

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: P456699

Luminaire Tested: **GALN-SA8A-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26621 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

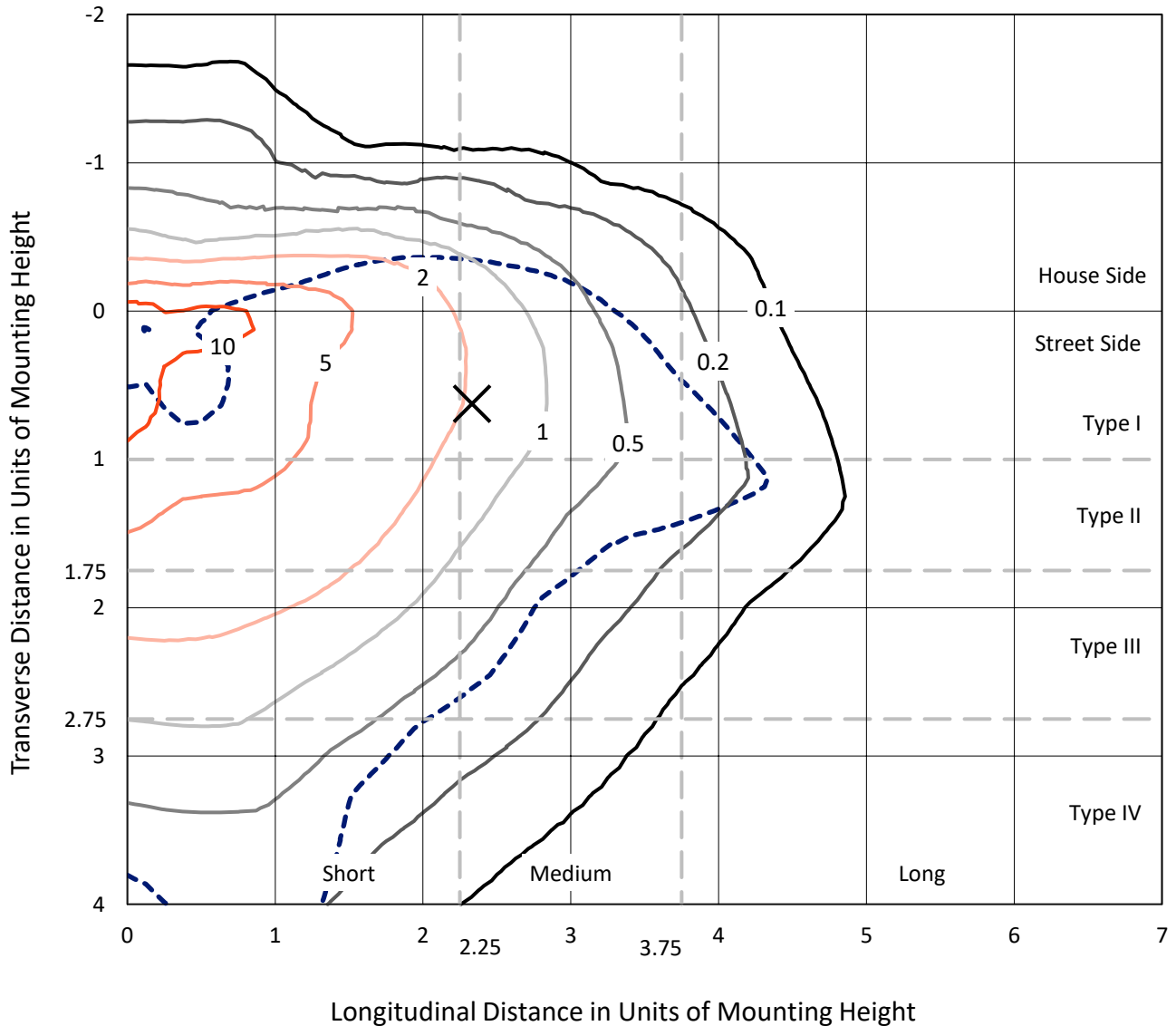
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

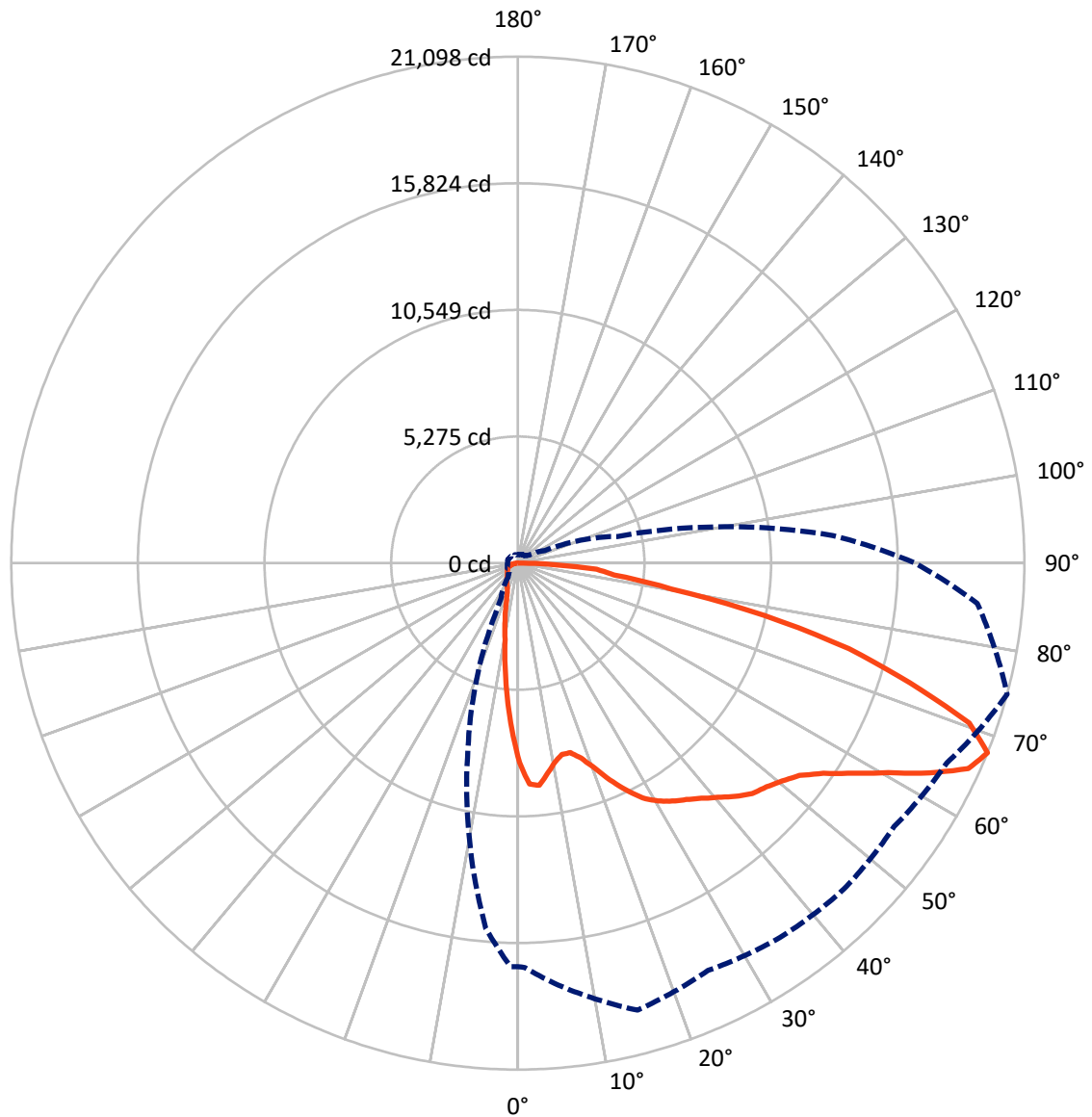
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4499.5	0.0	4499.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	22121.5	0.0	22121.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	26621.0	0.0	26621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.8	2.4
10°-20°	1315.6	4.9
20°-30°	1893.2	7.1
30°-40°	2726.7	10.2
40°-50°	3830.3	14.4
50°-60°	5341.9	20.1
60°-70°	6351.1	23.9
70°-80°	3740.5	14.1
80°-90°	791.0	3.0
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°	26621.0	100.0
0°-180°	26621.0	100.0

Coefficient of Utilization



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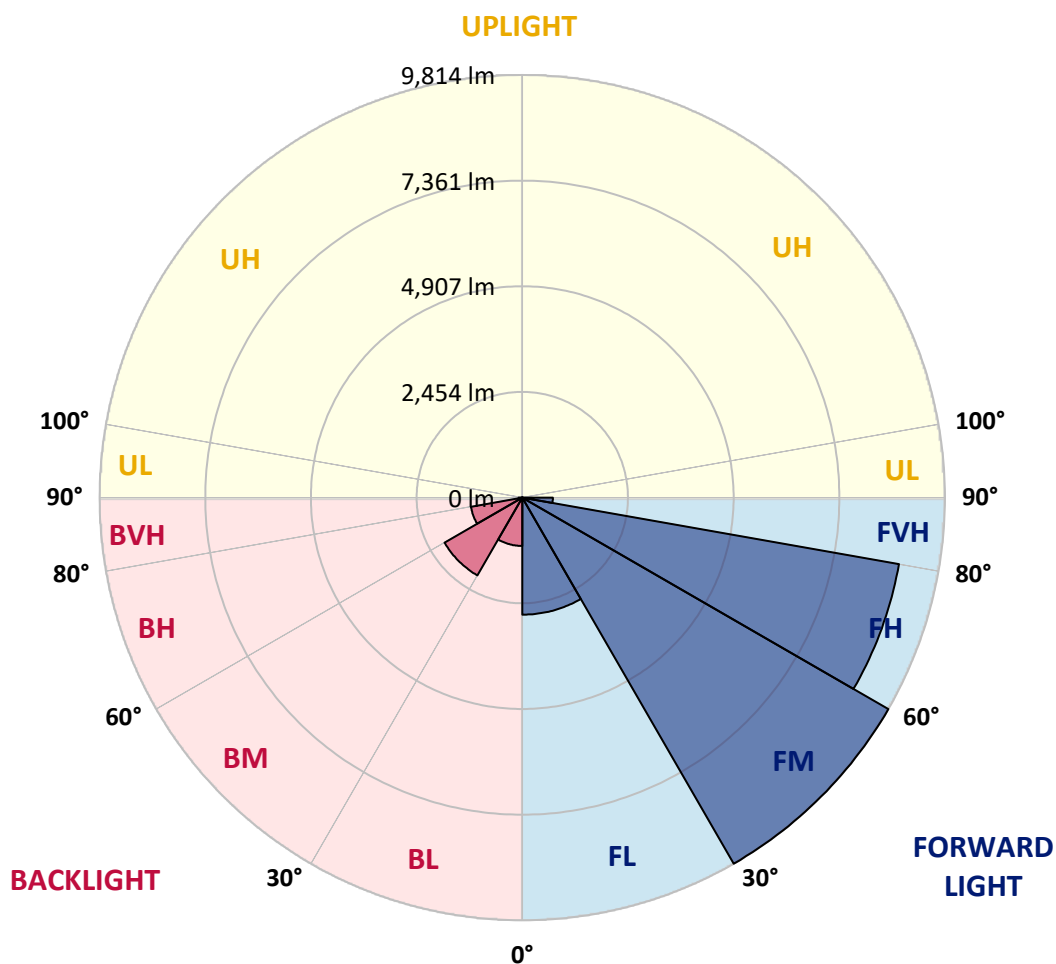
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2717.3	10.2			
FM	(30°-60°)	9814.2	36.9			
FH	(60°-80°)	8880.9	33.4			G4/12000
FVH	(80°-90°)	709.2	2.7			G4/750
BL	(0°-30°)	1122.3	4.2	B3/2500		
BM	(30°-60°)	2084.6	7.8	B2/2500		
BH	(60°-80°)	1210.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	81.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0
2.5°	8967.4	8979.4	9056.2	9279.8	9433.5	9489.8	9529.1	9455.7	9384.0	9209.8	8947.0
5°	8940.1	9010.1	9209.8	9711.7	10107.8	10278.5	10329.7	10109.5	9745.9	9298.6	8760.9
7.5°	8417.7	8511.6	8818.9	9660.5	10358.7	10758.2	10705.3	10307.5	9652.0	8854.8	8103.6
