

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: P459511

Luminaire Tested: **GALN-SA9C-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459511
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-SA9C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 42638 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

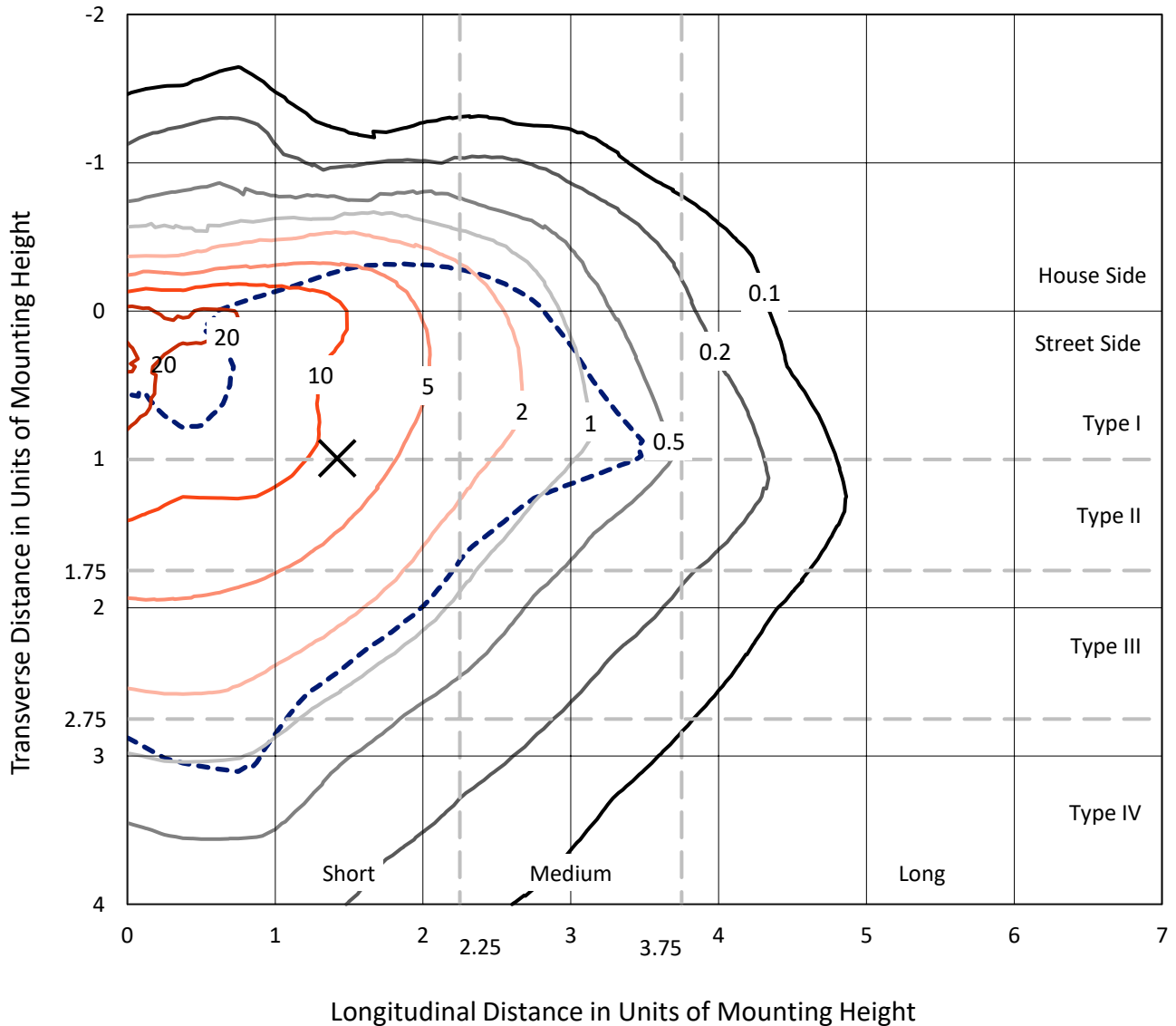
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

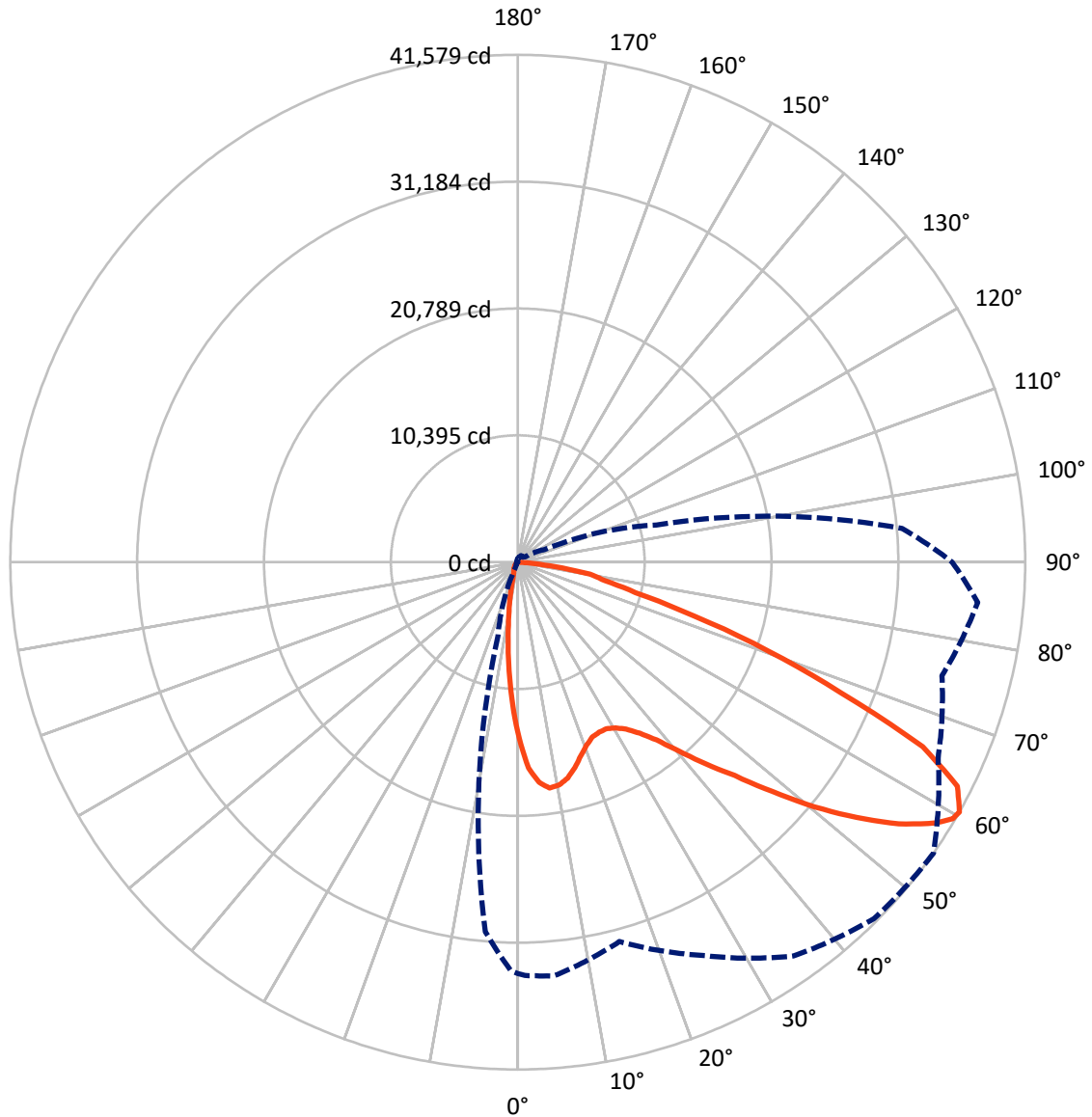
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.8 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	6327.8	0.0	6327.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	36310.2	0.0	36310.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	42638.0	0.0	42638.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1069.1	2.5
10°-20°	2105.3	4.9
20°-30°	3116.2	7.3
30°-40°	4645.0	10.9
40°-50°	6802.7	16.0
50°-60°	9820.9	23.0
60°-70°	10331.1	24.2
70°-80°	4249.9	10.0
80°-90°	497.7	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°	42638.0	100.0
0°-180°	42638.0	100.0

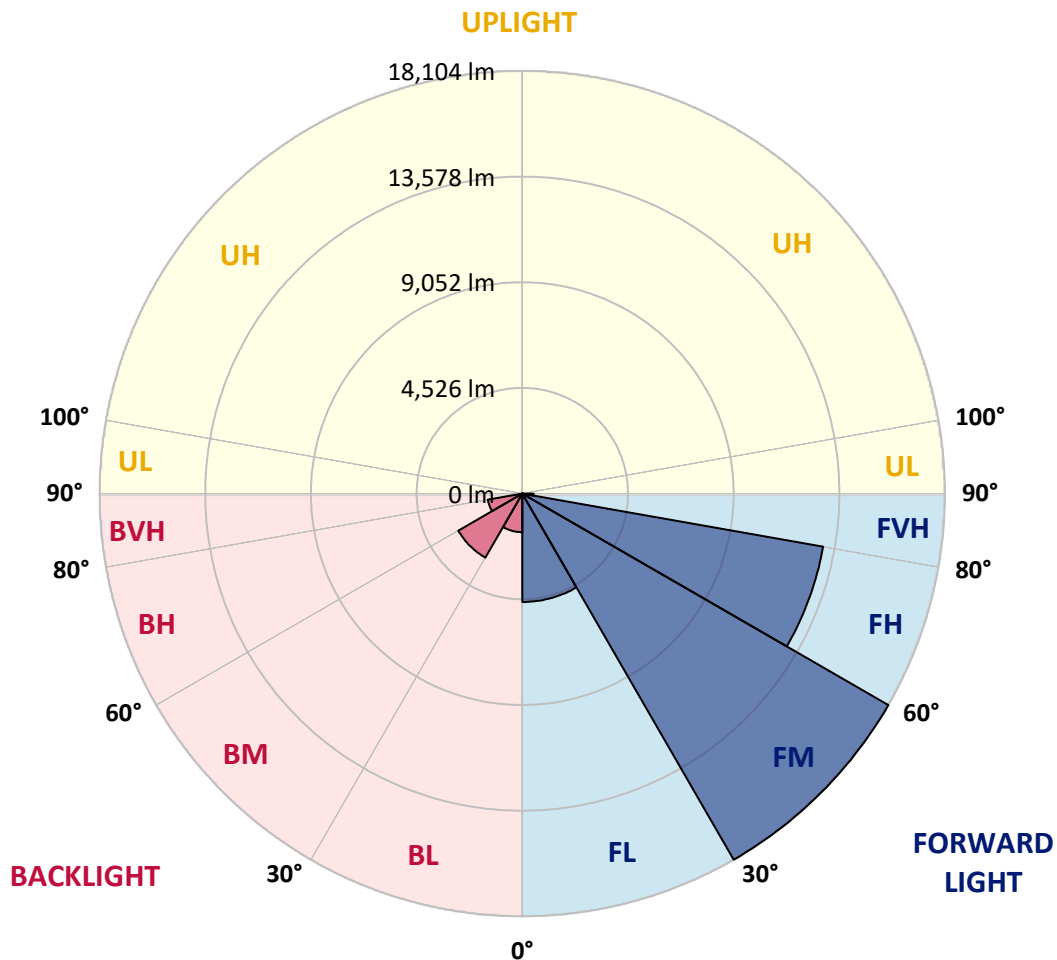


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4639.6	10.9			
FM	(30°-60°)	18104.2	42.5			
FH	(60°-80°)	13083.3	30.7			G5
FVH	(80°-90°)	483.1	1.1			G3/500
BL	(0°-30°)	1651.0	3.9	B3/2500		
BM	(30°-60°)	3164.5	7.4	B3/5000		
BH	(60°-80°)	1497.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	14.6	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1
2.5°	15772.8	15746.6	15979.6	16360.3	16744.3	16944.5	16905.1	16888.7	16570.3	16337.3	15848.3
5°	15740.0	15874.6	16291.4	17321.9	18103.0	18480.4	18592.0	18122.7	17502.4	16603.2	15493.9
7.5°	14798.1	14965.5	15644.9	17256.3	18644.5	19465.0	19435.5	18683.9	17404.0	16012.4	14430.5
10°	13629.8	13826.7	14624.2	16580.2	18382.0	19465.0	19524.1	18572.3	16980.6	15195.2	13531.3
