

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: P457193

Luminaire Tested: **GALN-SA8C-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37130 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

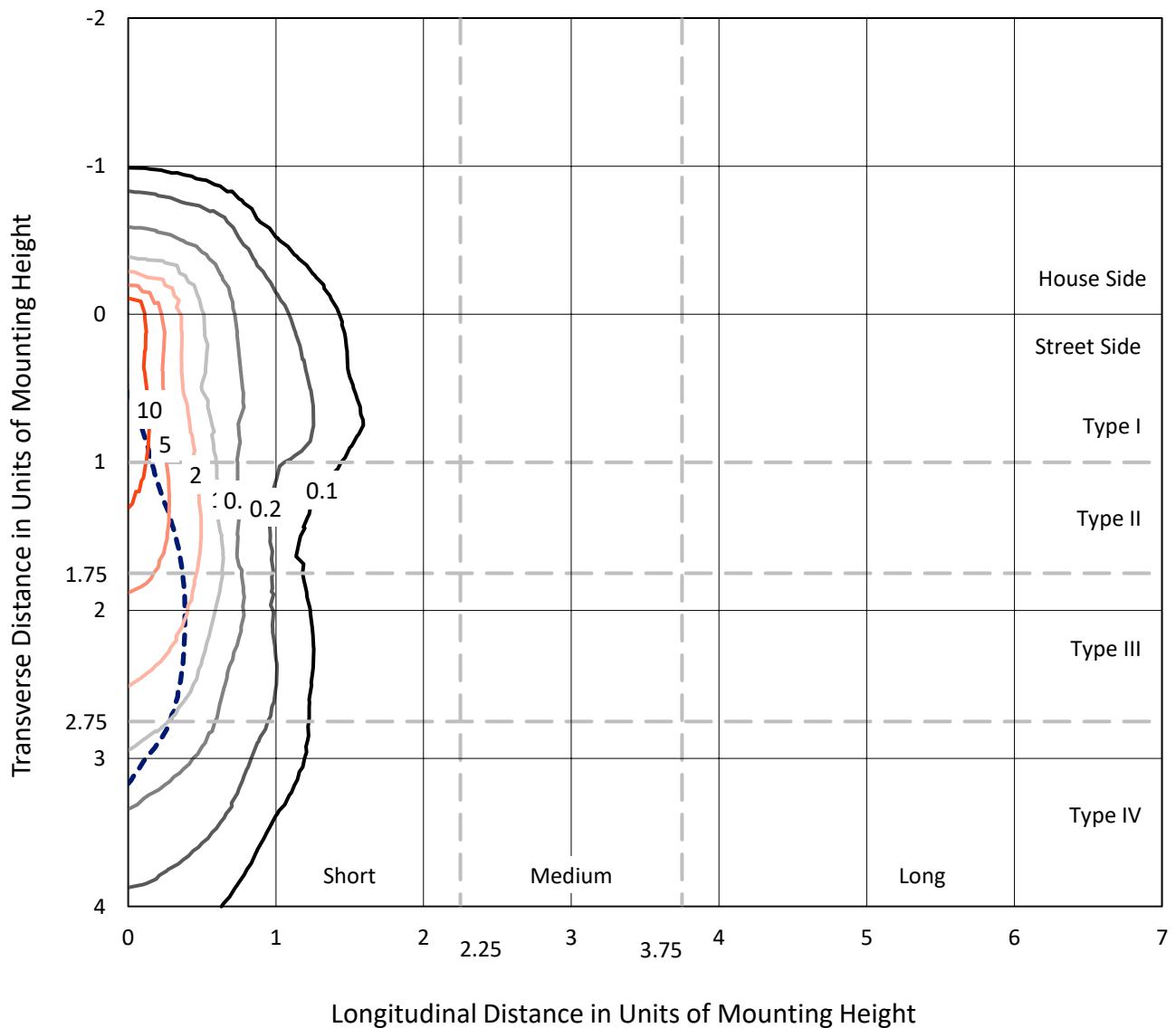
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

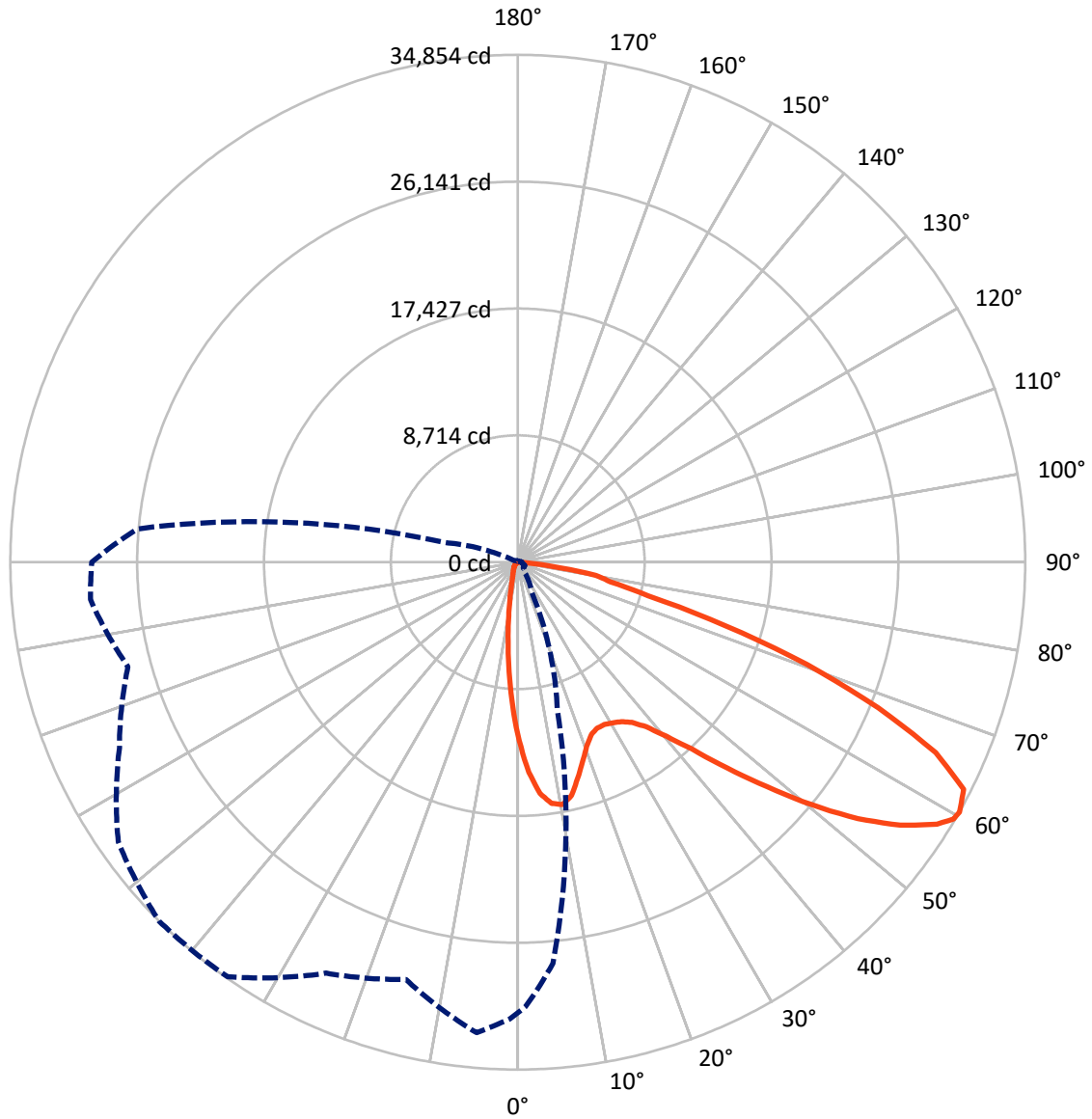
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4579.6	0.0	4579.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	32550.4	0.0	32550.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	37130.0	0.0	37130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.8	2.5
10°-20°	1812.7	4.9
20°-30°	2658.0	7.2
30°-40°	3952.8	10.6
40°-50°	5752.6	15.5
50°-60°	8295.7	22.3
60°-70°	9124.4	24.6
70°-80°	4087.0	11.0
80°-90°	534.0	1.4
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°	37130.0	100.0
0°-180°	37130.0	100.0

Coefficient of Utilization



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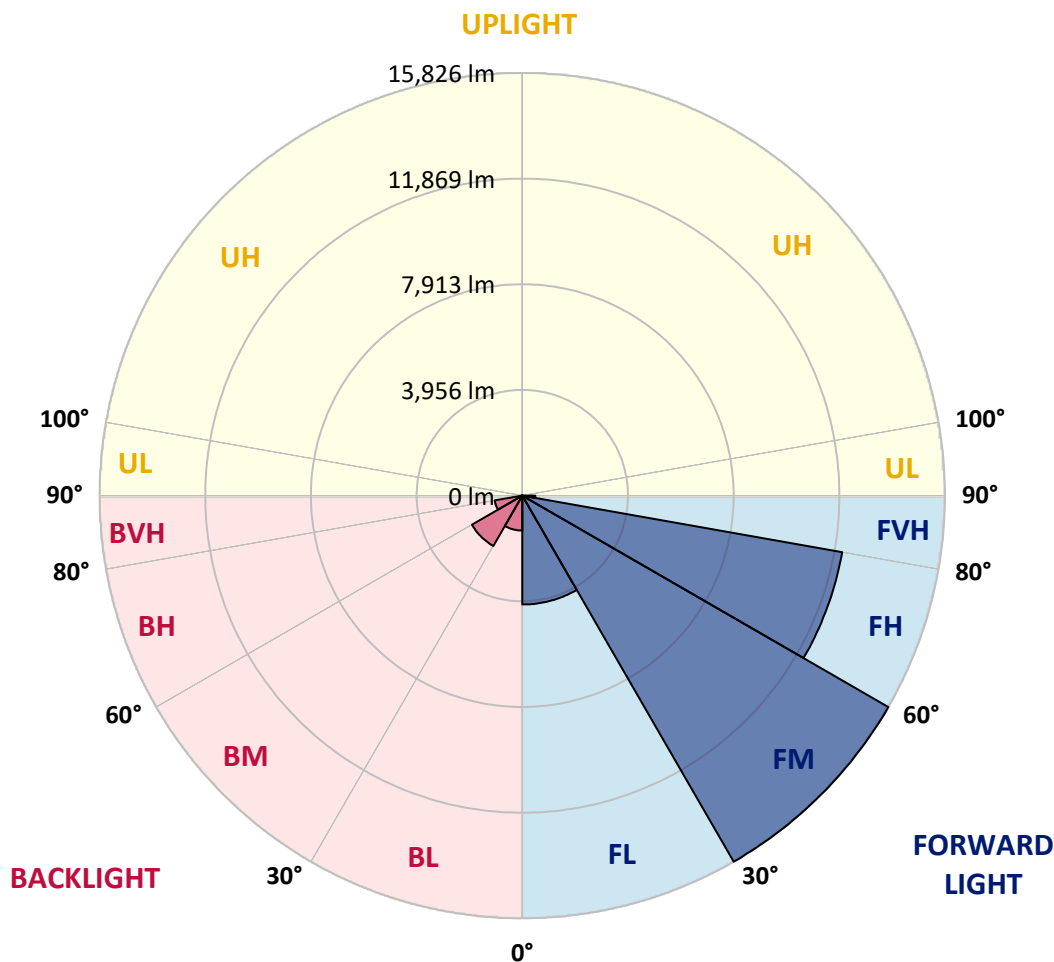
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4074.9	11.0			
FM	(30°-60°)	15825.9	42.6			
FH	(60°-80°)	12161.2	32.8			G5
FVH	(80°-90°)	488.4	1.3			G3/500
BL	(0°-30°)	1308.5	3.5	B3/2500		
BM	(30°-60°)	2175.2	5.9	B2/2500		
BH	(60°-80°)	1050.2	2.8	B3/2500		G3/2500
BVH	(80°-90°)	45.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0
2.5°	13491.3	13432.0	13296.5	12884.5	12526.0	12057.5	11583.3	11210.8	10982.1	10561.6	10369.7
5°	13070.7	13099.0	12706.7	11859.9	10917.2	10273.7	9570.9	9012.1	8396.8	8007.3	7598.0
7.5°	11972.8	11916.4	11490.2	10310.4	9164.5	8233.1	7344.0	6621.5	6167.0	5802.9	5498.1
