

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: P459018

Luminaire Tested: **GALN-SA5B-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19064 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

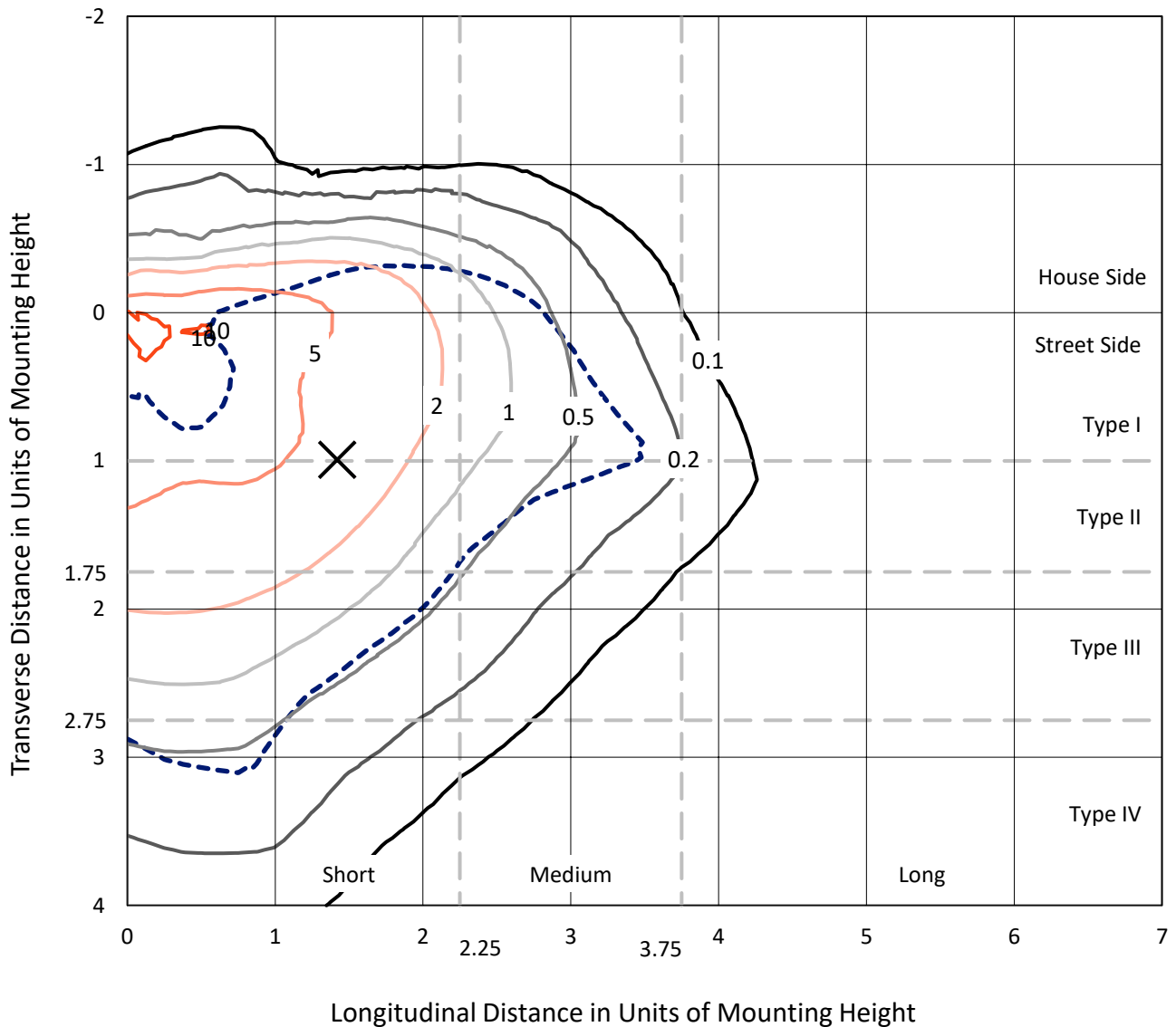
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

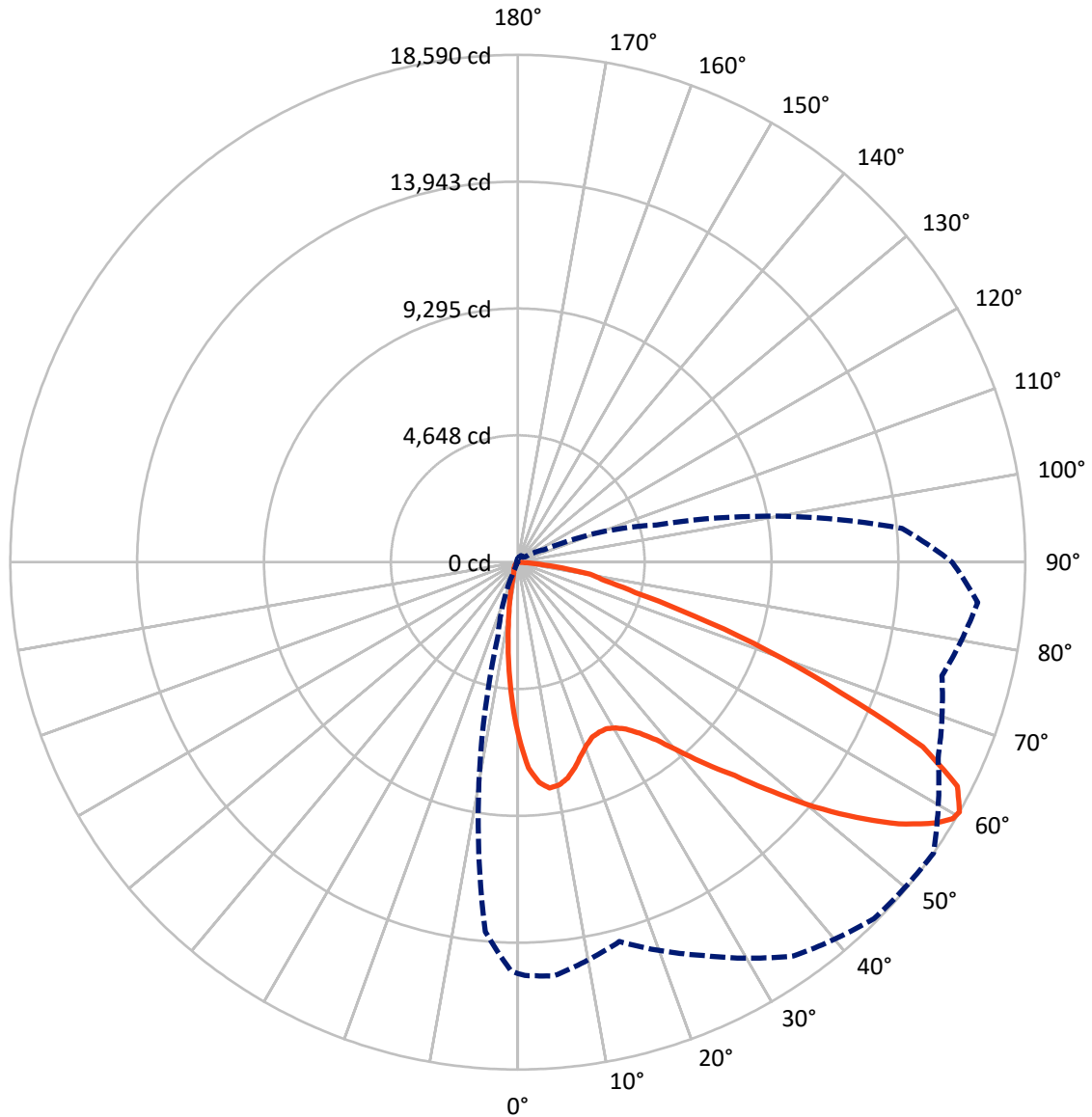
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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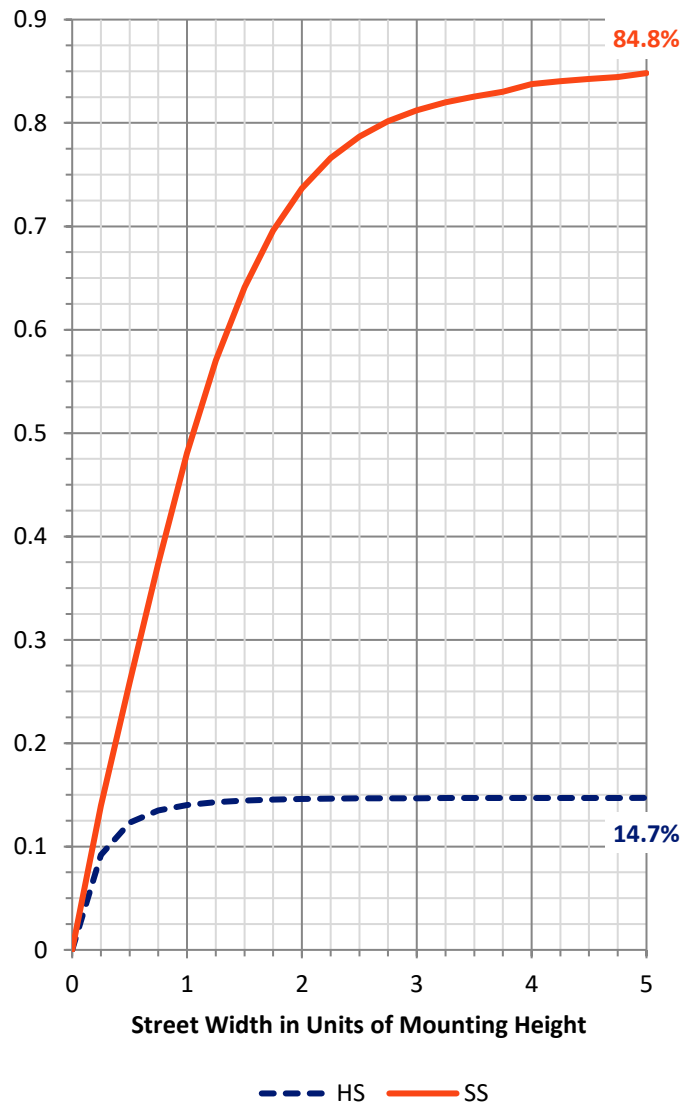
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2829.3	0.0	2829.3
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	16234.7	0.0	16234.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	19064.0	0.0	19064.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	2.5
10°-20°	941.3	4.9
20°-30°	1393.3	7.3
30°-40°	2076.9	10.9
40°-50°	3041.6	16.0
50°-60°	4391.1	23.0
60°-70°	4619.2	24.2
70°-80°	1900.2	10.0
80°-90°	222.5	1.2
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°	19064.0	100.0
0°-180°	19064.0	100.0



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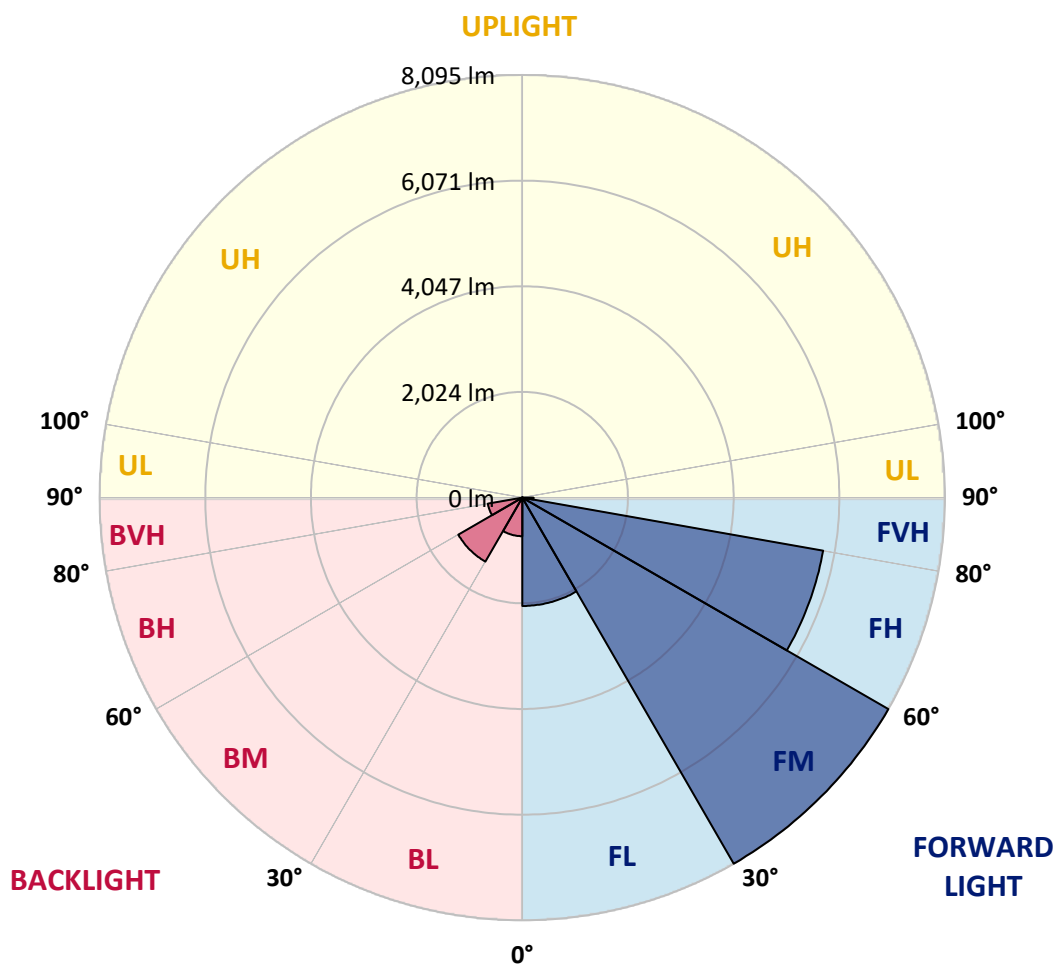
CATALOG NUMBER: GALN-SA5B-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2074.4	10.9			
FM	(30°-60°)	8094.6	42.5			
FH	(60°-80°)	5849.7	30.7			G3/7500
FVH	(80°-90°)	216.0	1.1			G2/225
BL	(0°-30°)	738.2	3.9	B2/1000		
BM	(30°-60°)	1414.9	7.4	B2/2500		
BH	(60°-80°)	669.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0
