445.1	5596.2	5617.6	5328.4	5292.8	5081.2	4758.3	4642.7
67.5°	5064.1	4779.6	4779.0	4864.9	4900.5	4933.7	5101.4	4687.1	4251.0	4128.9
70°	4722.1	4096.3	3907.8	4009.2	3979.5	4259.9	4759.4	4133.6	3639.4	3496.5
72.5°	4095.1	3250.6	2948.9	3079.3	3004.7	3340.7	4164.4	3401.7	3009.4	2834.0
75°	3319.3	2431.6	2120.4	2240.2	2193.9	2534.1	3465.1	2470.7	2158.4	2091.4
77.5°	2577.4	1761.9	1581.1	1564.6	1598.9	1885.8	2541.8	1668.3	1422.9	1377.3
80°	1655.8	1261.1	1271.8	1250.5	1268.2	1188.8	1543.2	1064.4	963.6	926.9
82.5°	1089.9	878.9	1047.8	967.2	918.6	799.5	1012.2	696.9	591.4	571.3
85°	742.6	647.2	589.1	450.4	530.4	615.7	759.2	375.1	297.5	269.6
87.5°	335.4	225.2	165.3	101.9	161.2	186.1	368.6	43.9	33.8	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)