12.5°	12806.0	13039.0	13921.8	15950.1	17705.9	18772.5	18841.4	18152.2	16662.2	14880.2	13042.3
15°	12527.0	12746.9	13642.9	15631.7	16987.2	17561.5	17545.1	17472.9	16537.5	14955.7	13068.6
17.5°	13006.2	13186.7	14197.5	15776.1	16314.4	16255.3	16340.6	16688.5	16563.8	15589.1	13895.6
20°	14243.5	14427.3	15513.6	16219.2	15799.1	15425.0	15464.3	16045.2	16806.6	16780.4	15188.7
22.5°	15946.8	16258.6	17243.1	17079.0	15730.2	14909.7	14827.7	15582.5	17220.2	18152.2	16934.6
25°	18103.0	18418.1	19186.0	18450.9	16068.2	14788.3	14712.8	15441.4	17722.3	19491.2	18900.5
27.5°	19914.6	20154.2	20918.9	19786.6	16567.1	14840.8	14716.1	15461.1	18129.3	20630.1	20557.9
30°	21365.2	21542.4	21992.1	20410.2	16997.0	15070.5	14926.1	15749.9	18309.8	21184.7	21900.2
32.5°	22533.6	22832.2	22973.3	21076.4	17614.0	15503.7	15257.6	16304.5	18749.5	21870.6	23308.1
35°	23869.3	24213.9	24033.4	21713.1	18427.9	16179.8	15877.9	17203.8	19415.8	22504.0	24942.5
37.5°	25562.8	25959.9	25254.3	22382.6	19287.8	17197.2	17056.1	18467.3	20426.6	23409.8	26695.0
40°	27315.3	27545.0	26439.0	23196.5	20344.5	18677.3	18811.9	20344.5	21749.2	24496.2	28559.2
42.5°	28683.9	28900.5	27656.6	23879.2	21424.3	20433.2	20994.4	22609.1	23265.4	25608.7	29950.7
45°	29730.8	29914.6	28500.1	24624.1	22881.5	22976.6	24036.7	24942.5	24785.0	26288.1	31023.9
47.5°	30544.7	30702.2	29149.9	25424.9	25063.9	26087.9	27709.1	28093.1	26360.3	27023.2	31995.3
50°	30879.5	30925.4	29353.4	26445.6	27541.8	30052.4	31742.6	31509.6	28165.3	27840.4	33029.1
52.5°	31316.0	31306.1	29934.3	27417.1	29871.9	33596.9	35283.8	34755.4	30206.7	29064.6	34190.9
55°	32461.3	32474.5	31178.1	28795.5	31857.5	36458.7	38263.8	37879.8	32359.6	31132.2	35546.3
57.5°	33852.9	33902.1	32947.1	30406.9	33754.4	38532.9	40488.9	40341.2	35270.7	33432.8	36826.3