10°	11032.9	10990.6	10445.9	8927.4	7696.8	6999.7	6398.5	5766.3	5278.0	4744.5	4318.3
12.5°	10443.1	10347.1	9720.5	8134.3	7132.3	6483.2	5828.4	5170.7	4496.2	3957.1	3440.6
15°	10245.5	10107.2	9410.0	7860.5	6771.0	5946.9	5125.6	4369.1	3593.0	2997.4	2607.9
17.5°	10603.9	10375.3	9633.0	7812.5	6339.2	5246.9	4236.5	3251.5	2444.2	1989.8	1749.9
20°	11425.3	11162.8	10197.5	7764.5	5859.4	4462.3	3220.4	2297.5	1690.6	1442.3	1309.6
22.5°	12644.6	12283.3	11032.9	7840.8	5416.3	3697.4	2325.7	1622.9	1343.5	1188.2	1095.1
25°	14109.4	13807.4	12091.4	8111.7	5066.3	3096.2	1797.9	1326.5	1131.8	1035.8	965.3
27.5°	15715.4	15232.7	13460.2	8436.3	4747.4	2630.5	1577.7	1185.4	1007.6	920.1	883.4
30°	16858.5	16483.1	14606.2	8662.1	4349.4	2280.5	1442.3	1168.5	1010.4	906.0	838.3
32.5°	17987.4	17507.6	15565.8	8766.5	4058.7	2037.8	1247.5	1018.9	886.2	832.6	764.9
35°	19195.5	18693.1	16522.6	8710.1	3841.3	1876.9	1131.8	908.8	759.2	668.9	601.2
37.5°	20417.6	19887.0	17473.8	8506.9	3705.9	1812.0	1041.5	863.7	716.9	623.8	550.4
40°	21868.3	21159.9	18365.7	8340.3	3564.7	1778.1	982.2	835.4	685.9	587.1	513.7
42.5°	23053.7	22379.2	19209.6	8252.8	3468.8	1699.1	982.2	812.9	666.1	556.0	479.8
45°	24177.1	23477.1	20121.2	8323.4	3429.3	1600.3	993.5	810.0	652.0	533.4	457.2
47.5°	25116.9	24510.1	21058.3	8588.7	3378.5	1493.1	934.2	849.6	643.5	513.7	434.7
50°	26226.2	25639.1	22297.3	9125.0	3288.1	1385.8	860.8	914.5	640.7	496.8	414.9
52.5°	27789.8	27154.8	24007.7	9734.6	3144.2	1222.1	793.1	906.0	629.4	468.5	395.1
55°	29700.6	29186.9	25989.1	10465.6	2946.6	1038.7	685.9	804.4	595.5	420.5	361.3