2.5°	7052.2	7040.5	7144.7	7314.9	7486.6	7576.1	7558.5	7551.2	7408.8	7304.6	7086.0
5°	7037.6	7097.7	7284.1	7744.8	8094.1	8262.8	8312.7	8102.9	7825.6	7423.5	6927.5
7.5°	6616.4	6691.3	6995.0	7715.5	8336.2	8703.0	8689.8	8353.8	7781.5	7159.4	6452.1
10°	6094.0	6182.1	6538.7	7413.2	8218.8	8703.0	8729.5	8303.9	7592.2	6794.0	6050.0
12.5°	5725.7	5829.9	6224.6	7131.5	7916.5	8393.4	8424.2	8116.1	7449.9	6653.1	5831.4
15°	5601.0	5699.3	6099.9	6989.1	7595.2	7852.0	7844.6	7812.3	7394.1	6686.9	5843.1
17.5°	5815.2	5895.9	6347.9	7053.7	7294.4	7267.9	7306.1	7461.6	7405.9	6970.1	6212.9
20°	6368.4	6450.6	6936.3	7251.8	7064.0	6896.7	6914.3	7174.0	7514.5	7502.7	6791.0
22.5°	7130.0	7269.4	7709.6	7636.3	7033.2	6666.3	6629.6	6967.1	7699.4	8116.1	7571.7
25°	8094.1	8235.0	8578.3	8249.6	7184.3	6612.0	6578.3	6904.0	7923.9	8714.8	8450.7
27.5°	8904.1	9011.2	9353.1	8846.9	7407.3	6635.5	6579.7	6912.8	8105.8	9224.0	9191.7
30°	9552.7	9631.9	9832.9	9125.7	7599.6	6738.2	6673.7	7042.0	8186.5	9472.0	9791.8
32.5°	10075.1	10208.6	10271.7	9423.5	7875.4	6931.9	6821.9	7290.0	8383.2	9778.6	10421.4
35°	10672.3	10826.4	10745.6	9708.2	8239.4	7234.2	7099.2	7692.0	8681.0	10061.8	11152.1
37.5°	11429.4	11607.0	11291.5	10007.6	8623.8	7689.1	7626.0	8257.0	9133.0	10466.8	11935.7
40°	12213.0	12315.7	11821.2	10371.5	9096.3	8350.9	8411.0	9096.3	9724.3	10952.5	12769.2
42.5°	12824.9	12921.8	12365.6	10676.7	9579.1	9135.9	9386.8	10108.8	10402.3	11450.0	13391.3
45°	13293.0	13375.2	12742.8	11009.8	10230.6	10273.1	10747.1	11152.1	11081.7	11753.7	13871.2
