

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: P528316

Luminaire Tested: **GALN-SA3B-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9300 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

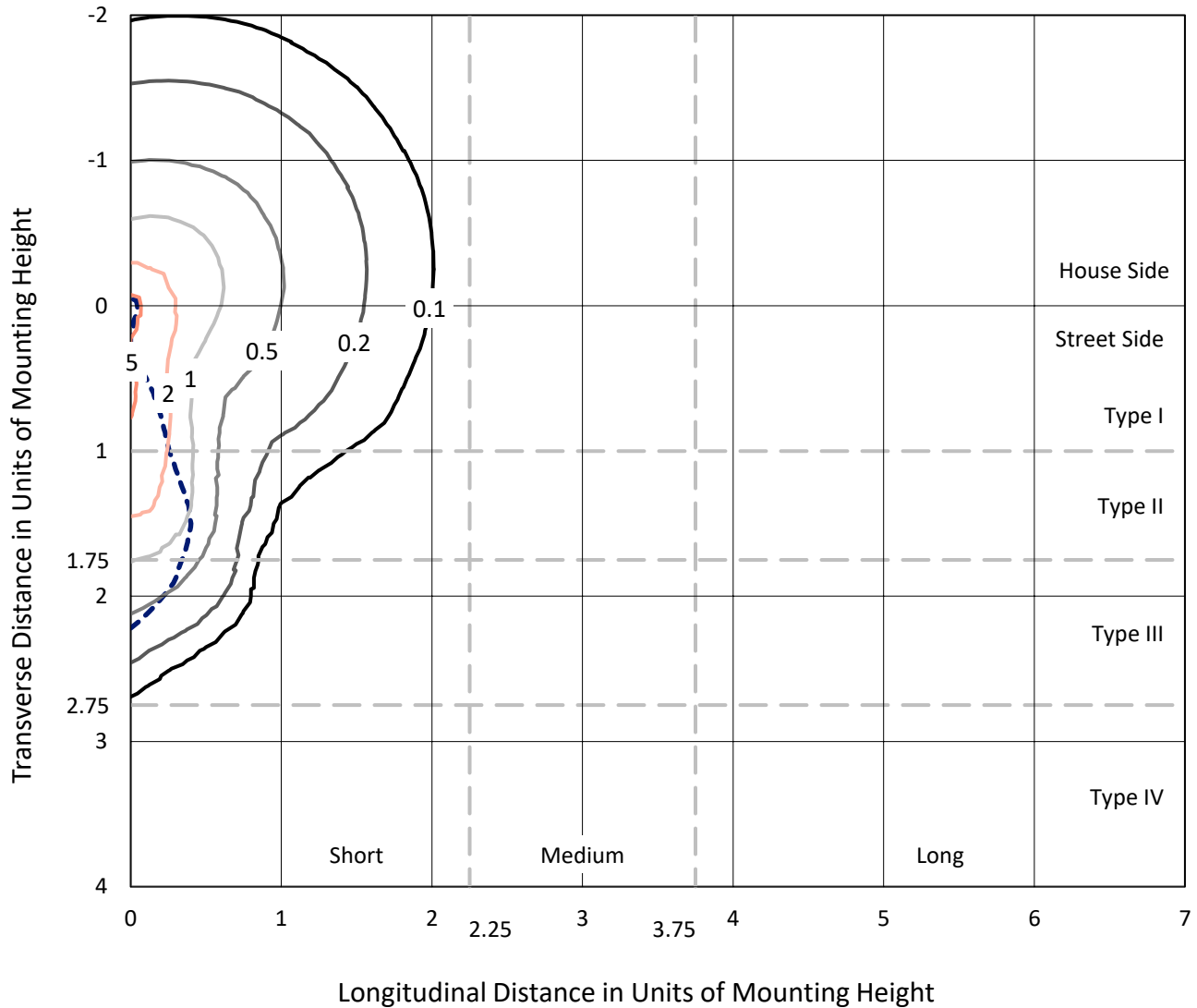
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

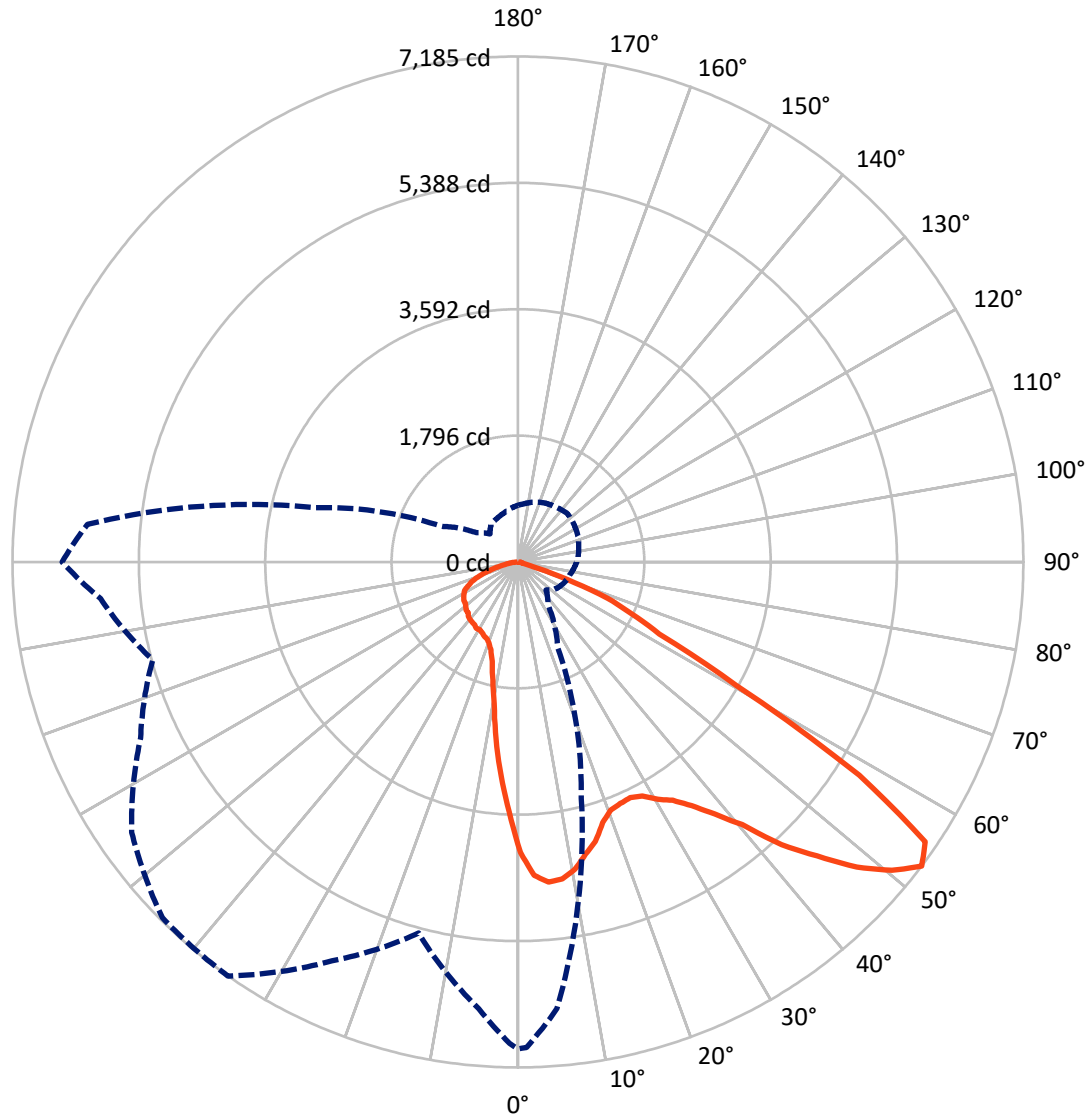
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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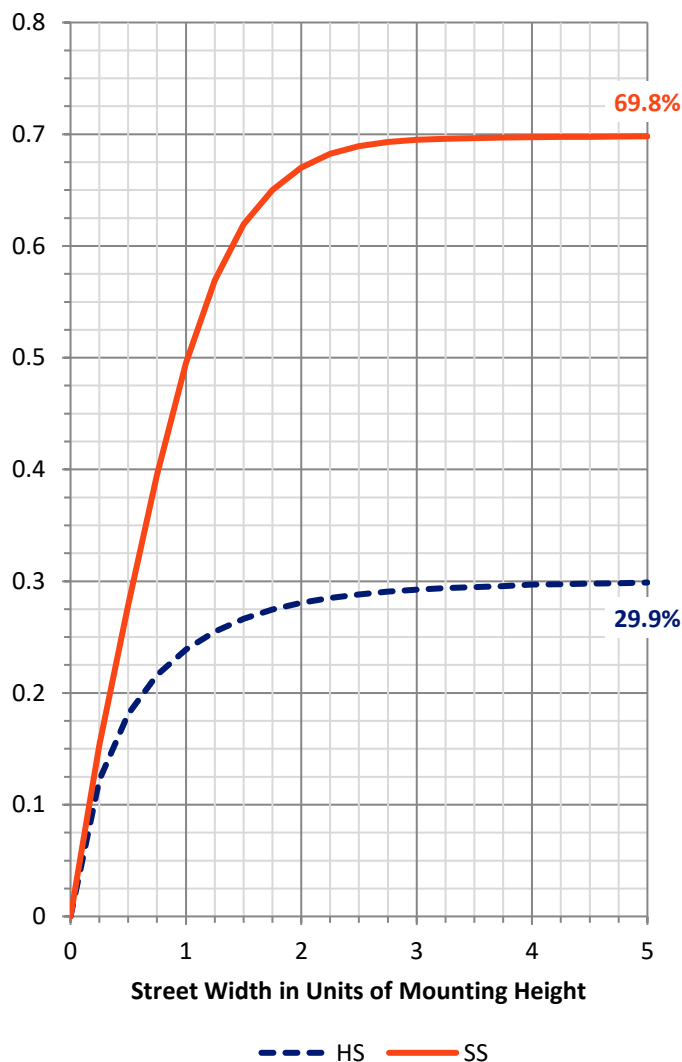
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2803.6	0.0	2803.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	6496.4	0.0	6496.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	9300.0	0.0	9300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	3.4
10°-20°	682.6	7.3
20°-30°	1031.4	11.1
30°-40°	1490.4	16.0
40°-50°	1983.5	21.3
50°-60°	2218.5	23.9
60°-70°	1250.4	13.4
70°-80°	278.7	3.0
80°-90°	49.6	0.5
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°	9300.0	100.0
0°-180°	9300.0	100.0

Coefficient of Utilization



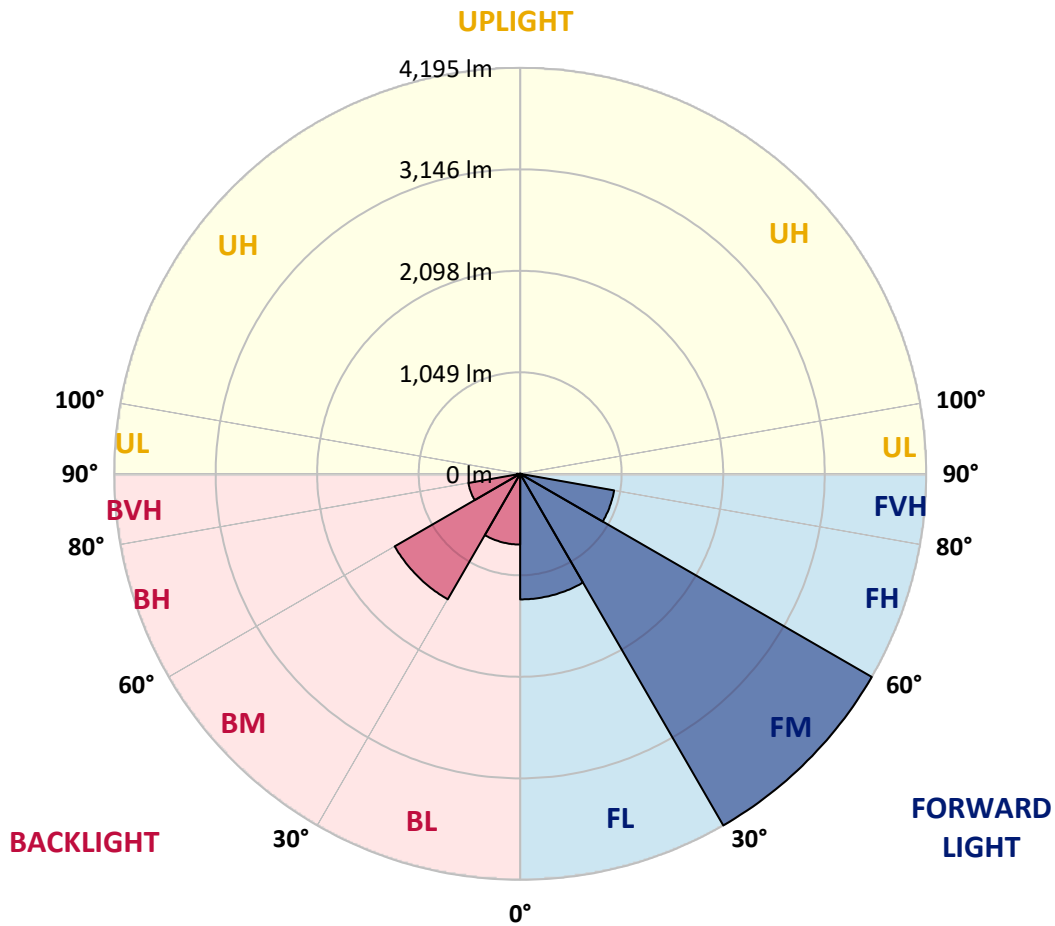
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.8	14.0			
FM (30°-60°)	4195.0	45.1			
FH (60°-80°)	985.7	10.6			G1/1800
FVH (80°-90°)	18.0	0.2			G1/100
BL (0°-30°)	731.1	7.9	B2/1000		
BM (30°-60°)	1497.4	16.1	B2/2500		
BH (60°-80°)	543.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	31.7	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°	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4
