

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: P631061

Luminaire Tested: GWS-SA1E-830-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5699.6 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: B1 - U0 - G2

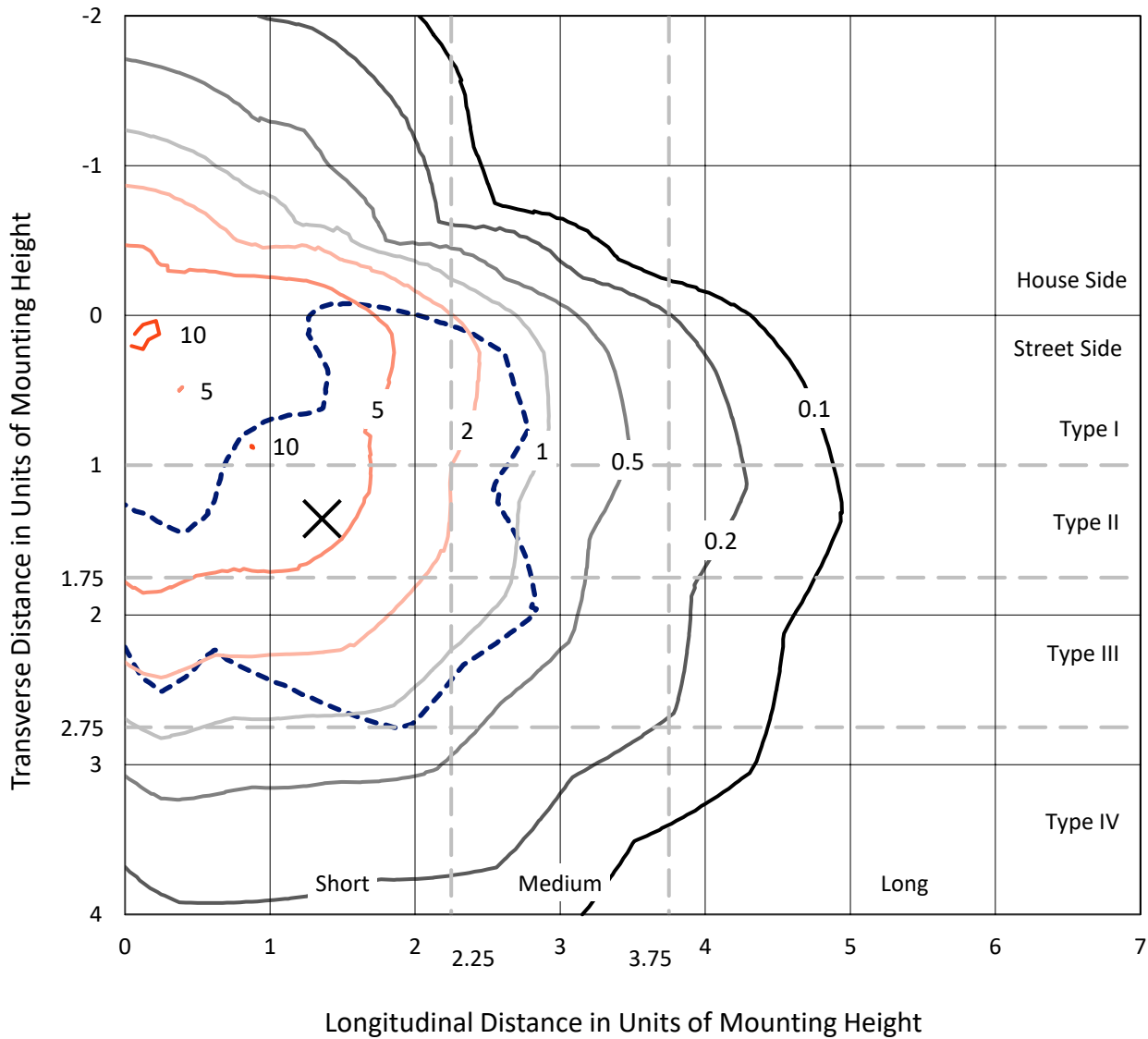
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

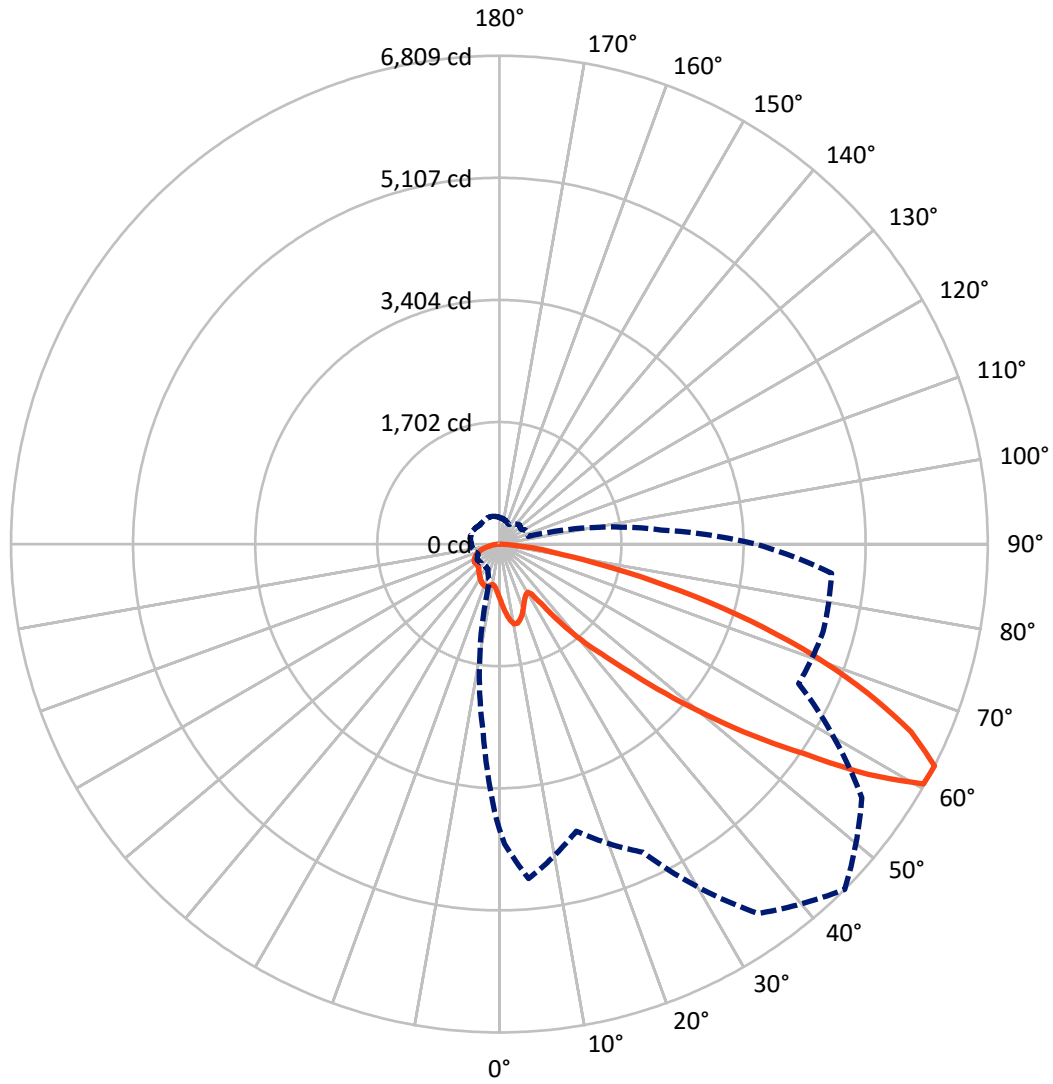
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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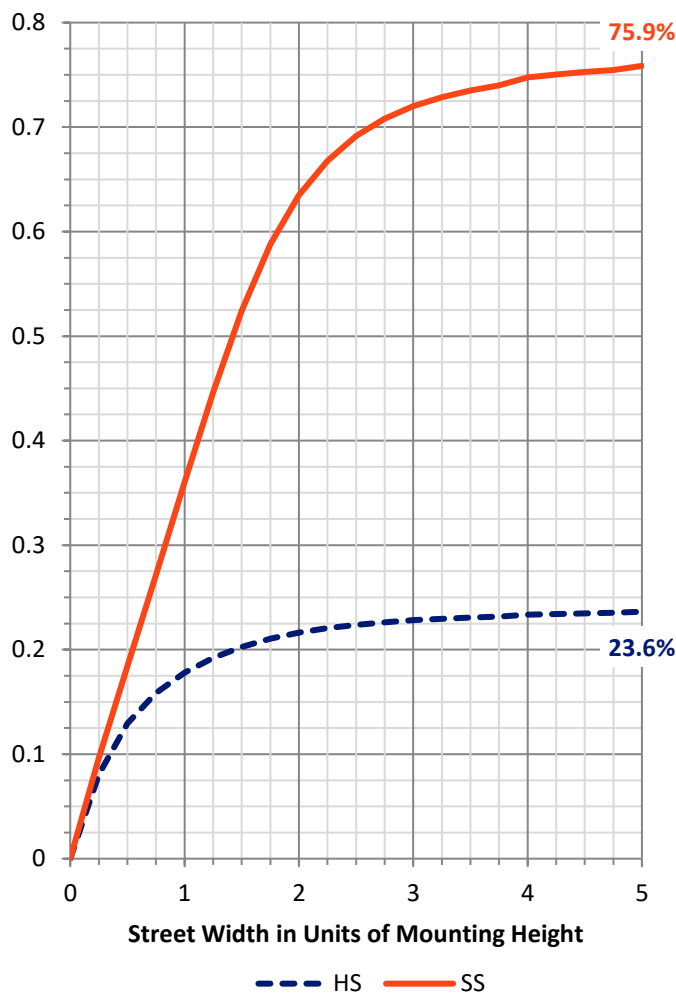
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1360.0	0.0	1360.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4339.6	0.0	4339.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	5699.6	0.0	5699.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	1.3
10°-20°	231.6	4.1
20°-30°	359.7	6.3
30°-40°	488.4	8.6
40°-50°	774.1	13.6
50°-60°	1365.5	24.0
60°-70°	1519.3	26.7
70°-80°	770.5	13.5
80°-90°	116.7	2.0
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°	5699.6	100.0
0°-180°	5699.6	100.0

Coefficient of Utilization



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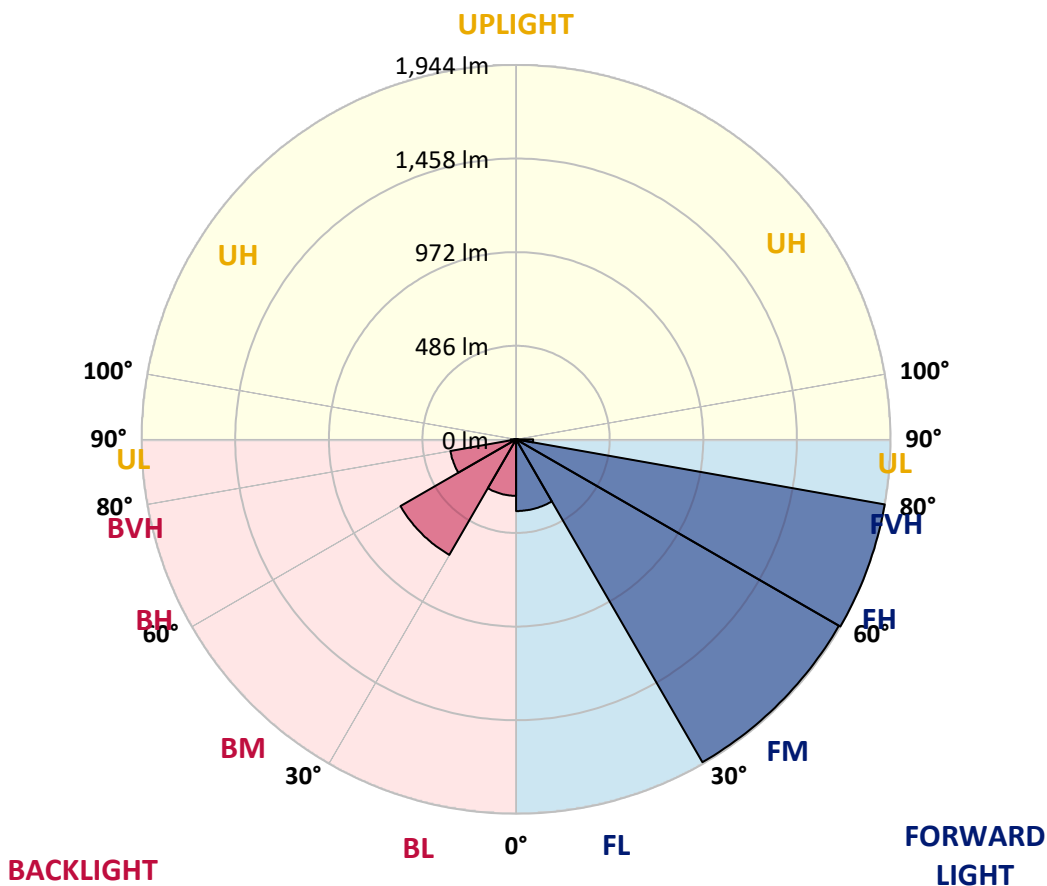
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.1	6.5			
FM (30°-60°)	1935.3	34.0			
FH (60°-80°)	1943.6	34.1			G2/5000
FVH (80°-90°)	88.6	1.6			G1/100
BL (0°-30°)	293.1	5.1	B1/500		
BM (30°-60°)	692.7	12.2	B1/1000		
BH (60°-80°)	346.2	6.1	B1/500		G1/500
BVH (80°-90°)	28.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5