10°	7798.1	7902.2	8272.6	9290.1	10189.7	10739.4	10739.4	10254.6	9384.0	8436.5	7571.0
12.5°	7306.4	7415.7	7839.0	8909.4	9838.1	10358.7	10445.8	10029.3	9191.1	8171.9	7221.1
15°	7144.2	7250.1	7705.9	8678.9	9465.9	9783.4	9812.5	9675.9	9097.2	8190.7	7205.7
17.5°	7345.7	7482.3	7943.2	8747.2	9124.5	9143.3	9165.5	9273.0	9107.4	8533.8	7516.4
20°	7927.8	8074.6	8556.0	8967.4	8825.7	8631.1	8643.1	8919.6	9228.6	9100.6	8259.0
22.5°	8767.7	8895.7	9389.1	9355.0	8699.4	8298.3	8214.6	8600.4	9407.9	9807.3	9049.4
25°	9674.2	9824.4	10391.2	9930.2	8735.3	8100.2	8047.3	8412.6	9593.9	10468.0	9962.7
27.5°	10712.1	10858.9	11306.2	10510.7	8923.1	8084.9	8021.7	8395.6	9761.2	11079.1	10835.0
30°	11483.7	11618.6	11922.4	10998.9	9153.5	8187.3	8108.8	8530.4	9904.6	11497.4	11685.2
32.5°	12089.7	12229.7	12395.3	11302.8	9457.4	8373.4	8228.3	8776.2	10092.4	11816.6	12315.1
35°	12721.4	12887.0	12875.0	11572.5	9740.8	8588.5	8446.8	9131.3	10387.8	12094.9	13114.0
37.5°	13522.0	13588.6	13503.2	11814.9	10080.5	8976.0	8897.4	9658.8	10807.7	12431.2	14047.8
40°	14334.6	14467.7	14029.0	12108.5	10493.6	9704.9	9696.4	10439.0	11306.2	12825.5	14952.6
42.5°	15031.1	15143.8	14520.7	12364.6	10993.8	10594.3	10659.2	11485.4	11960.0	13283.0	15679.8
45°	15555.2	15655.9	14974.8	12612.1	11652.7	11622.0	12004.4	12607.0	12784.5	13694.4	16106.6
47.5°	16000.7	16098.0	15290.6	12987.7	12467.0	12849.4	13515.2	13776.4	13489.6	13930.0	16584.6
50°	16376.3	16405.3	15507.4	13434.9	13477.6	14353.4	14998.7	15167.7	14186.1	14268.0	16999.4