2.5°	4196.1	4263.5	4190.8	4061.3	3969.7	3886.1	3798.5	3781.0	3666.4	3646.2	3562.6
5°	3957.6	3942.7	3853.8	3683.9	3496.6	3326.7	3201.4	3080.0	2997.8	2902.1	2895.4
7.5°	3667.7	3581.5	3530.3	3272.8	3041.0	2774.1	2659.5	2474.8	2416.9	2330.6	2286.1
10°	3408.9	3345.6	3225.6	2968.2	2644.7	2468.1	2345.4	2245.7	2178.3	2089.3	1977.4
12.5°	3280.9	3255.3	3120.5	2721.5	2481.6	2292.8	2206.6	2109.5	1995.0	1852.1	1796.8
15°	3303.8	3217.5	3115.1	2674.3	2342.7	2160.8	2023.3	1901.9	1755.0	1618.9	1539.3
17.5°	3475.0	3408.9	3204.1	2704.0	2290.2	2027.3	1777.9	1598.7	1466.6	1343.9	1288.6
20°	3812.0	3716.3	3485.8	2741.7	2176.9	1841.3	1555.5	1334.5	1192.9	1128.2	1109.4
22.5°	4185.4	4128.7	3760.8	2826.6	2086.6	1668.8	1319.6	1098.6	1046.0	1028.5	1063.5
25°	4639.6	4492.7	4188.1	2965.5	2016.5	1521.8	1120.1	997.5	970.5	988.0	1028.5
27.5°	4984.7	4945.6	4487.3	3096.2	1920.8	1345.2	1008.3	927.4	935.5	953.0	990.7
30°	5394.5	5196.3	4777.1	3186.5	1834.5	1223.9	930.1	908.5	916.6	946.3	965.1
32.5°	5641.1	5567.0	4959.1	3322.7	1734.8	1118.8	869.4	849.2	861.3	905.8	950.3
35°	5955.2	5808.3	5184.2	3357.7	1664.7	1077.0	826.3	811.5	839.8	870.8	920.6
37.5°	6321.8	6220.8	5495.6	3333.5	1627.0	1033.9	789.9	783.2	803.4	846.5	904.5
40°	6538.9	6507.9	5658.7	3348.3	1567.7	996.1	748.1	756.2	798.0	831.7	888.3
42.5°	6747.8	6545.6	5899.9	3342.9	1529.9	944.9	752.2	742.7	775.1	814.2	868.1
45°	6793.6	6592.8	5956.6	3305.2	1484.1	895.0	721.1	725.2	764.3	812.8	847.9
47.5°	6764.0	6615.7	6061.7	3294.4	1440.9	860.0	675.3	723.8	746.8	785.8	835.7
50°	6743.8	6735.7	6150.7	3345.6	1383.0	804.7	620.1	706.3	729.2	768.3	822.2