2.5°	813.0	812.6	820.7	833.3	844.9	850.1	858.7	857.9	851.0	841.9	838.9
5°	876.8	878.6	892.8	920.4	951.1	964.0	969.6	967.5	955.0	939.0	910.9
7.5°	934.7	937.7	959.7	1001.1	1039.1	1056.4	1070.2	1067.6	1049.5	1019.7	978.3
10°	977.0	980.4	1006.7	1055.5	1097.8	1112.9	1130.6	1131.4	1115.5	1075.3	1033.1
12.5°	1019.2	1022.7	1047.3	1091.7	1119.4	1119.8	1130.1	1135.8	1136.6	1118.1	1075.8
15°	1063.3	1066.3	1088.7	1113.8	1112.5	1088.3	1088.3	1099.1	1122.8	1136.2	1106.8
17.5°	1100.8	1104.7	1122.0	1113.8	1075.3	1031.8	1026.6	1040.4	1081.8	1133.2	1130.1
20°	1131.9	1134.9	1144.4	1090.0	1020.1	963.2	953.2	969.2	1025.3	1114.6	1147.8
22.5°	1161.6	1163.4	1158.2	1058.9	960.6	895.4	883.3	900.1	960.6	1081.8	1162.9
25°	1197.0	1195.3	1170.7	1026.6	906.2	841.9	829.4	848.4	911.4	1038.2	1179.3
27.5°	1238.0	1231.6	1181.5	991.6	864.3	802.2	793.6	813.8	872.5	998.1	1192.3
30°	1273.0	1260.5	1183.2	960.6	842.8	785.4	780.2	799.2	853.5	970.9	1208.7
32.5°	1311.8	1294.6	1193.2	952.4	854.8	825.9	832.8	834.1	858.7	963.2	1233.3
35°	1367.5	1345.0	1220.3	976.1	979.1	1027.9	1052.9	1019.2	936.8	980.4	1279.9
37.5°	1451.6	1423.2	1275.6	1078.8	1235.9	1345.0	1405.5	1328.6	1174.2	1045.6	1350.2
40°	1553.9	1517.7	1346.3	1268.7	1475.8	1650.6	1758.0	1645.4	1418.4	1208.3	1449.0
42.5°	1696.7	1658.8	1483.6	1455.1	1698.0	1958.2	2098.5	1930.6	1633.7	1418.4	1607.4
45°	1945.7	1909.0	1735.1	1641.9	1958.2	2337.1	2533.9	2300.4	1852.5	1629.4	1903.4
47.5°	2405.7	2362.6	2108.8	1849.1	2255.1	2829.0	3104.3	2764.3	2079.9	1871.1	2400.5
