

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: P454349

Luminaire Tested: **GALN-SA5C-722-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454349
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-SA5C-722-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 1050mA 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: 18587 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

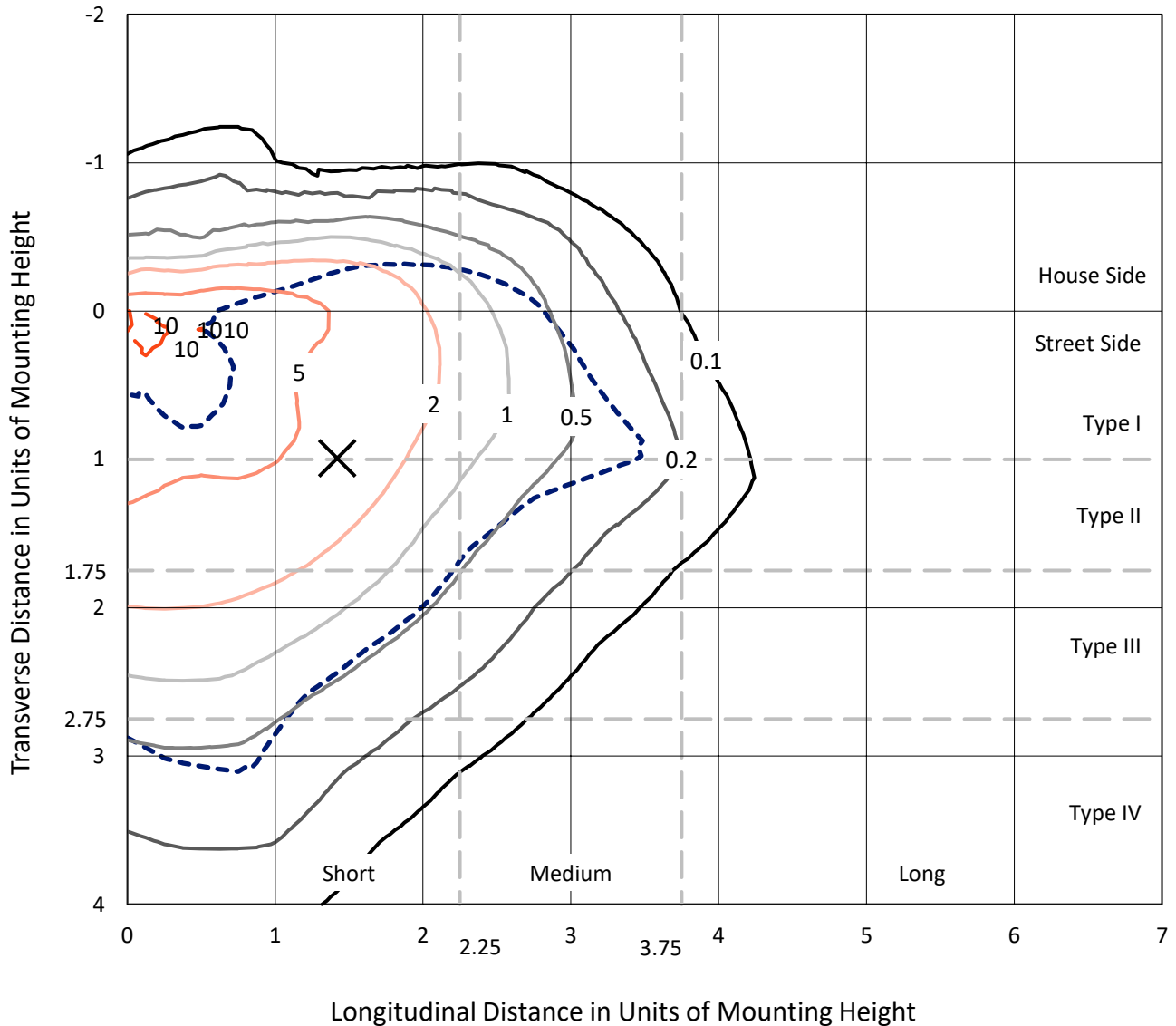
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

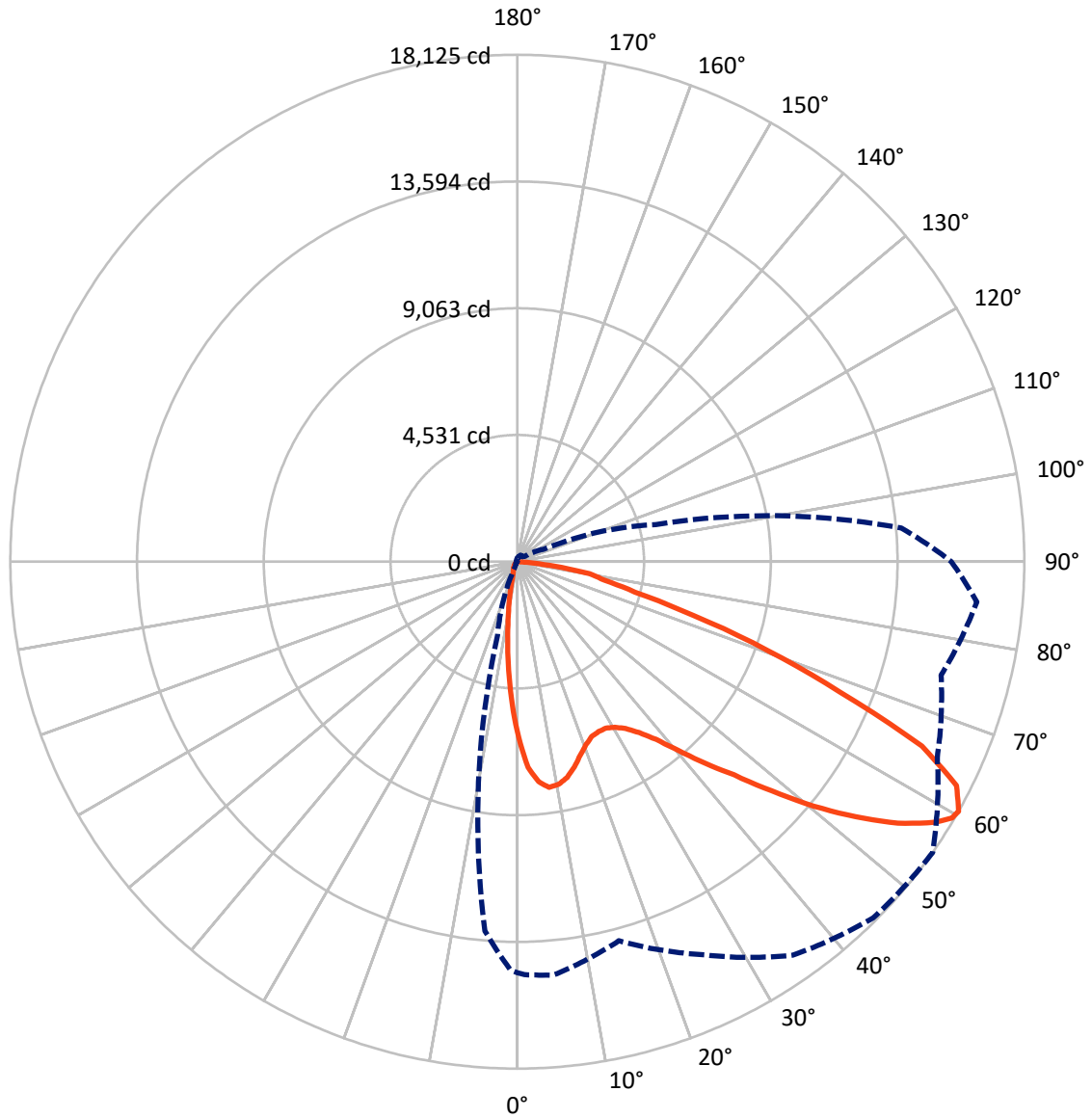
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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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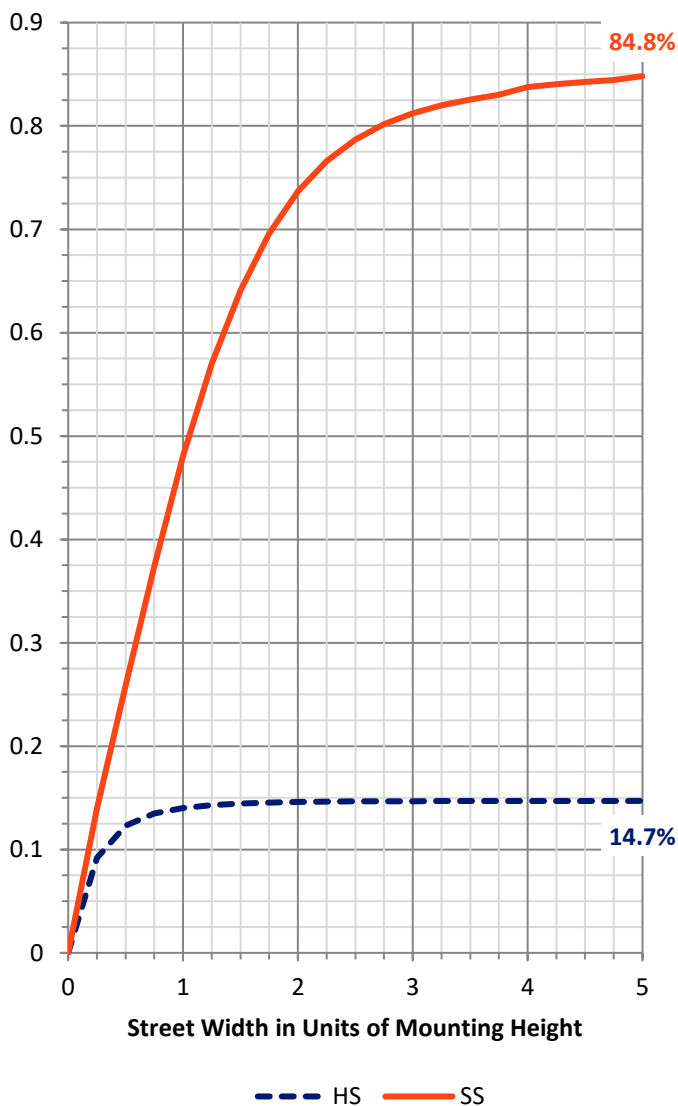
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2758.5	0.0	2758.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	15828.5	0.0	15828.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	18587.0	0.0	18587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	2.5
10°-20°	917.7	4.9
20°-30°	1358.4	7.3
30°-40°	2024.9	10.9
40°-50°	2965.5	16.0
50°-60°	4281.2	23.0
60°-70°	4503.6	24.2
70°-80°	1852.6	10.0
80°-90°	217.0	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°	18587.0	100.0
0°-180°	18587.0	100.0

Coefficient of Utilization



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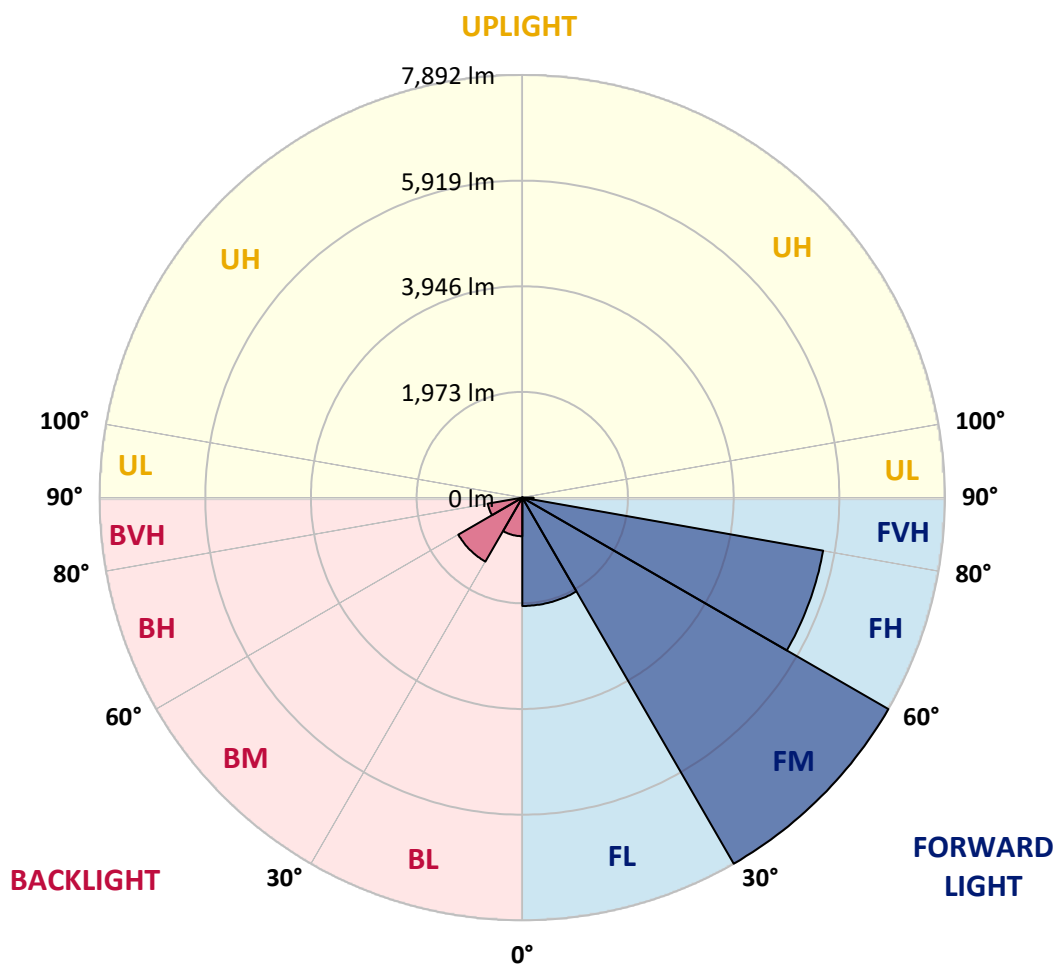
CATALOG NUMBER: GALN-SA5C-722-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2022.5	10.9			
FM	(30°-60°)	7892.1	42.5			
FH	(60°-80°)	5703.3	30.7			G3/7500