52.5°	16767.2	16729.7	15881.2	13998.3	14570.2	15780.5	16250.0	16425.8	14853.5	14684.5	17603.7
55°	17643.0	17678.8	16719.4	14708.4	15674.7	17182.0	17800.0	17631.0	15592.7	15451.0	18371.9
57.5°	18701.4	18670.6	17899.0	15819.8	16799.7	18486.3	18947.2	18675.8	16579.4	16504.3	19150.3
60°	19112.8	19153.8	18885.7	17014.7	17909.3	19628.3	20099.5	19677.8	17762.5	17728.3	19737.6
62.5°	18699.7	18930.1	19111.1	18078.3	18855.0	20468.2	20936.0	20454.6	18996.7	19244.2	20149.0
65°	17876.8	17926.3	18542.6	18979.6	19310.8	20606.5	20850.6	20594.6	20027.8	20625.3	20130.2
67.5°	16808.2	16850.9	17573.0	19275.0	18723.6	19036.0	19206.7	19131.6	19708.6	21098.1	19203.3
70°	15790.7	15756.6	16519.7	18522.1	16299.5	15824.9	15966.6	15731.0	17006.2	19942.4	17385.2
72.5°	13810.5	13933.4	14752.8	16429.2	12905.7	12134.1	12443.1	11833.7	13079.9	17079.6	14111.0
75°	10817.9	10847.0	12214.4	13788.3	9735.6	8518.5	8936.7	8682.4	10019.0	14247.5	9744.2
77.5°	7490.8	7425.9	8895.7	10531.1	6942.8	6236.1	6242.9	6121.7	6995.7	10490.2	6620.2
80°	4757.7	4658.7	5568.6	6505.8	4771.4	5104.3	4937.0	4931.8	4554.6	6471.6	4003.2
82.5°	2570.9	2680.2	3518.3	4078.3	3422.8	3945.1	3615.7	3509.8	3125.7	4051.0	2560.7
85°	1171.1	1273.5	1876.1	2774.1	2599.9	2628.9	1756.6	2072.4	2586.3	3289.6	1367.4
87.5°	114.4	146.8	387.5	1309.4	887.7	699.9	261.2	503.6	650.4	1169.4	109.3
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°	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0
2.5°	8839.4	8750.6	8448.5	8199.2	7934.6	7733.2	7470.3	7294.5	7173.3	6990.6	6968.4
5°	8433.1	8216.3	7690.5	7154.5	6691.9	6343.6	5990.2	5665.9	5474.7	5414.9	5338.1