52.5°	6921.7	6904.2	6373.1	3480.4	1337.2	745.4	563.4	661.8	717.1	754.8	807.4
55°	7029.5	6952.7	6754.5	3646.2	1260.3	667.2	524.3	606.6	687.5	721.1	775.1
57.5°	6323.2	6270.6	6110.2	3403.6	1130.9	564.8	475.8	550.0	647.0	699.6	754.8
60°	5261.0	5178.8	4767.7	2892.7	834.4	439.4	446.2	505.5	636.2	656.4	721.1
62.5°	4960.4	4756.9	4197.5	2327.9	640.3	377.4	400.3	465.0	579.6	613.3	678.0
65°	3936.0	3785.0	3003.2	1680.9	428.6	327.5	365.3	419.2	500.1	566.1	625.4
67.5°	2464.0	2319.8	1602.7	795.3	299.2	280.4	326.2	382.8	448.9	508.2	574.2
70°	1287.3	1129.6	740.0	287.1	206.2	229.2	272.3	326.2	390.9	439.4	490.7
72.5°	479.9	389.6	241.3	124.0	142.9	175.2	221.1	260.2	306.0	365.3	393.6
75°	74.1	63.4	62.0	75.5	97.1	126.7	157.7	196.8	237.2	275.0	293.9
77.5°	35.0	33.7	37.7	49.9	64.7	90.3	114.6	152.3	184.7	208.9	219.7
80°	22.9	21.6	24.3	33.7	48.5	67.4	91.7	117.3	146.9	167.1	164.4
82.5°	13.5	14.8	14.8	22.9	33.7	48.5	66.0	89.0	109.2	126.7	115.9
85°	8.1	6.7	6.7	13.5	22.9	39.1	55.3	37.7	39.1	39.1	44.5
87.5°	2.7	2.7	2.7	1.3	2.7	2.7	4.0	6.7	8.1	9.4	12.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4
2.5°	3559.9	3601.7	3586.9	3534.3	3574.7	3581.5	3554.5	3647.5	3665.1	3636.7	3644.8
5°	2885.9	2896.7	2921.0	2972.2	3008.6	3051.7	3051.7	3054.4	3018.0	3109.7	3082.7
7.5°	2248.4	2255.1	2283.4	2392.6	2423.6	2505.8	2540.9	2516.6	2443.8	2412.8	2438.4
10°	1941.0	1901.9	1892.5	1906.0	1976.1	2011.1	2040.8	2032.7	2020.6	1996.3	1969.3
12.5°	1736.1	1707.8	1684.9	1652.6	1656.6	1690.3	1713.2	1694.4	1699.8	1705.1	1713.2