FVH	(80°-90°)	210.6	1.1			G2/225
BL	(0°-30°)	719.7	3.9	B2/1000		
BM	(30°-60°)	1379.5	7.4	B2/2500		
BH	(60°-80°)	652.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.4	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°	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5
2.5°	6875.8	6864.3	6965.9	7131.9	7299.3	7386.5	7369.4	7362.2	7223.4	7121.9	6908.7
5°	6861.5	6920.1	7101.8	7551.1	7891.6	8056.1	8104.7	7900.1	7629.8	7237.7	6754.2
7.5°	6450.9	6523.8	6820.0	7522.5	8127.6	8485.3	8472.4	8144.8	7586.8	6980.2	6290.6
10°	5941.6	6027.4	6375.1	7227.7	8013.2	8485.3	8511.0	8096.1	7402.3	6624.0	5898.6
12.5°	5582.5	5684.0	6068.9	6953.0	7718.5	8183.4	8213.5	7913.0	7263.5	6486.6	5685.5
15°	5460.9	5556.7	5947.3	6814.3	7405.1	7655.5	7648.3	7616.9	7209.1	6519.6	5696.9
17.5°	5669.7	5748.4	6189.1	6877.2	7111.8	7086.1	7123.3	7274.9	7220.6	6795.7	6057.4
20°	6209.1	6289.2	6762.8	7070.4	6887.2	6724.1	6741.3	6994.5	7326.4	7315.0	6621.1
22.5°	6951.6	7087.5	7516.7	7445.2	6857.2	6499.5	6463.8	6792.8	7506.7	7913.0	7382.2
25°	7891.6	8028.9	8363.7	8043.2	7004.5	6446.6	6413.7	6731.3	7725.6	8496.7	8239.2
27.5°	8681.3	8785.7	9119.1	8625.5	7222.0	6469.5	6415.1	6739.9	7903.0	8993.2	8961.7
30°	9313.6	9390.9	9586.9	8897.3	7409.4	6569.6	6506.7	6865.8	7981.7	9235.0	9546.8
32.5°	9823.0	9953.2	10014.7	9187.7	7678.4	6758.5	6651.2	7107.6	8173.4	9534.0	10160.6
35°	10405.2	10555.5	10476.8	9465.3	8033.2	7053.2	6921.6	7499.6	8463.8	9810.1	10873.1
37.5°	11143.5	11316.6	11009.0	9757.2	8408.0	7496.7	7435.2	8050.4	8904.5	10205.0	11637.1