50°	2958.1	2916.6	2577.9	2094.2	2583.1	3355.1	3737.8	3309.3	2341.9	2164.9	2994.7
52.5°	3622.6	3614.8	3247.2	2404.0	2924.4	3916.0	4440.8	3913.0	2628.8	2560.6	3667.9
55°	4221.6	4297.5	4097.3	2876.5	3365.4	4620.7	5163.6	4571.5	3018.0	3214.8	4456.3
57.5°	4544.3	4748.4	5056.1	3840.5	4006.7	5463.0	6055.5	5375.4	3686.9	4304.0	5187.3
60°	4331.2	4562.5	5120.0	4566.3	4642.7	6137.9	6791.7	6051.2	4343.7	5060.0	5145.9
62.5°	3976.5	4184.0	4679.8	4142.6	4741.1	6286.4	6808.9	6169.0	4604.7	4676.4	4648.3
65°	3555.7	3765.0	4290.2	3616.1	4428.3	5933.8	6306.7	5822.5	4135.7	4225.0	4235.4
67.5°	2996.9	3190.2	3724.9	3215.3	4036.4	5416.4	5535.5	5328.8	3808.6	3951.0	3802.1
70°	2239.2	2413.5	2885.6	2612.8	3402.5	4742.4	4646.2	4676.8	3441.4	3582.9	3176.0
72.5°	1530.2	1661.3	2066.1	2053.2	2605.5	3796.5	3662.3	3952.7	2874.3	3062.1	2421.3
75°	1070.2	1172.4	1493.5	1622.1	1969.5	2813.9	2608.1	2958.5	2244.8	2512.7	1766.6
77.5°	656.8	724.5	943.3	1201.8	1266.9	1925.9	1619.9	2226.2	1576.3	1832.7	1178.5
80°	328.4	361.2	458.3	755.6	840.2	1134.9	894.5	1292.4	1066.7	1134.9	652.0
82.5°	99.2	109.6	134.2	287.0	435.4	653.3	528.6	750.8	582.6	532.1	256.8
85°	26.3	29.8	37.1	85.0	152.8	234.3	178.6	363.8	279.2	196.3	96.7
87.5°	2.2	2.2	1.7	1.7	0.9	0.0	0.0	25.9	52.2	29.8	16.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5
2.5°	823.8	822.0	804.4	791.4	776.3	761.6	746.5	733.2	718.0	702.9	698.6
5°	890.2	878.1	840.6	809.1	778.0	750.8	727.1	702.5	682.7	663.2	655.9
7.5°	948.9	927.8	873.4	825.5	782.3	748.7	713.7	677.9	649.9	622.3	615.3