15°	1513.7	1493.5	1481.4	1432.9	1427.5	1450.4	1458.5	1469.3	1489.5	1490.8	1481.4
17.5°	1277.8	1260.3	1287.3	1314.2	1295.4	1296.7	1311.5	1321.0	1315.6	1291.3	1279.2
20°	1116.1	1135.0	1161.9	1187.5	1207.8	1219.9	1225.3	1210.5	1192.9	1143.1	1141.7
22.5°	1068.9	1093.2	1116.1	1155.2	1174.1	1205.1	1176.8	1143.1	1118.8	1094.5	1066.2
25°	1033.9	1054.1	1099.9	1114.7	1151.1	1176.8	1156.5	1122.8	1081.0	1046.0	1024.4
27.5°	1008.3	1031.2	1060.8	1101.3	1129.6	1144.4	1124.2	1110.7	1067.6	1025.8	994.8
30°	992.1	1016.3	1070.3	1104.0	1128.2	1140.4	1105.3	1089.1	1058.1	1023.1	996.1
32.5°	981.3	1002.9	1048.7	1091.8	1108.0	1108.0	1113.4	1094.5	1051.4	992.1	969.2
35°	946.3	975.9	1013.7	1063.5	1093.2	1110.7	1083.7	1062.2	1033.9	973.2	931.4
37.5°	926.0	946.3	994.8	1042.0	1067.6	1086.4	1075.7	1037.9	1000.2	950.3	916.6
40°	904.5	936.8	980.0	1024.4	1052.7	1071.6	1063.5	1019.0	973.2	926.0	903.1
42.5°	889.6	911.2	955.7	1005.6	1039.3	1075.7	1051.4	996.1	963.8	899.1	873.5
45°	877.5	912.6	959.7	980.0	1015.0	1052.7	1009.6	975.9	938.2	891.0	869.4
47.5°	862.7	895.0	926.0	980.0	996.1	1013.7	1005.6	951.6	919.3	868.1	853.2
50°	857.3	869.4	926.0	955.7	978.6	996.1	974.6	934.1	903.1	850.6	818.2
52.5°	835.7	858.6	895.0	934.1	962.4	984.0	949.0	923.3	881.6	826.3	806.1
55°	808.8	822.2	886.9	927.4	942.2	957.0	943.6	901.8	858.6	802.0	781.8
57.5°	773.7	804.7	857.3	913.9	932.8	940.9	919.3	885.6	831.7	781.8	749.5
60°	737.3	769.7	827.6	873.5	892.3	922.0	889.6	869.4	807.4	752.2	717.1
62.5°	700.9	737.3	780.5	838.4	854.6	866.7	858.6	830.3	780.5	718.5	675.3