40°	11907.4	12007.6	11525.5	10112.0	8868.7	8141.9	8200.6	8868.7	9481.0	10678.5	12449.7
42.5°	12504.0	12598.5	12056.2	10409.5	9339.4	8907.3	9152.0	9855.9	10142.0	11163.5	13056.3
45°	12960.4	13040.5	12423.9	10734.3	9974.6	10016.1	10478.2	10873.1	10804.4	11459.6	13524.1
47.5°	13315.2	13383.9	12707.2	11083.4	10926.0	11372.4	12079.1	12246.5	11491.1	11780.1	13947.6
50°	13461.2	13481.2	12795.9	11528.3	12006.2	13100.6	13837.4	13735.8	12278.0	12136.4	14398.2
52.5°	13651.4	13647.1	13049.1	11951.8	13021.9	14645.7	15381.1	15150.8	13167.9	12670.0	14904.7
55°	14150.7	14156.5	13591.3	12552.7	13887.5	15893.3	16680.2	16512.8	14106.4	13571.3	15495.6
57.5°	14757.3	14778.8	14362.5	13255.1	14714.4	16797.5	17650.1	17585.8	15375.4	14574.2	16053.5
59°	14836.0	14878.9	14727.3	13750.1	15205.1	17075.0	17982.1	18045.0	16055.0	15235.2	16355.4
60°	14693.0	14764.5	14833.2	14030.6	15492.7	17175.2	18002.1	18125.1	16565.7	15684.4	16492.7
62.5°	14069.2	14182.2	14527.0	14893.2	15851.8	16863.3	17362.6	17620.1	17198.1	16864.7	16505.6
65°	13252.3	13310.9	13808.8	15046.3	15155.1	15406.9	15561.4	15891.9	16438.4	17319.7	15914.7
67.5°	11913.2	12086.3	12695.7	14157.9	13099.2	12801.6	12763.0	12433.9	13853.2	16235.2	14458.3
70°	9841.6	9918.8	10669.9	11607.0	9885.9	9428.1	9611.2	9488.2	10738.6	13976.2	11637.1
72.5°	7442.3	7616.9	8350.8	9252.1	6727.0	6133.3	6638.3	6592.5	8066.1	11232.2	7994.6
75°	5294.9	5407.9	6343.6	7240.6	4711.2	3991.6	4173.3	4343.5	5631.1	8868.7	4724.1
77.5°	3638.2	3735.5	4437.9	4788.4	3436.5	3292.0	3011.6	3176.1	3689.7	5262.0	2570.9