59°	34033.4	34131.8	33784.0	31542.4	34880.1	39169.6	41250.3	41394.7	36829.6	34949.0	37518.8
60°	33705.2	33869.3	34026.8	32185.7	35539.8	39399.3	41296.2	41578.5	38001.2	35979.5	37833.8
62.5°	32274.3	32533.5	33324.5	34164.7	36363.5	38683.8	39829.2	40420.0	39451.8	38687.1	37863.4
65°	30400.3	30534.9	31677.0	34515.8	34765.2	35342.9	35697.3	36455.4	37709.1	39730.8	36507.9
67.5°	27328.4	27725.6	29123.6	32477.8	30049.1	29366.5	29277.9	28523.1	31778.7	37243.1	33167.0
70°	22576.2	22753.5	24476.5	26626.1	22678.0	21627.8	22047.9	21765.6	24634.0	32060.9	26695.0
72.5°	17072.5	17472.9	19156.5	21224.1	15431.5	14069.5	15228.0	15123.0	18503.4	25766.3	18339.3
75°	12146.3	12405.6	14552.0	16609.7	10807.3	9156.5	9573.3	9963.9	12917.6	20344.5	10836.9
77.5°	8345.9	8569.1	10180.5	10984.5	7883.1	7551.7	6908.4	7285.8	8464.0	12070.9	5897.6
80°	5034.4	5024.6	6084.7	6281.6	5490.6	6376.7	5349.5	6005.9	5116.5	5165.7	2284.2
82.5°	3268.8	3236.0	3721.7	4056.4	3055.5	3213.0	2156.2	3108.0	3334.4	1440.8	722.0
85°	1463.7	1526.1	1788.6	2359.7	1339.0	712.2	439.8	955.0	1421.1	725.3	0.0
87.5°	151.0	118.1	315.1	574.3	183.8	19.7	65.6	32.8	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°	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1
2.5°	15621.9	15431.5	14863.8	14332.1	13875.9	13318.0	12957.0	12389.2	12044.6	11939.6	11956.0
5°	14995.0	14447.0	13367.2	12504.1	11542.5	10994.4	10160.8	9360.0	8926.8	8766.0	8693.8
7.5°	13682.3	13094.8	11791.9	10436.5	9405.9	8444.3	7824.1	7118.5	6636.0	6238.9	6170.0
10°	12707.5	11936.3	10321.6	8864.4	8050.5	7328.5	6708.2	6002.6	5434.8	4981.9	4857.2
12.5°	12123.4	11260.2	9458.5	8237.6	7466.3	6724.6	5917.3	5100.1	4519.2	4030.2	3803.7
15°	12018.3	11017.4	9215.6	7788.0	6836.2	5940.3	4867.1	3984.2	3386.9	2924.2	2783.1