65°	657.8	684.8	738.7	768.3	779.1	807.4	779.1	768.3	723.8	664.5	628.1
67.5°	593.1	616.0	663.2	691.5	699.6	711.7	710.4	698.2	648.4	607.9	575.6
70°	519.0	539.2	568.8	602.5	606.6	621.4	607.9	605.2	572.9	517.6	500.1
72.5°	416.5	435.4	474.5	489.3	490.7	496.0	489.3	479.9	471.8	413.8	396.3
75°	319.5	330.2	349.1	362.6	362.6	369.3	365.3	355.9	334.3	297.9	280.4
77.5°	222.4	233.2	257.5	265.5	264.2	266.9	254.8	245.3	213.0	194.1	179.3
80°	161.8	168.5	180.6	186.0	187.4	191.4	176.6	168.5	149.6	128.1	121.3
82.5°	117.3	121.3	122.7	129.4	129.4	122.7	118.6	110.5	97.1	83.6	78.2
85°	48.5	49.9	51.2	59.3	60.7	72.8	67.4	63.4	55.3	47.2	43.1
87.5°	12.1	13.5	17.5	14.8	17.5	17.5	18.9	21.6	21.6	17.5	17.5
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°	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4
2.5°	3675.8	3686.6	3824.1	3841.6	3909.0	3977.8	4116.6	4216.4	4297.2	4349.8	4364.6
5°	3111.0	3179.8	3243.1	3345.6	3438.6	3570.7	3723.0	3911.7	4149.0	4270.3	4318.8
7.5°	2435.7	2516.6	2608.3	2708.0	2844.2	3081.4	3284.9	3503.3	3806.6	3931.9	4122.0
10°	1988.2	2078.5	2199.8	2276.7	2441.1	2667.6	2904.8	3156.9	3446.7	3627.3	3847.0
12.5°	1757.7	1831.9	1943.7	2105.5	2228.1	2375.1	2551.7	2869.8	3284.9	3456.1	3607.1
15°	1503.0	1585.2	1714.6	1893.9	2040.8	2216.0	2414.2	2760.6	3202.7	3466.9	3595.0
17.5°	1292.7	1352.0	1488.1	1643.1	1811.6	2003.0	2287.5	2755.2	3289.0	3627.3	3836.2
20°	1147.1	1155.2	1229.3	1361.4	1590.6	1839.9	2209.3	2728.2	3565.3	3903.6	4167.8
22.5°	1055.4	1047.4	1048.7	1160.6	1321.0	1679.5	2086.6	2819.9	3879.4	4343.1	4521.0