57.5°	30925.5	30488.1	27473.7	10781.7	2644.6	849.6	604.0	674.6	544.7	375.4	321.8
59°	31069.5	30674.3	27784.2	10677.3	2447.1	776.2	564.5	578.6	530.6	350.0	299.2
60°	30948.1	30538.9	27660.0	10474.1	2263.6	725.4	530.6	513.7	533.4	335.9	282.2
62.5°	30169.1	29469.2	26454.8	9443.9	1978.5	666.1	471.3	420.5	471.3	302.0	251.2
65°	28664.8	27614.8	24069.8	7993.2	1865.6	632.2	400.8	352.8	358.5	265.3	217.3
67.5°	26037.1	24713.3	20894.6	6494.4	1817.7	635.1	338.7	316.1	276.6	225.8	191.9
70°	21882.4	20561.5	16765.3	5342.9	1795.1	635.1	287.9	271.0	231.4	189.1	166.5
72.5°	15506.5	14084.0	11309.5	4197.0	1617.3	632.2	245.6	245.6	189.1	158.1	135.5
75°	8760.9	8772.2	7109.7	2969.2	1343.5	522.2	197.6	194.7	138.3	121.4	101.6
77.5°	5105.8	5015.5	4792.5	1275.7	623.8	237.1	138.3	118.5	96.0	87.5	73.4
80°	2624.9	2159.2	2102.7	462.9	223.0	149.6	96.0	67.7	62.1	56.4	50.8
82.5°	776.2	779.0	694.3	186.3	124.2	98.8	48.0	36.7	33.9	31.0	31.0
85°	53.6	33.9	39.5	56.4	76.2	39.5	2.8	8.5	8.5	11.3	14.1
87.5°	5.6	2.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0
2.5°	10158.0	10282.2	10050.7	10056.4	9864.4	9926.5	9700.7	9774.1	9641.5	9743.1	10042.3
5°	7643.2	7671.4	7485.1	7425.9	7454.1	7569.8	7615.0	7408.9	7496.4	7324.2	7313.0
7.5°	5385.2	5419.1	5311.8	5297.7	5500.9	5453.0	5540.5	5328.8	5128.4	5215.9	5055.0
10°	4182.9	4041.7	3821.6	3759.5	3720.0	3745.4	3745.4	3553.5	3525.2	3449.0	3564.7
12.5°	3302.3	3130.1	2921.2	2639.0	2568.4	2562.8	2458.4	2289.0	2235.4	2170.5	2266.4
15°	2399.1	2328.5	2153.5	1995.5	1834.6	1803.5	1634.2	1495.9	1312.4	1287.0	1278.6
17.5°	1687.8	1583.4	1580.6	1490.3	1397.1	1335.0	1177.0	1018.9	948.3	939.9	939.9