10°	1002.0	973.9	905.3	844.9	797.0	758.6	717.6	669.7	629.2	595.5	586.4
12.5°	1041.3	1010.6	932.9	863.5	809.1	765.9	725.4	683.1	640.4	596.8	586.9
15°	1072.3	1040.4	955.8	877.7	809.5	753.9	714.6	699.9	686.5	643.8	625.7
17.5°	1097.4	1063.7	975.7	886.3	797.9	717.2	683.1	704.7	738.8	712.0	677.9
20°	1120.2	1086.1	990.8	892.4	772.0	666.7	647.7	693.5	744.8	743.9	713.3
22.5°	1145.3	1112.0	1012.8	895.8	735.7	615.3	626.6	677.1	718.9	731.4	712.4
25°	1177.2	1147.8	1043.4	903.6	694.7	580.0	611.0	655.9	690.9	693.9	682.7
27.5°	1214.3	1192.3	1089.2	921.7	655.0	561.8	592.9	626.1	658.1	659.4	646.0
30°	1254.9	1240.2	1131.4	936.8	625.3	556.2	569.6	596.4	616.6	620.1	608.4
32.5°	1306.6	1293.7	1169.0	926.9	607.6	554.9	548.0	561.8	578.7	578.7	569.6
35°	1377.8	1359.7	1208.7	888.9	586.0	549.8	525.2	529.0	536.4	537.7	532.5
37.5°	1478.8	1449.0	1248.8	813.8	550.6	531.2	498.8	494.1	496.7	500.1	498.8
40°	1604.0	1555.2	1307.5	723.7	508.3	495.4	471.7	462.6	460.4	467.3	469.9
42.5°	1761.5	1686.8	1370.5	639.5	469.9	454.4	439.7	432.0	428.5	440.1	447.1
45°	2013.0	1890.1	1430.9	556.2	448.3	419.4	409.5	403.9	405.6	419.4	428.1
47.5°	2447.6	2200.3	1488.3	503.6	446.6	394.4	382.3	383.6	388.4	403.0	413.4
50°	2997.3	2615.9	1526.7	481.6	451.8	379.3	363.3	370.2	377.6	391.8	403.9
52.5°	3557.0	3002.9	1481.0	469.5	451.4	379.7	345.6	366.4	369.8	384.1	397.0
55°	3941.9	3046.1	1279.5	450.9	444.5	397.0	331.8	364.6	366.8	379.7	391.4
57.5°	4088.6	2898.5	975.7	456.1	423.8	410.4	325.8	352.6	368.1	379.3	391.4