25°	1009.6	988.0	974.6	998.8	1144.4	1489.5	1993.6	2941.2	4217.7	4705.7	4924.0
27.5°	985.3	947.6	920.6	924.7	1031.2	1393.8	1935.6	2993.8	4553.3	5211.1	5288.0
30°	975.9	928.7	889.6	876.2	946.3	1260.3	1811.6	3084.1	4853.9	5488.8	5554.9
32.5°	942.2	884.2	846.5	834.4	862.7	1143.1	1722.7	3148.8	5119.5	5790.8	5767.8
35°	903.1	854.6	807.4	784.5	804.7	1067.6	1651.2	3117.8	5432.2	6025.3	6013.2
37.5°	899.1	835.7	796.6	758.9	757.5	974.6	1554.2	3147.4	5631.7	6445.9	6280.1
40°	864.0	823.6	772.4	741.4	723.8	927.4	1459.8	3077.4	5924.2	6615.7	6452.6
42.5°	865.4	804.7	760.2	723.8	706.3	858.6	1395.1	3058.5	6026.6	6892.0	6533.5
45°	843.8	784.5	746.8	703.6	694.2	806.1	1333.1	2970.9	6207.3	6905.5	6432.4
47.5°	822.2	769.7	729.2	678.0	656.4	787.2	1284.6	2898.1	6112.9	6778.8	6292.2
50°	807.4	746.8	709.0	672.6	612.0	754.8	1221.2	2880.6	5980.8	6607.6	6032.0
52.5°	781.8	727.9	688.8	660.5	563.4	725.2	1197.0	2983.0	6142.6	6479.6	5956.6
55°	757.5	702.3	652.4	597.1	523.0	647.0	1129.6	3078.7	6378.5	6774.8	6298.9
57.5°	731.9	679.4	625.4	559.4	483.9	566.1	1059.5	3096.2	5936.3	6261.2	5979.5
60°	698.2	630.8	590.4	504.1	442.1	469.1	839.8	2729.6	4604.6	5228.7	5238.1
62.5°	660.5	587.7	552.7	451.6	399.0	404.4	684.8	2294.2	3735.1	4328.2	4585.7
65°	610.6	540.5	498.7	417.9	368.0	350.5	501.4	1680.9	2837.4	3511.4	3803.9
67.5°	545.9	479.9	427.3	363.9	328.9	300.6	342.4	946.3	1675.5	2357.5	2446.5
70°	477.2	420.6	365.3	312.7	273.6	253.4	250.7	419.2	800.7	1268.4	1443.6
72.5°	376.1	335.6	291.2	252.1	226.5	196.8	179.3	173.9	270.9	516.3	713.1