80°	2194.6	2190.4	2652.5	2738.3	2393.5	2779.8	2332.0	2618.1	2230.4	2251.9	995.7
82.5°	1424.9	1410.6	1622.4	1768.3	1332.0	1400.6	939.9	1354.8	1453.6	628.1	314.7
85°	638.1	665.3	779.7	1028.7	583.7	310.5	191.7	416.3	619.5	316.2	0.0
87.5°	65.8	51.5	137.3	250.4	80.1	8.6	28.6	14.3	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°	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5
2.5°	6810.0	6727.0	6479.5	6247.7	6048.9	5805.6	5648.3	5400.8	5250.6	5204.8	5211.9
5°	6536.7	6297.8	5827.1	5450.8	5031.7	4792.7	4429.3	4080.3	3891.4	3821.3	3789.8
7.5°	5964.5	5708.4	5140.4	4549.5	4100.3	3681.1	3410.7	3103.1	2892.8	2719.7	2689.7
10°	5539.5	5203.3	4499.4	3864.2	3509.4	3194.7	2924.3	2616.7	2369.2	2171.8	2117.4
12.5°	5284.9	4908.6	4123.2	3591.0	3254.8	2931.4	2579.5	2223.3	1970.0	1756.9	1658.1
15°	5239.1	4802.8	4017.3	3395.0	2980.1	2589.5	2121.7	1736.8	1476.4	1274.7	1213.2
17.5°	5515.2	4993.0	4001.6	3190.4	2621.0	2067.3	1580.9	1261.8	968.6	855.5	811.2
20°	6007.4	5329.2	4000.1	2952.9	2251.9	1592.3	1110.2	822.6	703.9	649.5	623.8
22.5°	6678.4	5787.1	4076.0	2748.3	1868.5	1174.6	792.6	655.2	586.6	542.2	532.2
25°	7498.1	6465.2	4262.0	2609.5	1575.2	921.3	653.8	560.8	503.6	483.6	475.0
27.5°	8226.3	7114.7	4466.5	2466.5	1364.9	815.5	606.6	513.6	467.8	452.1	439.2
30°	8854.4	7704.1	4565.3	2277.6	1196.0	746.8	615.2	549.4	489.3	442.1	420.6
32.5°	9378.0	8156.2	4629.6	2105.9	1053.0	610.9	486.4	424.9	397.7	380.6	366.3
35°	10033.3	8645.5	4591.0	2008.7	980.0	556.5	443.5	366.3	320.5	286.1	271.8
37.5°	10720.0	9134.8	4523.8	1928.5	947.1	516.5	422.0	347.7	297.6	261.8	243.2