17.5°	12651.8	11453.9	9179.5	7318.7	6012.5	4742.4	3626.5	2894.6	2221.9	1962.6	1860.8
20°	13780.7	12225.1	9176.2	6773.9	5165.7	3652.8	2546.8	1887.1	1614.7	1490.0	1430.9
22.5°	15319.9	13275.3	9350.2	6304.5	4286.2	2694.4	1818.2	1503.1	1345.6	1243.8	1220.9
25°	17200.5	14830.9	9776.8	5986.2	3613.4	2113.5	1499.8	1286.5	1155.2	1109.3	1089.6
27.5°	18871.0	16320.9	10246.1	5658.0	3130.9	1870.7	1391.5	1178.2	1073.2	1037.1	1007.5
30°	20311.7	17673.1	10472.6	5224.8	2743.7	1713.2	1411.2	1260.3	1122.4	1014.1	964.9
32.5°	21512.9	18710.2	10620.3	4831.0	2415.5	1401.4	1115.8	974.7	912.4	873.0	840.2
35°	23016.0	19832.6	10531.6	4607.8	2248.1	1276.7	1017.4	840.2	735.1	656.4	623.6
37.5°	24591.3	20955.0	10377.4	4424.0	2172.6	1184.8	968.2	797.5	682.6	600.6	557.9
40°	26222.4	21995.3	10196.9	4253.4	2103.7	1125.7	938.6	761.4	646.5	557.9	512.0
42.5°	27715.7	23009.4	10124.7	4141.8	1992.1	1135.5	915.7	745.0	610.4	518.5	479.2
45°	28923.4	23971.0	10223.1	4082.7	1870.7	1119.1	922.2	725.3	580.9	492.3	452.9
47.5°	30213.2	25329.8	10541.5	4023.6	1752.5	1040.4	971.4	722.0	567.8	475.9	433.2
50°	31713.1	27069.2	11270.1	3879.2	1608.1	955.0	1033.8	718.7	551.4	456.2	413.5
52.5°	33711.7	29044.9	12021.6	3626.5	1398.1	873.0	987.9	708.9	518.5	433.2	390.5
55°	35507.0	31125.6	12658.3	3327.9	1132.3	754.8	889.4	666.2	462.7	393.8	354.4
57.5°	36248.7	32300.5	12638.6	2914.3	905.8	662.9	731.9	610.4	403.7	347.9	315.1
59°	35976.3	32152.8	12215.3	2609.1	827.0	613.7	607.2	603.9	377.4	315.1	288.8
60°	35592.3	31614.6	11759.1	2458.1	777.8	580.9	557.9	597.3	354.4	295.4	269.1
62.5°	34122.0	29382.9	10246.1	2202.2	712.2	492.3	446.3	505.4	315.1	256.0	233.0
65°	31992.0	25953.3	8674.1	2130.0	692.5	407.0	370.9	361.0	269.1	216.6	196.9
67.5°	27837.1	21962.5	7026.6	2080.7	699.0	341.3	324.9	272.4	223.2	180.5	167.4
70°	22287.4	17125.0	5753.2	2024.9	705.6	279.0	272.4	216.6	180.5	151.0	137.8