7.5°	7748.6	7383.2	6707.2	6092.7	5561.8	5042.8	4643.3	4360.0	4170.5	4059.5	3926.3
10°	7185.2	6761.9	5939.0	5186.2	4749.2	4426.5	4074.9	3771.0	3537.1	3337.4	3228.1
12.5°	6806.2	6328.2	5403.0	4791.9	4453.8	4110.7	3699.3	3357.9	3013.0	2786.0	2688.7
15°	6691.9	6186.6	5237.4	4595.5	4110.7	3661.7	3200.8	2755.3	2413.9	2198.8	2127.1
17.5°	6971.8	6360.7	5235.7	4334.3	3707.8	3171.8	2581.1	2162.9	1812.9	1652.5	1601.3
20°	7494.2	6695.3	5251.1	4076.6	3270.8	2516.3	1877.8	1534.7	1367.4	1299.1	1273.5
22.5°	8223.1	7205.7	5297.2	3822.2	2792.8	1932.4	1406.7	1232.5	1172.8	1160.8	1155.7
25°	9121.1	7837.3	5452.5	3593.5	2390.0	1474.9	1176.2	1097.7	1063.5	1051.6	1049.9
27.5°	9947.3	8653.3	5640.3	3397.1	2000.7	1271.8	1063.5	997.0	962.8	961.1	964.5
30°	10693.3	9336.2	5797.3	3176.9	1705.4	1130.1	990.1	923.5	891.1	889.4	899.6
32.5°	11338.6	9897.8	5913.4	2960.1	1541.5	1043.0	923.5	851.8	824.5	819.4	824.5
35°	12028.3	10457.7	5860.5	2791.1	1447.6	971.3	874.0	804.0	771.6	756.2	756.2
37.5°	12815.3	11034.7	5770.0	2651.1	1404.9	911.6	831.4	763.1	730.6	715.3	713.6
40°	13673.9	11611.7	5645.4	2526.5	1362.3	875.7	802.3	730.6	691.4	676.0	672.6
42.5°	14431.9	12105.1	5543.0	2444.6	1292.3	882.6	776.7	706.7	657.2	636.8	635.0
45°	15090.8	12601.9	5524.2	2396.8	1234.2	872.3	769.9	688.0	629.9	607.7	604.3
47.5°	15606.4	13119.1	5631.7	2369.5	1171.1	817.7	814.3	676.0	606.0	582.1	578.7
50°	16234.6	13853.2	5877.6	2313.1	1113.0	766.5	860.4	674.3	587.2	556.5	548.0
52.5°	17071.1	14809.2	6210.5	2212.4	1029.4	718.7	821.1	674.3	565.1	534.3	524.1
55°	18336.0	16028.0	6536.5	2070.7	911.6	655.5	740.9	653.8	532.6	505.3	498.5