47.5°	13656.9	13727.4	13033.3	11367.8	11206.4	11664.2	12389.1	12560.8	11786.0	12082.4	14305.5
50°	13806.6	13827.1	13124.3	11824.2	12314.3	13436.8	14192.5	14088.3	12593.1	12447.8	14767.7
52.5°	14001.8	13997.4	13384.0	12258.5	13356.1	15021.6	15775.8	15539.6	13505.8	12995.1	15287.2
55°	14513.9	14519.8	13940.1	12874.8	14243.9	16301.2	17108.2	16936.5	14468.4	13919.6	15893.2
57.5°	15136.1	15158.1	14731.1	13595.3	15092.0	17228.5	18103.1	18037.1	15770.0	14948.2	16465.5
59°	15216.8	15260.8	15105.2	14103.0	15595.3	17513.2	18443.5	18508.1	16467.0	15626.2	16775.1
60°	15070.0	15143.4	15213.8	14390.6	15890.3	17615.9	18464.1	18590.3	16990.8	16086.9	16916.0
62.5°	14430.2	14546.2	14899.8	15275.5	16258.6	17296.0	17808.2	18072.3	17639.4	17297.5	16929.2
65°	13592.4	13652.5	14163.2	15432.5	15544.0	15802.2	15960.7	16299.7	16860.2	17764.1	16323.2
67.5°	12218.9	12396.5	13021.6	14521.2	13435.4	13130.1	13090.5	12753.0	14208.7	16651.9	14829.4
70°	10094.1	10173.4	10943.7	11904.9	10139.6	9670.1	9857.9	9731.7	11014.2	14334.9	11935.7
72.5°	7633.3	7812.3	8565.1	9489.6	6899.6	6290.7	6808.7	6761.7	8273.1	11520.4	8199.7
75°	5430.8	5546.7	6506.4	7426.4	4832.1	4094.0	4280.4	4455.0	5775.6	9096.3	4845.3
77.5°	3731.6	3831.3	4551.8	4911.3	3524.7	3376.4	3088.8	3257.6	3784.4	5397.0	2636.9
80°	2251.0	2246.6	2720.5	2808.6	2454.9	2851.1	2391.8	2685.3	2287.7	2309.7	1021.3
82.5°	1461.5	1446.8	1664.0	1813.7	1366.1	1436.6	964.1	1389.6	1490.9	644.2	322.8