40°	11431.0	9588.3	4445.1	1854.1	917.1	490.7	409.2	331.9	281.8	243.2	223.2
42.5°	12082.0	10030.4	4413.6	1805.5	868.4	495.0	399.2	324.8	266.1	226.0	208.9
45°	12608.5	10449.6	4456.5	1779.8	815.5	487.9	402.0	316.2	253.2	214.6	197.4
47.5°	13170.7	11041.9	4595.3	1754.0	764.0	453.5	423.5	314.7	247.5	207.4	188.8
50°	13824.5	11800.1	4912.9	1691.0	701.0	416.3	450.7	313.3	240.4	198.9	180.3
52.5°	14695.8	12661.4	5240.5	1580.9	609.5	380.6	430.6	309.0	226.0	188.8	170.2
55°	15478.4	13568.5	5518.1	1450.7	493.6	329.1	387.7	290.4	201.7	171.7	154.5
57.5°	15801.7	14080.6	5509.5	1270.4	394.9	289.0	319.0	266.1	176.0	151.7	137.3
59°	15683.0	14016.3	5324.9	1137.4	360.5	267.5	264.7	263.2	164.5	137.3	125.9
60°	15515.6	13781.6	5126.1	1071.6	339.1	253.2	243.2	260.4	154.5	128.8	117.3
62.5°	14874.7	12808.8	4466.5	960.0	310.5	214.6	194.6	220.3	137.3	111.6	101.6
65°	13946.1	11313.7	3781.3	928.5	301.9	177.4	161.7	157.4	117.3	94.4	85.8
67.5°	12134.9	9574.0	3063.1	907.0	304.7	148.8	141.6	118.7	97.3	78.7	73.0
70°	9715.7	7465.2	2508.0	882.7	307.6	121.6	118.7	94.4	78.7	65.8	60.1
72.5°	5902.9	4425.1	1974.3	766.8	299.0	97.3	105.9	71.5	57.2	47.2	44.4
75°	3649.6	3028.7	1224.7	596.6	197.4	71.5	74.4	44.4	38.6	30.0	30.0
77.5°	2114.5	1912.8	437.8	214.6	87.3	42.9	32.9	22.9	21.5	12.9	12.9
80°	877.0	702.5	151.7	73.0	47.2	20.0	7.2	1.4	0.0	0.0	0.0
82.5°	256.1	227.5	41.5	32.9	14.3	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°	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5
2.5°	5090.3	5043.1	5021.6	5094.6	5027.4	5113.2	5047.4	5076.0	5160.4	5197.6	5293.5