57.5°	19174.2	16919.1	6744.8	1874.4	764.8	609.4	638.5	621.4	500.2	471.2	471.2
60°	19216.9	17158.1	6645.8	1626.9	672.6	566.8	554.8	626.5	471.2	440.4	437.0
62.5°	18725.3	16572.6	6130.2	1404.9	623.1	520.7	501.9	549.7	442.1	411.4	406.3
65°	17957.1	15078.9	5235.7	1299.1	595.8	479.7	452.4	450.7	411.4	382.4	375.6
67.5°	16545.3	13177.2	4301.9	1237.7	582.1	433.6	408.0	399.5	375.6	351.7	348.3
70°	14464.3	11036.5	3450.1	1212.0	575.3	385.8	365.3	355.1	334.6	315.8	314.1
72.5°	11253.3	8952.1	2847.5	1195.0	571.9	341.4	319.2	305.6	293.6	276.6	276.6
75°	8083.2	6586.0	2173.1	1077.2	529.2	293.6	269.7	261.2	244.1	230.5	233.9
77.5°	5095.7	4435.1	1430.6	792.1	409.7	235.6	215.1	210.0	196.3	177.5	189.5
80°	3441.5	3118.9	834.8	498.5	257.8	172.4	165.6	163.9	148.5	128.0	129.7
82.5°	2342.2	2297.8	433.6	283.4	148.5	100.7	97.3	100.7	83.6	68.3	68.3
85°	915.0	1249.6	204.9	111.0	47.8	15.4	22.2	23.9	13.7	6.8	8.5
87.5°	17.1	128.0	5.1	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0
2.5°	6934.3	6918.9	6944.5	6835.3	6857.5	6898.4	6918.9	6930.9	7099.9	7060.6	7168.1
5°	5409.8	5394.5	5493.5	5507.1	5558.3	5548.1	5597.6	5609.6	5671.0	5693.2	5843.4
7.5°	3934.9	4001.5	4114.1	4172.2	4259.2	4286.5	4260.9	4324.1	4196.1	4288.3	4315.6
10°	3161.6	3081.3	3033.5	3166.7	3183.8	3310.1	3258.9	3217.9	3293.0	3296.4	3368.1
12.5°	2632.4	2459.9	2345.6	2383.1	2424.1	2478.7	2487.3	2569.2	2623.8	2675.0	2717.7
15°	2063.9	2004.1	1900.0	1848.8	1906.8	1929.0	1982.0	2050.2	2108.3	2123.6	2181.7
17.5°	1584.2	1594.4	1577.4	1546.6	1582.5	1599.6	1603.0	1604.7	1620.0	1609.8	1695.2