85°	654.5	682.3	799.7	1055.0	598.7	318.4	196.6	427.0	635.4	324.3	0.0
87.5°	67.5	52.8	140.9	256.8	82.2	8.8	29.3	14.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0
2.5°	6984.7	6899.6	6645.8	6408.1	6204.1	5954.6	5793.2	5539.4	5385.3	5338.3	5345.7
5°	6704.5	6459.4	5976.7	5590.7	5160.8	4915.7	4543.0	4185.0	3991.3	3919.4	3887.1
7.5°	6117.5	5854.9	5272.3	4666.3	4205.5	3775.6	3498.2	3182.8	2967.0	2789.5	2758.7
10°	5681.7	5336.9	4614.9	3963.4	3599.5	3276.7	2999.3	2683.8	2430.0	2227.5	2171.7
12.5°	5420.5	5034.6	4229.0	3683.1	3338.3	3006.7	2645.7	2280.3	2020.6	1801.9	1700.7
15°	5373.6	4926.0	4120.4	3482.1	3056.6	2656.0	2176.1	1781.4	1514.3	1307.4	1244.3
17.5°	5656.8	5121.2	4104.3	3272.3	2688.2	2120.4	1621.5	1294.2	993.4	877.5	832.0
20°	6161.5	5466.0	4102.8	3028.7	2309.7	1633.2	1138.7	843.7	722.0	666.2	639.8
22.5°	6849.7	5935.6	4180.6	2818.8	1916.4	1204.7	812.9	672.1	601.6	556.1	545.9
25°	7690.6	6631.1	4371.3	2676.5	1615.6	945.0	670.6	575.2	516.5	496.0	487.2
27.5°	8437.5	7297.3	4581.2	2529.8	1399.9	836.4	622.2	526.8	479.8	463.7	450.5
30°	9081.6	7901.9	4682.4	2336.1	1226.7	766.0	631.0	563.5	501.8	453.4	431.4
32.5°	9618.7	8365.6	4748.5	2160.0	1080.0	626.6	498.9	435.8	407.9	390.3	375.7
35°	10290.8	8867.4	4708.8	2060.2	1005.2	570.8	454.9	375.7	328.7	293.5	278.8
37.5°	10995.1	9369.2	4639.9	1978.0	971.4	529.7	432.9	356.6	305.2	268.5	249.5
40°	11724.4	9834.4	4559.2	1901.7	940.6	503.3	419.7	340.4	289.1	249.5	228.9
42.5°	12392.0	10287.8	4526.9	1851.8	890.7	507.7	409.4	333.1	272.9	231.8	214.2