60°	3911.3	2620.2	592.9	469.5	390.5	409.5	329.7	330.5	357.3	376.3	388.4
62.5°	3576.9	2262.9	416.4	431.5	366.4	386.6	338.7	304.7	338.3	361.2	372.0
65°	3193.7	1842.6	317.6	371.5	354.7	351.3	341.8	281.8	312.4	334.9	344.4
67.5°	2794.5	1432.2	258.0	277.0	320.6	317.6	312.4	261.5	281.8	297.7	308.5
70°	2291.8	1002.0	217.9	208.0	274.9	284.8	273.2	236.0	242.5	258.9	267.5
72.5°	1676.5	624.4	179.1	171.7	220.9	249.0	242.9	208.0	211.0	226.5	233.5
75°	1205.7	357.3	143.7	141.5	168.7	213.2	201.1	179.1	182.5	194.2	198.9
77.5°	766.4	198.9	110.9	113.9	120.8	159.2	171.7	153.2	153.2	160.1	164.0
80°	410.4	113.9	81.1	82.4	84.6	121.7	135.5	118.7	118.7	113.9	118.7
82.5°	167.4	65.6	55.7	51.8	56.5	83.3	94.9	75.5	79.0	71.2	72.9
85°	55.2	32.8	27.6	27.2	26.8	36.7	45.7	37.5	44.9	28.5	29.8
87.5°	7.3	6.0	3.5	2.6	3.0	1.3	2.6	3.0	3.0	2.2	2.2
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°	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5
2.5°	695.6	692.2	679.6	682.7	680.5	677.1	680.5	674.0	679.2	680.9	691.7
5°	650.3	642.1	630.0	624.0	622.7	619.2	619.7	616.6	617.5	624.8	636.9
7.5°	609.7	602.0	592.5	588.2	584.3	580.4	580.0	579.5	583.0	589.5	601.1
10°	580.4	576.1	572.2	573.9	572.2	570.5	567.4	567.4	573.1	584.7	598.9
12.5°	580.4	579.5	580.4	585.6	585.1	585.6	581.7	583.8	599.4	619.2	639.5
15°	611.5	604.6	604.6	607.1	606.3	606.3	606.3	615.3	650.7	681.4	702.9
17.5°	649.4	629.2	620.5	619.2	618.8	618.8	620.5	639.9	695.2	727.5	740.1
20°	675.8	637.4	623.1	617.5	617.9	618.8	624.0	650.7	711.6	728.0	725.0