5°	3809.9	3761.2	3738.3	3848.5	3842.8	3897.1	3891.4	3941.5	3984.4	3888.6	3987.3
7.5°	2653.9	2621.0	2675.3	2761.2	2852.8	2822.7	2822.7	2755.5	2778.4	2764.0	2759.8
10°	2018.7	1905.6	1877.0	1874.2	1908.5	1915.7	1877.0	1784.0	1818.4	1828.4	1888.5
12.5°	1588.0	1500.8	1367.7	1307.6	1291.9	1304.8	1177.4	1095.9	1134.5	1111.6	1170.3
15°	1138.8	1067.3	988.6	921.3	902.8	877.0	738.2	640.9	629.5	633.8	643.8
17.5°	812.6	764.0	764.0	692.4	653.8	576.6	506.5	463.5	459.2	463.5	470.7
20°	599.4	573.7	570.8	552.2	509.3	457.8	409.2	400.6	397.7	404.9	407.7
22.5°	516.5	489.3	466.4	465.0	424.9	382.0	359.1	347.7	349.1	351.9	359.1
25°	462.1	433.5	409.2	394.9	366.3	336.2	314.7	309.0	309.0	313.3	314.7
27.5°	423.5	387.7	366.3	346.2	320.5	294.7	276.1	271.8	269.0	271.8	279.0
30°	396.3	360.5	333.3	303.3	283.3	259.0	243.2	237.5	236.1	237.5	243.2
32.5°	339.1	317.6	296.1	269.0	244.6	228.9	211.7	201.7	201.7	204.6	210.3
35°	256.1	244.6	243.2	236.1	216.0	198.9	178.8	168.8	168.8	174.5	177.4
37.5°	226.0	204.6	201.7	198.9	190.3	167.4	148.8	140.2	138.8	143.1	148.8
40°	206.0	181.7	168.8	166.0	167.4	141.6	121.6	113.0	113.0	114.5	120.2
42.5°	190.3	161.7	138.8	135.9	141.6	118.7	98.7	90.1	90.1	90.1	97.3
45°	177.4	144.5	117.3	103.0	111.6	97.3	80.1	71.5	68.7	71.5	74.4
47.5°	168.8	131.6	103.0	83.0	83.0	77.3	64.4	54.4	51.5	52.9	57.2
50°	161.7	120.2	87.3	67.2	60.1	61.5	48.6	41.5	38.6	38.6	42.9
52.5°	150.2	108.7	75.8	57.2	45.8	41.5	35.8	30.0	28.6	30.0	32.9
55°	135.9	98.7	65.8	47.2	35.8	28.6	25.8	21.5	20.0	21.5	25.8