45°	12932.0	10717.8	4570.9	1825.4	836.4	500.4	412.3	324.3	259.7	220.1	202.5
47.5°	13508.7	11325.3	4713.2	1799.0	783.6	465.2	434.3	322.8	253.9	212.8	193.7
50°	14179.3	12103.0	5039.0	1734.4	719.0	427.0	462.2	321.4	246.5	204.0	184.9
52.5°	15073.0	12986.3	5375.0	1621.5	625.1	390.3	441.7	317.0	231.8	193.7	174.6
55°	15875.6	13916.7	5659.7	1487.9	506.2	337.5	397.7	297.9	206.9	176.1	158.5
57.5°	16207.2	14442.0	5650.9	1303.0	405.0	296.4	327.2	272.9	180.5	155.5	140.9
59°	16085.5	14376.0	5461.6	1166.6	369.8	274.4	271.5	270.0	168.7	140.9	129.1
60°	15913.8	14135.3	5257.6	1099.1	347.8	259.7	249.5	267.1	158.5	132.1	120.3
62.5°	15256.4	13137.5	4581.2	984.6	318.4	220.1	199.6	226.0	140.9	114.5	104.2
65°	14304.0	11604.1	3878.3	952.3	309.6	182.0	165.8	161.4	120.3	96.8	88.0
67.5°	12446.3	9819.7	3141.7	930.3	312.6	152.6	145.3	121.8	99.8	80.7	74.8
70°	9965.0	7656.8	2572.3	905.4	315.5	124.7	121.8	96.8	80.7	67.5	61.6
72.5°	6054.4	4538.6	2025.0	786.5	306.7	99.8	108.6	73.4	58.7	48.4	45.5
75°	3743.3	3106.4	1256.1	611.9	202.5	73.4	76.3	45.5	39.6	30.8	30.8
77.5°	2168.8	1961.9	449.0	220.1	89.5	44.0	33.7	23.5	22.0	13.2	13.2
80°	899.5	720.5	155.5	74.8	48.4	20.5	7.3	1.5	0.0	0.0	0.0
82.5°	262.7	233.3	42.6	33.7	14.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0
2.5°	5220.9	5172.5	5150.5	5225.4	5156.4	5244.4	5176.9	5206.3	5292.9	5331.0	5429.3
5°	3907.6	3857.7	3834.3	3947.3	3941.4	3997.2	3991.3	4042.6	4086.7	3988.3	4089.6
7.5°	2722.0	2688.2	2744.0	2832.0	2926.0	2895.1	2895.1	2826.2	2849.7	2835.0	2830.6