22.5°	680.5	630.9	613.6	605.4	606.7	607.6	615.3	643.8	689.1	691.7	685.7
25°	658.5	612.8	594.2	587.7	589.5	589.0	595.9	616.6	649.0	648.1	644.7
27.5°	625.7	583.8	570.0	565.7	568.7	565.3	567.4	583.4	608.4	607.6	606.3
30°	592.0	555.8	543.3	541.1	545.0	539.8	540.3	553.6	570.9	570.0	569.6
32.5°	558.4	527.7	516.5	516.5	520.4	514.8	515.7	527.3	539.0	535.5	535.5
35°	526.5	504.9	495.8	494.1	497.1	493.2	495.0	505.7	510.1	505.3	502.3
37.5°	498.4	488.9	479.8	473.8	474.2	474.7	479.8	488.0	485.5	478.6	474.7
40°	472.5	472.5	463.9	452.7	451.4	454.4	463.0	472.1	464.7	457.0	452.2
42.5°	454.0	457.8	449.6	438.4	435.8	441.0	450.5	457.0	448.3	439.7	433.2
45°	436.7	446.2	440.6	428.1	424.6	430.7	442.7	445.3	433.7	425.5	420.7
47.5°	424.6	437.6	433.7	421.6	416.4	425.0	437.6	437.1	422.5	413.8	409.9
50°	416.0	432.4	432.0	421.6	416.0	426.8	438.0	432.4	416.4	407.4	403.5
52.5°	409.1	432.0	435.0	428.9	425.0	434.5	441.4	430.7	412.1	402.6	399.6
55°	406.1	433.7	435.8	430.2	426.8	435.4	441.4	434.1	412.1	403.5	400.9
57.5°	406.9	431.5	432.0	424.2	418.1	428.9	438.4	436.3	416.8	406.9	403.9
60°	401.7	419.9	420.7	408.6	401.7	414.7	431.5	430.2	414.7	404.3	398.7
62.5°	384.5	400.4	400.9	389.7	379.7	398.3	416.8	416.4	402.2	391.8	385.3
65°	355.6	372.4	376.7	365.9	358.2	378.0	397.4	396.6	382.3	372.8	366.4
67.5°	319.8	337.9	346.1	338.7	335.7	353.8	372.0	371.5	359.9	350.8	345.2
70°	276.2	291.3	305.1	305.1	302.9	323.6	343.1	341.3	330.5	323.6	319.3