72.5°	13541.1	10150.9	4529.0	1759.1	685.9	223.2	242.9	164.1	131.3	108.3	101.7
75°	8372.1	6947.8	2809.3	1368.6	452.9	164.1	170.7	101.7	88.6	68.9	68.9
77.5°	4850.7	4387.9	1004.3	492.3	200.2	98.5	75.5	52.5	49.2	29.5	29.5
80°	2011.8	1611.4	347.9	167.4	108.3	45.9	16.4	3.3	0.0	0.0	0.0
82.5°	587.5	521.8	95.2	75.5	32.8	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°	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1
2.5°	11677.0	11568.7	11519.5	11686.9	11532.6	11729.5	11578.6	11644.2	11837.8	11923.2	12143.1
5°	8739.7	8628.1	8575.6	8828.3	8815.2	8939.9	8926.8	9041.7	9140.1	8920.2	9146.7
7.5°	6087.9	6012.5	6137.2	6334.1	6544.1	6475.2	6475.2	6321.0	6373.5	6340.6	6330.8
10°	4630.8	4371.5	4305.9	4299.3	4378.1	4394.5	4305.9	4092.5	4171.3	4194.3	4332.1
12.5°	3642.9	3442.7	3137.5	2999.7	2963.6	2993.1	2701.0	2513.9	2602.6	2550.0	2684.6
15°	2612.4	2448.3	2267.8	2113.5	2070.9	2011.8	1693.5	1470.3	1444.0	1453.9	1476.9
17.5°	1864.1	1752.5	1752.5	1588.4	1499.8	1322.6	1161.8	1063.3	1053.5	1063.3	1079.7
20°	1375.1	1316.0	1309.5	1266.8	1168.4	1050.2	938.6	918.9	912.4	928.8	935.3
22.5°	1184.8	1122.4	1069.9	1066.6	974.7	876.3	823.8	797.5	800.8	807.3	823.8
25°	1060.1	994.4	938.6	905.8	840.2	771.2	722.0	708.9	708.9	718.7	722.0
27.5°	971.4	889.4	840.2	794.2	735.1	676.1	633.4	623.6	617.0	623.6	640.0
30°	909.1	827.0	764.7	695.8	649.8	594.0	557.9	544.8	541.5	544.8	557.9
32.5°	777.8	728.6	679.4	617.0	561.2	525.1	485.7	462.7	462.7	469.3	482.4
35°	587.5	561.2	557.9	541.5	495.6	456.2	410.2	387.3	387.3	400.4	407.0
37.5°	518.5	469.3	462.7	456.2	436.5	384.0	341.3	321.6	318.3	328.2	341.3
40°	472.6	416.8	387.3	380.7	384.0	324.9	279.0	259.3	259.3	262.6	275.7
42.5°	436.5	370.9	318.3	311.8	324.9	272.4	226.5	206.8	206.8	206.8	223.2
45°	407.0	331.5	269.1	236.3	256.0	223.2	183.8	164.1	157.5	164.1	170.7