10°	2070.5	1954.6	1925.2	1922.3	1957.5	1964.8	1925.2	1829.8	1865.0	1875.3	1936.9
12.5°	1628.8	1539.3	1402.8	1341.2	1325.0	1338.3	1207.7	1124.0	1163.6	1140.2	1200.3
15°	1168.0	1094.7	1014.0	945.0	925.9	899.5	757.2	657.4	645.6	650.1	660.3
17.5°	833.5	783.6	783.6	710.2	670.6	591.4	519.5	475.4	471.0	475.4	482.8
20°	614.8	588.4	585.5	566.4	522.4	469.6	419.7	410.9	407.9	415.3	418.2
22.5°	529.7	501.8	478.4	476.9	435.8	391.8	368.3	356.6	358.0	361.0	368.3
25°	474.0	444.6	419.7	405.0	375.7	344.8	322.8	317.0	317.0	321.4	322.8
27.5°	434.3	397.7	375.7	355.1	328.7	302.3	283.2	278.8	275.9	278.8	286.1
30°	406.5	369.8	341.9	311.1	290.5	265.6	249.5	243.6	242.1	243.6	249.5
32.5°	347.8	325.8	303.7	275.9	250.9	234.8	217.2	206.9	206.9	209.8	215.7
35°	262.7	250.9	249.5	242.1	221.6	204.0	183.4	173.2	173.2	179.0	182.0
37.5°	231.8	209.8	206.9	204.0	195.2	171.7	152.6	143.8	142.3	146.7	152.6
40°	211.3	186.4	173.2	170.2	171.7	145.3	124.7	115.9	115.9	117.4	123.3
42.5°	195.2	165.8	142.3	139.4	145.3	121.8	101.2	92.4	92.4	92.4	99.8
45°	182.0	148.2	120.3	105.7	114.5	99.8	82.2	73.4	70.4	73.4	76.3
47.5°	173.2	135.0	105.7	85.1	85.1	79.2	66.0	55.8	52.8	54.3	58.7
50°	165.8	123.3	89.5	69.0	61.6	63.1	49.9	42.6	39.6	39.6	44.0
52.5°	154.1	111.5	77.8	58.7	47.0	42.6	36.7	30.8	29.3	30.8	33.7
55°	139.4	101.2	67.5	48.4	36.7	29.3	26.4	22.0	20.5	22.0	26.4
57.5°	123.3	85.1	54.3	38.2	24.9	19.1	17.6	14.7	11.7	13.2	16.1
59°	113.0	76.3	47.0	30.8	19.1	13.2	13.2	10.3	7.3	8.8	13.2