57.5°	120.2	83.0	52.9	37.2	24.3	18.6	17.2	14.3	11.4	12.9	15.7
59°	110.2	74.4	45.8	30.0	18.6	12.9	12.9	10.0	7.2	8.6	12.9
60°	105.9	68.7	38.6	25.8	15.7	10.0	10.0	7.2	4.3	5.7	10.0
62.5°	90.1	57.2	30.0	15.7	7.2	1.4	4.3	1.4	0.0	1.4	4.3
65°	75.8	45.8	20.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	62.9	34.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	50.1	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	34.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.6	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: P454349
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5	6293.5
2.5°	5299.2	5503.8	5629.7	5867.2	6110.4	6297.8	6532.4	6742.7	6830.0	6875.8
5°	4087.4	4372.1	4613.9	4975.9	5312.1	5721.2	6136.1	6625.4	6812.8	6861.5
7.5°	2868.5	3158.9	3412.1	3831.3	4310.6	4858.5	5479.5	6100.4	6373.6	6450.9
10°	2071.6	2382.1	2691.1	3110.3	3558.1	4151.8	4798.5	5566.7	5881.5	5941.6
12.5°	1307.6	1641.0	2143.1	2661.0	3134.6	3612.4	4289.1	5124.7	5472.3	5582.5
15°	758.3	1007.2	1386.3	2061.6	2663.9	3296.3	4034.5	4958.7	5347.8	5460.9
17.5°	507.9	593.7	854.1	1370.6	2166.0	3004.4	3970.1	5094.6	5525.2	5669.7
20°	427.8	466.4	558.0	835.5	1668.2	2744.0	3987.3	5463.7	6028.8	6209.1
22.5°	376.3	412.0	470.7	600.9	1164.6	2420.7	4068.8	5991.6	6721.3	6951.6
25°	331.9	367.7	419.2	497.9	782.6	2047.3	4247.7	6764.2	7638.3	7891.6
27.5°	294.7	327.6	372.0	439.2	602.3	1631.0	4406.5	7516.7	8475.3	8681.3
30°	260.4	287.6	330.5	382.0	500.7	1257.6	4486.6	8174.8	9084.7	9313.6
32.5°	226.0	251.8	293.3	334.8	412.0	958.5	4430.8	8658.4	9677.0	9823.0