72.5°	239.9	251.6	255.9	260.2	266.7	288.3	304.7	305.9	298.2	294.7	298.2
75°	204.1	211.4	215.3	211.9	223.1	245.5	267.1	269.3	261.1	255.5	256.8
77.5°	167.9	176.1	179.9	172.2	171.3	199.8	226.1	230.9	224.0	215.3	217.9
80°	121.3	132.0	138.5	133.3	131.6	144.1	180.4	185.6	179.1	172.2	176.1
82.5°	74.2	80.3	82.0	87.2	98.0	103.1	116.1	133.3	128.6	122.6	133.3
85°	29.3	35.0	38.8	44.0	51.4	60.8	71.6	85.4	77.7	75.1	88.5
87.5°	1.7	0.4	0.0	0.9	7.3	14.2	30.6	42.3	35.4	38.0	45.7
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: P631061
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5
2.5°	700.4	711.6	726.7	739.2	755.2	770.3	785.8	801.3	809.5	813.0
5°	650.7	671.4	695.6	722.4	753.4	786.2	819.5	853.5	875.1	876.8
7.5°	621.0	650.7	684.0	717.6	756.0	801.3	854.0	906.6	928.6	934.7
10°	630.4	663.7	690.0	721.5	763.8	820.3	882.5	944.2	969.6	977.0
12.5°	668.4	674.9	683.1	712.0	763.8	836.7	911.8	985.2	1012.3	1019.2
15°	699.9	668.9	654.2	684.8	753.4	851.0	942.9	1024.0	1056.8	1063.3
17.5°	702.5	649.0	617.1	644.7	735.3	860.9	972.6	1067.1	1094.8	1100.8
20°	676.2	627.9	586.4	603.3	710.7	865.2	994.2	1098.6	1125.8	1131.9
22.5°	646.4	610.6	565.7	564.9	680.9	869.9	1020.1	1128.4	1157.8	1161.6
25°	618.4	586.9	548.9	536.8	646.4	879.0	1055.1	1173.3	1195.7	1197.0
27.5°	585.6	561.4	535.5	523.9	616.2	896.3	1106.8	1226.8	1240.2	1238.0
30°	555.8	537.7	526.0	522.6	597.2	909.2	1156.0	1279.5	1280.3	1273.0
32.5°	524.3	517.4	517.4	528.6	581.7	906.2	1196.2	1330.8	1322.6	1311.8
35°	496.2	497.5	506.6	532.9	555.8	876.0	1234.6	1395.1	1383.0	1367.5