20°	1264.5	1227.8	1168.5	1157.2	1129.0	1058.4	917.3	832.6	798.8	801.6	812.9
22.5°	1064.1	1038.7	985.0	959.6	948.3	886.2	781.8	725.4	708.4	708.4	711.3
25°	951.2	928.6	869.3	829.8	815.7	770.5	688.7	646.3	632.2	632.2	632.2
27.5°	866.5	838.3	776.2	742.3	716.9	666.1	615.3	573.0	558.8	558.8	561.7
30°	807.2	776.2	719.7	674.6	635.1	589.9	547.6	510.9	493.9	491.1	493.9
32.5°	728.2	700.0	643.5	615.3	570.1	516.5	482.6	448.8	431.8	434.7	431.8
35°	567.3	558.8	519.3	527.8	502.4	457.2	426.2	389.5	369.7	366.9	372.6
37.5°	516.5	482.6	437.5	440.3	431.8	414.9	364.1	324.6	310.5	310.5	313.3
40°	477.0	443.1	392.3	366.9	369.7	369.7	316.1	273.8	259.7	256.8	262.5
42.5°	443.1	409.3	352.8	310.5	299.2	313.3	268.1	225.8	211.7	206.0	211.7
45°	420.5	383.9	318.9	271.0	237.1	254.0	220.2	186.3	169.3	169.3	166.5
47.5°	398.0	364.1	293.5	234.3	197.6	189.1	180.6	149.6	132.7	129.8	132.7
50°	378.2	344.3	265.3	203.2	166.5	146.8	146.8	118.5	107.3	101.6	104.4
52.5°	358.5	321.8	239.9	180.6	143.9	118.5	104.4	96.0	87.5	84.7	87.5
55°	330.2	293.5	214.5	155.2	124.2	98.8	81.9	79.0	73.4	67.7	73.4
57.5°	296.4	262.5	189.1	132.7	98.8	76.2	67.7	64.9	59.3	56.4	56.4
59°	276.6	245.6	175.0	115.7	87.5	67.7	62.1	59.3	53.6	48.0	50.8
60°	265.3	239.9	166.5	107.3	79.0	62.1	56.4	53.6	48.0	45.2	48.0
62.5°	234.3	214.5	146.8	87.5	62.1	45.2	39.5	42.3	39.5	36.7	39.5
65°	206.0	189.1	124.2	67.7	48.0	31.0	28.2	36.7	33.9	31.0	33.9
67.5°	183.5	163.7	104.4	50.8	33.9	16.9	19.8	31.0	31.0	28.2	31.0
70°	158.1	141.1	84.7	36.7	16.9	8.5	14.1	22.6	28.2	25.4	28.2
72.5°	129.8	110.1	64.9	25.4	8.5	0.0	8.5	19.8	28.2	25.4	28.2