35°	193.1	220.3	254.7	293.3	356.2	774.0	4151.8	9202.1	10290.8	10405.2
37.5°	166.0	188.8	224.6	254.7	321.9	619.5	3814.2	9691.3	10978.9	11143.5
40°	140.2	163.1	198.9	226.0	296.1	487.9	3509.4	10235.0	11704.3	11907.4
42.5°	114.5	141.6	173.1	217.5	254.7	372.0	3140.3	10675.6	12249.4	12504.0
45°	91.6	121.6	155.9	216.0	221.8	283.3	2784.1	11019.0	12731.5	12960.4
47.5°	73.0	103.0	150.2	201.7	181.7	224.6	2580.9	11378.1	13132.1	13315.2
50°	58.7	85.8	157.4	177.4	151.7	190.3	2575.2	11778.7	13339.5	13461.2
52.5°	47.2	70.1	133.1	135.9	128.8	167.4	2729.7	12229.3	13551.3	13651.4
55°	40.1	58.7	87.3	100.1	115.9	151.7	2845.6	12923.2	14056.3	14150.7
57.5°	31.5	50.1	67.2	80.1	103.0	138.8	2861.3	13458.3	14695.8	14757.3
59°	27.2	42.9	60.1	71.5	94.4	130.2	2797.0	13491.2	14737.3	14836.0
60°	22.9	38.6	52.9	67.2	87.3	123.0	2726.9	13252.3	14582.8	14693.0
62.5°	17.2	30.0	38.6	54.4	71.5	105.9	2394.9	12418.2	13991.9	14069.2
65°	11.4	21.5	28.6	40.1	55.8	91.6	1951.4	11336.6	13079.2	13252.3
67.5°	7.2	15.7	22.9	30.0	45.8	77.3	1390.6	9721.4	11801.6	11913.2
70°	4.3	10.0	17.2	24.3	35.8	61.5	825.5	7684.1	9818.7	9841.6
72.5°	2.9	7.2	11.4	17.2	28.6	55.8	400.6	5008.8	7169.1	7442.3
75°	1.4	4.3	7.2	12.9	22.9	45.8	191.7	3346.3	5216.2	5294.9
77.5°	0.0	1.4	4.3	8.6	17.2	35.8	111.6	2197.5	3556.6	3638.2
80°	0.0	0.0	2.9	7.2	12.9	22.9	67.2	1296.2	2154.6	2194.6
82.5°	0.0	0.0	1.4	5.7	8.6	17.2	34.3	569.4	1410.6	1424.9
85°	0.0	0.0	1.4	5.7	7.2	11.4	12.9	77.3	626.6	638.1
87.5°	0.0	0.0	1.4	7.2	7.2	7.2	7.2	4.3	52.9	65.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)