20°	1275.2	1311.1	1353.7	1360.6	1372.5	1381.1	1365.7	1307.6	1309.4	1345.2	1372.5
22.5°	1154.0	1160.8	1208.6	1224.0	1261.6	1246.2	1201.8	1174.5	1171.1	1179.6	1193.3
25°	1058.4	1068.6	1102.8	1126.7	1155.7	1128.4	1096.0	1070.4	1066.9	1075.5	1089.1
27.5°	973.1	988.4	1019.1	1043.0	1070.4	1044.8	1014.0	991.8	990.1	988.4	997.0
30°	904.8	921.8	944.0	971.3	990.1	967.9	938.9	927.0	925.3	921.8	925.3
32.5°	836.5	863.8	886.0	899.6	918.4	901.4	879.2	872.3	860.4	850.1	845.0
35°	759.7	788.7	822.8	839.9	858.7	841.6	826.2	797.2	776.7	775.0	778.4
37.5°	715.3	727.2	754.5	783.6	802.3	793.8	764.8	735.8	730.6	730.6	734.1
40°	676.0	681.1	693.1	730.6	764.8	739.2	703.3	694.8	694.8	693.1	694.8
42.5°	636.8	641.9	641.9	670.9	725.5	684.6	657.2	657.2	657.2	658.9	664.1
45°	600.9	602.6	600.9	621.4	672.6	638.5	619.7	624.8	628.2	631.6	635.0
47.5°	570.2	571.9	570.2	587.2	612.9	599.2	589.0	595.8	602.6	607.7	611.1
50°	542.9	541.2	544.6	554.8	566.8	570.2	563.3	573.6	577.0	583.8	592.4
52.5°	519.0	517.3	520.7	525.8	542.9	542.9	542.9	551.4	558.2	565.1	577.0
55°	491.6	493.4	498.5	505.3	527.5	524.1	525.8	532.6	539.4	549.7	556.5
57.5°	466.0	469.5	476.3	486.5	508.7	507.0	508.7	512.1	520.7	525.8	532.6
60°	437.0	443.8	452.4	459.2	481.4	479.7	488.2	495.1	500.2	500.2	503.6
62.5°	408.0	418.2	426.8	431.9	455.8	457.5	469.5	474.6	478.0	474.6	479.7
65°	379.0	394.3	397.8	404.6	428.5	430.2	443.8	455.8	452.4	449.0	457.5
67.5°	350.0	368.7	367.0	375.6	399.5	402.9	414.8	435.3	428.5	425.1	431.9
70°	317.5	331.2	332.9	338.0	370.4	365.3	384.1	402.9	397.8	399.5	399.5
72.5°	281.7	293.6	293.6	303.9	338.0	329.5	344.8	365.3	365.3	363.6	363.6