47.5°	387.3	301.9	236.3	190.4	190.4	177.2	147.7	124.7	118.1	121.4	131.3
50°	370.9	275.7	200.2	154.2	137.8	141.1	111.6	95.2	88.6	88.6	98.5
52.5°	344.6	249.4	173.9	131.3	105.0	95.2	82.0	68.9	65.6	68.9	75.5
55°	311.8	226.5	151.0	108.3	82.0	65.6	59.1	49.2	45.9	49.2	59.1
57.5°	275.7	190.4	121.4	85.3	55.8	42.7	39.4	32.8	26.3	29.5	36.1
59°	252.7	170.7	105.0	68.9	42.7	29.5	29.5	23.0	16.4	19.7	29.5
60°	242.9	157.5	88.6	59.1	36.1	23.0	23.0	16.4	9.8	13.1	23.0
62.5°	206.8	131.3	68.9	36.1	16.4	3.3	9.8	3.3	0.0	3.3	9.8
65°	173.9	105.0	45.9	16.4	0.0	0.0	0.0	0.0	0.0	0.0	3.3
67.5°	144.4	78.8	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	114.9	52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	78.8	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	49.2	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.7	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: P459511

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1	14437.1
2.5°	12156.2	12625.5	12914.3	13459.1	14017.0	14447.0	14985.2	15467.6	15667.8	15772.8
5°	9376.4	10029.5	10584.2	11414.5	12185.7	13124.3	14076.1	15198.5	15628.4	15740.0
7.5°	6580.2	7246.5	7827.3	8788.9	9888.4	11145.4	12569.7	13994.1	14620.9	14798.1
10°	4752.2	5464.4	6173.3	7134.9	8162.1	9524.1	11007.5	12769.9	13491.9	13629.8
12.5°	2999.7	3764.3	4916.3	6104.3	7190.7	8286.8	9839.2	11755.8	12553.3	12806.0
15°	1739.4	2310.5	3180.2	4729.2	6110.9	7561.5	9255.0	11375.1	12267.8	12527.0
17.5°	1165.1	1362.0	1959.3	3144.1	4968.8	6892.0	9107.3	11686.9	12674.7	13006.2
20°	981.3	1069.9	1279.9	1916.6	3826.7	6294.7	9146.7	12533.6	13830.0	14243.5
22.5°	863.1	945.2	1079.7	1378.4	2671.5	5553.0	9333.7	13744.6	15418.4	15946.8
25°	761.4	843.5	961.6	1142.1	1795.2	4696.4	9744.0	15516.9	17522.1	18103.0