60°	108.6	70.4	39.6	26.4	16.1	10.3	10.3	7.3	4.4	5.9	10.3
62.5°	92.4	58.7	30.8	16.1	7.3	1.5	4.4	1.5	0.0	1.5	4.4
65°	77.8	47.0	20.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	64.6	35.2	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	51.4	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	35.2	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



REPORT NUMBER: P459018
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0
2.5°	5435.2	5645.0	5774.2	6017.7	6267.2	6459.4	6700.1	6915.8	7005.3	7052.2
5°	4192.3	4484.3	4732.3	5103.6	5448.4	5868.1	6293.6	6795.5	6987.7	7037.6
7.5°	2942.1	3240.0	3499.7	3929.7	4421.2	4983.2	5620.1	6256.9	6537.2	6616.4
10°	2124.8	2443.2	2760.1	3190.1	3649.4	4258.3	4921.6	5709.6	6032.4	6094.0
12.5°	1341.2	1683.1	2198.1	2729.3	3215.0	3705.1	4399.2	5256.2	5612.7	5725.7
15°	777.7	1033.0	1421.9	2114.5	2732.3	3380.9	4138.0	5085.9	5485.1	5601.0
17.5°	520.9	609.0	876.0	1405.8	2221.6	3081.5	4072.0	5225.4	5667.0	5815.2
20°	438.7	478.4	572.3	857.0	1711.0	2814.4	4089.6	5603.9	6183.6	6368.4
22.5°	385.9	422.6	482.8	616.3	1194.4	2482.8	4173.2	6145.4	6893.8	7130.0
25°	340.4	377.1	429.9	510.6	802.7	2099.8	4356.7	6937.8	7834.4	8094.1
27.5°	302.3	336.0	381.5	450.5	617.8	1672.8	4519.5	7709.6	8692.8	8904.1
30°	267.1	294.9	339.0	391.8	513.6	1289.8	4601.7	8384.6	9317.9	9552.7
32.5°	231.8	258.3	300.8	343.4	422.6	983.1	4544.5	8880.6	9925.4	10075.1
35°	198.1	226.0	261.2	300.8	365.4	793.9	4258.3	9438.2	10554.9	10672.3