75°	239.0	245.8	252.7	268.0	303.9	293.6	303.9	322.6	326.1	322.6	322.6
77.5°	192.9	203.1	206.6	227.0	252.7	250.9	261.2	269.7	276.6	273.1	273.1
80°	136.6	146.8	160.5	182.7	198.0	203.1	208.3	215.1	218.5	218.5	221.9
82.5°	76.8	92.2	104.1	126.3	133.2	158.8	157.1	162.2	157.1	138.3	153.6
85°	17.1	32.4	46.1	58.0	66.6	92.2	97.3	109.3	90.5	83.6	83.6
87.5°	0.0	0.0	0.0	0.0	0.0	13.7	27.3	37.6	32.4	27.3	27.3
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: P456699

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0	8317.0
2.5°	7258.6	7407.1	7586.4	7895.4	8112.2	8346.1	8581.6	8832.6	8899.2	8967.4
5°	5884.4	6176.3	6335.1	6749.9	7185.2	7738.3	8190.7	8685.8	8892.3	8940.1
7.5°	4457.3	4655.3	5071.8	5491.8	6031.2	6611.6	7304.7	8076.3	8317.0	8417.7
10°	3533.7	3803.4	4168.8	4619.4	5092.3	5717.1	6499.0	7400.3	7741.7	7798.1
12.5°	3007.9	3308.4	3706.1	4182.4	4629.7	5100.8	5889.5	6819.9	7185.2	7306.4
15°	2405.3	2768.9	3228.1	3730.0	4216.6	4732.1	5531.0	6580.9	7002.6	7144.2
17.5°	1889.8	2183.4	2680.2	3224.7	3801.7	4453.8	5455.9	6695.3	7214.2	7345.7
20°	1445.9	1655.9	2074.1	2649.4	3325.4	4179.0	5474.7	7127.2	7748.6	7927.8
22.5°	1249.6	1357.2	1611.5	2159.5	2915.7	3940.0	5551.5	7719.5	8469.0	8767.7
25°	1131.8	1188.1	1331.5	1690.0	2524.8	3707.8	5727.3	8516.8	9476.2	9674.2
27.5°	1031.1	1072.1	1160.8	1418.6	2169.7	3492.7	5932.2	9401.0	10416.8	10712.1
30°	935.5	990.1	1073.8	1259.8	1942.7	3296.4	6190.0	10118.0	11208.9	11483.7
32.5°	862.1	916.7	993.5	1148.9	1749.8	3089.9	6343.6	10748.0	11855.9	12089.7
35°	802.3	848.4	928.7	1060.1	1603.0	2932.8	6312.9	11248.1	12482.4	12721.4