75°	101.6	81.9	48.0	14.1	0.0	0.0	2.8	16.9	28.2	25.4	28.2
77.5°	73.4	59.3	28.2	2.8	0.0	0.0	2.8	16.9	28.2	25.4	28.2
80°	48.0	42.3	11.3	0.0	0.0	0.0	2.8	16.9	28.2	28.2	31.0
82.5°	31.0	22.6	0.0	0.0	0.0	0.0	5.6	22.6	31.0	33.9	33.9
85°	14.1	0.0	0.0	0.0	0.0	0.0	11.3	28.2	36.7	36.7	36.7
87.5°	0.0	0.0	0.0	0.0	0.0	5.6	19.8	33.9	42.3	42.3	42.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0
2.5°	10093.1	10270.9	10522.1	10908.8	11222.0	11716.0	12094.2	12610.7	13132.8	13290.9	13536.5
5°	7428.7	7657.3	8227.4	8746.8	9074.2	10118.5	10778.9	11820.4	12754.6	13203.4	13691.7
7.5°	5159.4	5430.4	5865.0	6590.4	7279.1	8128.6	9195.5	10386.6	11755.5	12396.2	13084.9
10°	3621.2	3959.9	4572.4	5167.9	6034.4	6841.6	7894.4	9209.6	10719.7	11476.1	12339.7
12.5°	2286.2	2588.2	3398.2	4067.1	5148.1	6085.2	7056.1	8247.2	9997.1	10773.3	11679.3
15°	1306.8	1560.8	1939.0	2797.0	3996.6	5235.6	6446.5	7829.5	9627.4	10584.2	11563.6
17.5°	973.7	1041.5	1210.8	1696.3	2788.6	4236.5	5884.8	7702.5	9878.6	11001.9	12119.6
20°	818.5	863.7	942.7	1134.6	1778.1	3262.7	5337.2	7725.0	10691.4	12102.6	13163.9
22.5°	733.8	762.1	827.0	951.2	1213.7	2376.5	4696.6	7857.7	11676.5	13454.6	14679.5
25°	643.5	680.2	736.7	843.9	1010.4	1648.3	4064.3	8154.0	13056.6	15170.6	16322.2
27.5°	573.0	606.8	663.3	762.1	886.2	1258.8	3327.7	8408.1	14513.0	16898.0	17840.7
30°	502.4	536.3	592.7	671.7	784.6	1018.9	2534.6	8557.7	15927.1	18193.5	18918.9
32.5°	443.1	471.3	525.0	595.5	688.7	863.7	1998.3	8402.4	17008.1	19370.4	19855.9
35°	383.9	417.7	462.9	527.8	609.6	736.7	1662.4	7866.2	17936.6	20581.3	20756.3