27.5°	676.1	751.6	853.3	1007.5	1381.7	3741.4	10108.3	17243.1	19442.0	19914.6
30°	597.3	659.7	758.1	876.3	1148.7	2884.8	10292.1	18752.8	20840.1	21365.2
32.5°	518.5	577.6	672.8	768.0	945.2	2198.9	10164.1	19862.1	22198.8	22533.6
35°	443.1	505.4	584.2	672.8	817.2	1775.5	9524.1	21109.2	23606.8	23869.3
37.5°	380.7	433.2	515.3	584.2	738.4	1421.1	8749.6	22231.6	25185.4	25562.8
40°	321.6	374.1	456.2	518.5	679.4	1119.1	8050.5	23478.8	26849.3	27315.3
42.5°	262.6	324.9	397.1	498.8	584.2	853.3	7203.8	24489.6	28099.7	28683.9
45°	210.0	279.0	357.7	495.6	508.7	649.8	6386.6	25277.2	29205.7	29730.8
47.5°	167.4	236.3	344.6	462.7	416.8	515.3	5920.6	26101.0	30124.6	30544.7
50°	134.6	196.9	361.0	407.0	347.9	436.5	5907.4	27019.9	30600.5	30879.5
52.5°	108.3	160.8	305.2	311.8	295.4	384.0	6261.9	28053.7	31086.2	31316.0
55°	91.9	134.6	200.2	229.7	265.8	347.9	6527.7	29645.5	32244.7	32461.3
57.5°	72.2	114.9	154.2	183.8	236.3	318.3	6563.8	30872.9	33711.7	33852.9
59°	62.4	98.5	137.8	164.1	216.6	298.7	6416.1	30948.4	33806.9	34033.4
60°	52.5	88.6	121.4	154.2	200.2	282.2	6255.3	30400.3	33452.5	33705.2
62.5°	39.4	68.9	88.6	124.7	164.1	242.9	5493.9	28487.0	32097.1	32274.3
65°	26.3	49.2	65.6	91.9	128.0	210.0	4476.5	26005.8	30003.2	30400.3
67.5°	16.4	36.1	52.5	68.9	105.0	177.2	3190.0	22300.6	27072.5	27328.4
70°	9.8	23.0	39.4	55.8	82.0	141.1	1893.7	17627.1	22523.7	22576.2
72.5°	6.6	16.4	26.3	39.4	65.6	128.0	918.9	11490.0	16445.6	17072.5
75°	3.3	9.8	16.4	29.5	52.5	105.0	439.8	7676.4	11965.8	12146.3
77.5°	0.0	3.3	9.8	19.7	39.4	82.0	256.0	5041.0	8158.8	8345.9
80°	0.0	0.0	6.6	16.4	29.5	52.5	154.2	2973.4	4942.6	5034.4
82.5°	0.0	0.0	3.3	13.1	19.7	39.4	78.8	1306.2	3236.0	3268.8
85°	0.0	0.0	3.3	13.1	16.4	26.3	29.5	177.2	1437.5	1463.7
87.5°	0.0	0.0	3.3	16.4	16.4	16.4	16.4	9.8	121.4	151.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)