37.5°	759.7	798.9	879.2	976.5	1492.0	2768.9	6297.5	11908.8	13245.5	13522.0
40°	720.4	761.4	834.8	921.8	1381.1	2576.0	6306.1	12564.3	14058.0	14334.6
42.5°	689.7	735.8	795.5	906.5	1266.7	2420.7	6306.1	13134.5	14764.8	15031.1
45°	664.1	713.6	771.6	904.8	1176.2	2302.9	6263.4	13624.4	15328.1	15555.2
47.5°	641.9	696.5	780.1	874.0	1154.0	2217.5	6225.8	14017.1	15787.3	16000.7
50°	626.5	691.4	829.7	838.2	1160.8	2191.9	6406.8	14512.1	16191.9	16376.3
52.5°	614.6	693.1	827.9	785.3	1148.9	2209.0	6784.0	15285.4	16753.6	16767.2
55°	590.7	691.4	785.3	725.5	1099.4	2238.0	7268.9	16408.7	17632.7	17643.0
57.5°	566.8	672.6	728.9	674.3	998.7	2238.0	7852.7	17472.3	18692.8	18701.4
60°	542.9	699.9	640.2	629.9	867.2	2197.0	8469.0	17940.0	19025.7	19112.8
62.5°	519.0	705.0	571.9	590.7	771.6	2098.0	8928.2	17422.7	18575.0	18699.7
65°	491.6	568.5	527.5	549.7	722.1	1932.4	8783.1	16475.3	17728.3	17876.8
67.5°	459.2	481.4	479.7	507.0	705.0	1688.3	8018.3	15276.9	16816.7	16808.2
70°	419.9	431.9	437.0	466.0	672.6	1498.8	6681.6	13721.7	15599.6	15790.7
72.5°	379.0	389.2	394.3	419.9	640.2	1391.3	5186.2	11579.3	13511.8	13810.5
75°	334.6	341.4	348.3	370.4	606.0	1232.5	3694.2	8839.4	10348.5	10817.9
77.5°	288.5	288.5	297.0	319.2	510.4	1017.4	2478.7	6200.2	7011.1	7490.8
80°	233.9	235.6	232.2	256.1	375.6	696.5	1408.4	4141.4	4665.5	4757.7
82.5°	179.2	174.1	175.8	187.8	280.0	474.6	751.1	2572.6	2622.1	2570.9
85°	112.7	112.7	109.3	122.9	179.2	247.5	409.7	1575.7	1230.8	1171.1
87.5°	46.1	37.6	42.7	49.5	85.4	100.7	160.5	324.4	124.6	114.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)