37.5°	321.8	361.3	409.3	468.5	533.4	677.4	1335.0	7273.4	18930.1	22091.3	21803.4
40°	271.0	307.6	352.8	417.7	477.0	620.9	1027.4	6641.2	20002.7	23508.2	22946.5
42.5°	220.2	259.7	313.3	372.6	471.3	541.9	795.9	5986.4	20965.1	24741.6	23979.5
45°	175.0	208.9	265.3	341.5	468.5	465.7	615.3	5340.1	21690.5	25622.2	24750.0
47.5°	138.3	166.5	223.0	333.0	431.8	395.1	493.9	4939.3	22452.6	26415.3	25339.9
50°	110.1	138.3	191.9	347.2	378.2	338.7	414.9	5004.2	23189.2	26818.9	25582.7
52.5°	93.1	121.4	166.5	273.8	290.7	296.4	364.1	5303.4	24140.4	27250.7	26065.3
55°	81.9	107.3	141.1	191.9	225.8	265.3	333.0	5520.7	25413.3	28176.5	27129.4
57.5°	64.9	93.1	127.0	163.7	186.3	231.4	307.6	5537.6	26564.9	29364.7	28543.4
59°	59.3	84.7	118.5	155.2	166.5	208.9	290.7	5393.7	26607.2	29542.5	29192.6
60°	53.6	81.9	112.9	143.9	158.1	197.6	276.6	5227.2	26223.3	29260.3	29460.7
62.5°	45.2	70.6	98.8	115.7	135.5	163.7	239.9	4623.2	24363.4	27981.7	28963.9
65°	39.5	62.1	84.7	96.0	112.9	141.1	211.7	3700.2	22308.6	26248.7	27541.4
67.5°	36.7	56.4	73.4	81.9	98.8	129.8	189.1	2613.6	19647.0	24050.1	25404.8
70°	33.9	53.6	64.9	76.2	87.5	110.1	160.9	1524.1	15134.0	20194.6	21625.6
72.5°	33.9	50.8	56.4	64.9	76.2	98.8	149.6	824.2	10347.1	15404.9	17253.6
75°	33.9	48.0	50.8	56.4	67.7	90.3	132.7	431.8	6689.2	10702.7	13209.0
77.5°	33.9	45.2	50.8	53.6	64.9	79.0	115.7	271.0	4456.6	7496.4	8927.4
80°	36.7	45.2	48.0	53.6	62.1	73.4	96.0	180.6	2619.2	4510.3	5433.2
82.5°	39.5	45.2	50.8	56.4	64.9	70.6	84.7	112.9	1208.0	2983.3	3375.6
85°	42.3	48.0	53.6	59.3	67.7	70.6	79.0	81.9	197.6	1346.3	1820.5
87.5°	45.2	50.8	56.4	62.1	73.4	73.4	73.4	73.4	67.7	143.9	366.9