75°	269.6	235.9	210.3	184.7	165.8	149.6	136.1	124.0	113.2	129.4	177.9
77.5°	169.8	157.7	137.5	130.8	120.0	115.9	110.5	103.8	95.7	90.3	90.3
80°	114.6	106.5	99.7	98.4	94.4	93.0	94.4	87.6	79.5	72.8	75.5
82.5°	76.8	75.5	74.1	72.8	74.1	75.5	78.2	76.8	70.1	66.0	67.4
85°	45.8	48.5	51.2	53.9	59.3	52.6	43.1	36.4	32.4	29.7	28.3
87.5°	17.5	24.3	21.6	20.2	21.6	20.2	18.9	17.5	14.8	13.5	13.5
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: P528316

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4	4127.4
2.5°	4463.0	4490.0	4512.9	4507.5	4460.3	4397.0	4371.4	4240.6	4213.7	4196.1
5°	4523.7	4680.1	4713.8	4693.5	4570.9	4415.9	4264.9	4073.5	3961.6	3957.6
7.5°	4411.8	4604.6	4665.2	4711.1	4548.0	4278.4	4019.6	3732.5	3662.4	3667.7
10°	4127.4	4434.7	4584.3	4631.5	4444.2	4211.0	3852.4	3561.3	3411.6	3408.9
12.5°	3969.7	4211.0	4252.8	4318.8	4263.5	4027.6	3755.4	3429.2	3283.6	3280.9
15°	3829.5	3988.6	4000.7	4093.7	4123.4	3964.3	3781.0	3433.2	3315.9	3303.8
17.5°	3952.2	3841.6	3795.8	3807.9	3895.6	3953.5	3929.2	3662.4	3542.4	3475.0
20°	4034.4	3787.7	3648.9	3662.4	3766.1	3977.8	4150.3	3994.0	3803.9	3812.0
22.5°	4254.1	3795.8	3578.8	3564.0	3728.4	4104.5	4399.7	4413.2	4229.8	4185.4
25°	4583.0	3888.8	3557.2	3553.2	3710.9	4240.6	4690.8	4909.2	4721.8	4639.6
27.5°	4847.2	4034.4	3624.6	3638.1	3766.1	4351.2	4938.9	5228.7	5085.8	4984.7
30°	5079.0	4185.4	3719.0	3657.0	3914.4	4409.1	5045.3	5592.6	5478.0	5394.5
32.5°	5174.7	4399.7	3868.6	3766.1	4037.1	4479.2	5266.4	5945.8	5847.4	5641.1