37.5°	170.2	193.7	230.4	261.2	330.2	635.4	3912.0	9940.1	11260.7	11429.4
40°	143.8	167.3	204.0	231.8	303.7	500.4	3599.5	10497.7	12004.7	12213.0
42.5°	117.4	145.3	177.6	223.0	261.2	381.5	3220.9	10949.6	12563.7	12824.9
45°	93.9	124.7	159.9	221.6	227.4	290.5	2855.5	11301.8	13058.2	13293.0
47.5°	74.8	105.7	154.1	206.9	186.4	230.4	2647.2	11670.1	13469.1	13656.9
50°	60.2	88.0	161.4	182.0	155.5	195.2	2641.3	12081.0	13681.9	13806.6
52.5°	48.4	71.9	136.5	139.4	132.1	171.7	2799.8	12543.2	13899.1	14001.8
55°	41.1	60.2	89.5	102.7	118.9	155.5	2918.6	13254.9	14417.0	14513.9
57.5°	32.3	51.4	69.0	82.2	105.7	142.3	2934.8	13803.7	15073.0	15136.1
59°	27.9	44.0	61.6	73.4	96.8	133.5	2868.7	13837.4	15115.5	15216.8
60°	23.5	39.6	54.3	69.0	89.5	126.2	2796.8	13592.4	14957.0	15070.0
62.5°	17.6	30.8	39.6	55.8	73.4	108.6	2456.4	12736.9	14351.0	14430.2
65°	11.7	22.0	29.3	41.1	57.2	93.9	2001.5	11627.5	13414.8	13592.4
67.5°	7.3	16.1	23.5	30.8	47.0	79.2	1426.3	9970.9	12104.4	12218.9
70°	4.4	10.3	17.6	24.9	36.7	63.1	846.7	7881.3	10070.6	10094.1
72.5°	2.9	7.3	11.7	17.6	29.3	57.2	410.9	5137.3	7353.1	7633.3
75°	1.5	4.4	7.3	13.2	23.5	47.0	196.6	3432.2	5350.1	5430.8
77.5°	0.0	1.5	4.4	8.8	17.6	36.7	114.5	2253.9	3647.9	3731.6
80°	0.0	0.0	2.9	7.3	13.2	23.5	69.0	1329.4	2209.9	2251.0
82.5°	0.0	0.0	1.5	5.9	8.8	17.6	35.2	584.0	1446.8	1461.5
85°	0.0	0.0	1.5	5.9	7.3	11.7	13.2	79.2	642.7	654.5
87.5°	0.0	0.0	1.5	7.3	7.3	7.3	7.3	4.4	54.3	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)