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: P457193

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0	12272.0
2.5°	13846.9	14165.9	14388.8	14445.3	14284.4	14211.0	14007.8	13691.7	13499.8	13491.3
5°	14592.0	15340.0	15859.3	15946.8	15636.4	15111.4	14487.6	13683.2	13211.9	13070.7
7.5°	14465.0	15774.7	16610.1	16731.5	16209.3	15207.3	13999.3	12703.8	12190.1	11972.8
10°	13942.9	15540.4	16734.3	16926.2	16229.1	14817.8	13282.4	11837.3	11199.5	11032.9
12.5°	13496.9	15111.4	16172.6	16437.9	15910.1	14501.7	12853.4	11281.3	10598.3	10443.1
15°	13302.2	14603.3	15252.5	15388.0	15300.5	14304.2	12808.3	11196.6	10414.8	10245.5
17.5°	13496.9	14171.5	14253.4	14391.7	14586.4	14284.4	13242.9	11656.7	10812.8	10603.9
20°	14007.8	13796.1	13457.4	13516.7	13962.6	14366.3	14016.3	12675.6	11648.2	11425.3
22.5°	14877.1	13703.0	12935.3	12884.5	13449.0	14640.0	15150.9	14055.8	12864.7	12644.6
25°	15944.0	13937.2	12743.3	12633.3	13248.6	15040.8	16384.3	15746.4	14445.3	14109.4
27.5°	17106.8	14422.7	12743.3	12636.1	13231.6	15396.4	17439.9	17242.3	16082.3	15715.4
30°	17744.7	14823.5	12926.8	12805.4	13440.5	15602.5	18004.4	18571.7	17312.9	16858.5
32.5°	18314.9	15379.5	13285.3	13056.6	13878.0	15907.3	18509.6	19700.7	18292.3	17987.4
35°	18839.8	15975.0	13779.2	13513.9	14453.7	16325.0	19068.4	20886.1	19655.5	19195.5
37.5°	19418.4	16666.5	14549.7	14323.9	15416.2	17137.9	19731.7	22444.1	20996.2	20417.6
40°	20047.8	17468.1	15817.0	15721.0	16946.0	18058.0	20570.0	24106.5	22525.9	21868.3
42.5°	20688.5	18391.1	17369.3	17527.4	18678.9	19347.9	21430.8	25385.1	23779.1	23053.7