35°	5336.5	4519.6	3949.5	3941.4	4251.4	4647.7	5370.2	6179.0	6138.5	5955.2
37.5°	5465.9	4641.0	4236.6	4147.6	4545.3	4930.8	5537.3	6501.1	6408.1	6321.8
40°	5565.7	4858.0	4504.8	4622.1	4906.5	5188.2	5691.0	6521.3	6789.6	6538.9
42.5°	5474.0	5052.1	4945.6	5226.0	5495.6	5482.1	5708.5	6677.7	6878.5	6747.8
45°	5451.1	5381.0	5642.5	5897.2	5959.2	5726.1	5583.2	6505.2	6851.6	6793.6
47.5°	5395.8	5704.5	6160.1	6575.3	6480.9	5889.2	5433.6	6474.2	6867.8	6764.0
50°	5376.9	5774.6	6542.9	6947.3	6890.7	6030.7	5363.5	6274.7	6753.2	6743.8
52.5°	5375.6	5918.8	6702.0	7149.5	7184.5	6254.4	5459.2	6375.8	6842.2	6921.7
55°	5436.2	5873.0	6681.7	7037.6	7024.1	6154.7	5469.9	6443.2	6951.3	7029.5
57.5°	5127.6	5261.0	5514.4	5796.1	5723.4	5097.9	4884.9	5956.6	6379.8	6323.2
60°	4428.0	4010.1	3724.4	3710.9	3569.3	3373.9	3998.0	5316.3	5316.3	5261.0
62.5°	3878.0	2632.5	2261.8	2156.7	2257.8	2482.9	3856.5	5170.7	5023.8	4960.4
65°	3391.4	2009.8	1635.1	1605.4	1780.6	2120.3	3487.1	4405.1	4146.3	3936.0
67.5°	2182.3	1472.0	1215.8	1163.3	1374.9	1556.9	2321.2	2709.4	2546.3	2464.0
70°	1407.3	958.4	676.7	634.9	717.1	959.7	1482.7	1579.8	1342.5	1287.3
72.5°	665.9	413.8	237.2	195.5	219.7	366.6	586.4	630.8	524.3	479.9
75°	211.6	152.3	97.1	83.6	79.5	94.4	134.8	103.8	75.5	74.1
77.5°	94.4	90.3	76.8	64.7	56.6	47.2	39.1	32.4	33.7	35.0
80°	78.2	71.4	63.4	56.6	47.2	36.4	28.3	21.6	21.6	22.9
82.5°	68.7	62.0	55.3	47.2	40.4	29.7	21.6	14.8	13.5	13.5
85°	29.7	35.0	37.7	40.4	32.4	24.3	14.8	9.4	8.1	8.1
87.5°	12.1	10.8	9.4	8.1	6.7	6.7	5.4	4.0	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)