37.5°	469.5	479.4	492.4	517.8	521.7	831.1	1279.5	1486.2	1471.0	1451.6
40°	446.6	461.7	476.8	489.3	485.5	767.2	1342.0	1593.2	1576.3	1553.9
42.5°	428.5	443.2	460.0	461.3	462.6	700.8	1408.5	1724.4	1721.3	1696.7
45°	416.8	426.3	442.3	440.1	461.3	627.4	1469.8	1924.6	1964.3	1945.7
47.5°	409.1	416.4	418.1	427.2	472.5	561.8	1548.7	2316.4	2426.9	2405.7
50°	404.8	412.1	392.7	428.1	474.2	519.5	1657.9	2808.3	2986.1	2958.1
52.5°	404.3	402.6	373.3	437.1	464.7	493.7	1714.9	3167.4	3561.8	3622.6
55°	405.2	383.6	363.3	439.7	445.8	484.2	1524.1	3340.0	4093.0	4221.6
57.5°	397.4	362.9	368.9	429.4	409.9	509.6	1126.7	3278.3	4305.3	4544.3
60°	382.8	343.1	379.3	401.3	373.3	466.0	775.9	3002.9	4085.2	4331.2
62.5°	361.6	329.2	378.0	365.1	359.9	381.5	533.4	2617.6	3736.1	3976.5
65°	337.9	318.0	357.7	330.1	333.1	293.4	377.1	2182.6	3319.2	3555.7
67.5°	312.4	311.1	328.0	293.9	281.4	232.6	274.9	1749.4	2783.7	2996.9
70°	283.5	293.0	298.2	261.1	228.3	182.5	204.1	1223.4	2053.6	2239.2
72.5°	254.6	255.5	262.8	227.0	170.9	146.3	153.2	740.9	1395.1	1530.2
75°	225.3	217.1	224.0	184.7	127.3	120.0	118.2	457.8	963.6	1070.2
77.5°	193.8	184.7	175.6	138.9	102.3	92.8	90.6	256.8	591.2	656.8
80°	157.5	145.4	131.2	101.8	74.7	66.5	66.0	125.1	294.7	328.4
82.5°	122.6	99.7	95.8	63.4	46.2	40.6	43.2	47.9	88.9	99.2
85°	85.9	72.5	50.9	25.5	20.7	16.8	16.4	14.2	23.7	26.3
87.5°	47.9	31.5	16.4	3.0	3.5	3.9	3.0	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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