45°	21270.0	19570.8	19387.4	20169.2	20699.8	20606.7	22068.7	26285.4	24871.4	24177.1
47.5°	22003.8	21289.7	21828.8	23034.0	23048.1	21975.6	22551.3	27022.1	25811.3	25116.9
50°	22825.1	23319.0	24981.5	26209.2	25879.0	23321.9	23115.8	27894.2	26782.2	26226.2
52.5°	23776.3	25591.1	27894.2	29257.5	28486.9	24789.5	24055.7	28836.9	28323.2	27789.8
55°	24882.7	27140.6	30798.5	31885.2	31109.0	26612.8	25483.9	30115.5	30064.7	29700.6
57.5°	26133.0	28777.7	32480.7	33951.2	33259.7	28752.3	27479.3	31320.7	31128.8	30925.5
59°	27120.9	29618.7	33223.0	34747.1	34329.4	30251.0	28820.0	32071.5	31374.3	31069.5
60°	27719.2	30188.9	33496.8	34854.4	34758.4	31142.9	29669.6	32438.4	31371.5	30948.1
62.5°	29494.6	31185.2	33392.4	34377.4	34752.8	32853.3	32161.8	32842.0	30790.1	30169.1
65°	30126.8	30855.0	31662.2	31540.8	31862.6	32765.8	33753.6	32398.9	29548.2	28664.8
67.5°	28896.2	27233.8	27518.8	26708.8	26550.8	29130.5	33107.3	30231.2	27118.1	26037.1
70°	24357.7	20863.5	20719.6	21092.1	20070.4	23584.4	29728.8	26056.8	23107.4	21882.4
72.5°	19172.9	14744.5	13530.8	14902.5	14871.5	17993.1	24696.4	18489.8	15610.9	15506.5
75°	15077.5	10265.2	9009.2	9232.2	9661.2	13025.6	19669.6	11741.4	9613.3	8760.9
77.5°	10121.3	7273.4	6785.2	6511.4	6974.3	8362.9	12444.2	6367.4	5390.9	5105.8
80°	5834.0	5283.6	6000.5	5447.3	5695.7	5269.5	6189.6	2921.2	2424.5	2624.9
82.5°	3796.2	3008.7	3206.3	2382.1	3257.1	3285.3	1987.0	863.7	731.0	776.2
85°	2373.7	1411.2	793.1	564.5	1123.3	2066.0	620.9	53.6	62.1	53.6
87.5°	615.3	234.3	98.8	146.8	180.6	160.9	143.9	8.5	2.8	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)