

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: P533358

Luminaire Tested: **GALN-SA8D-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43339 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

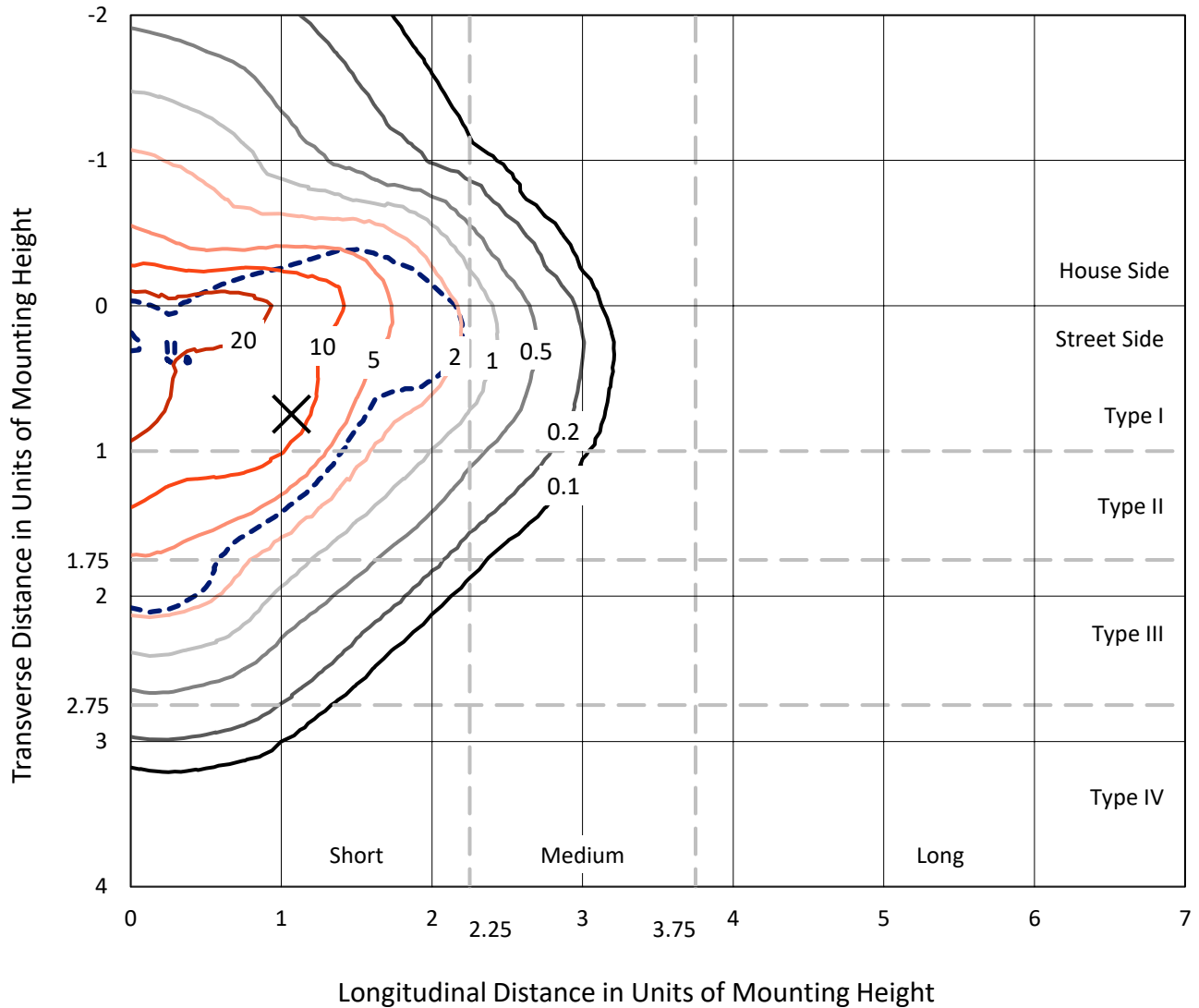
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

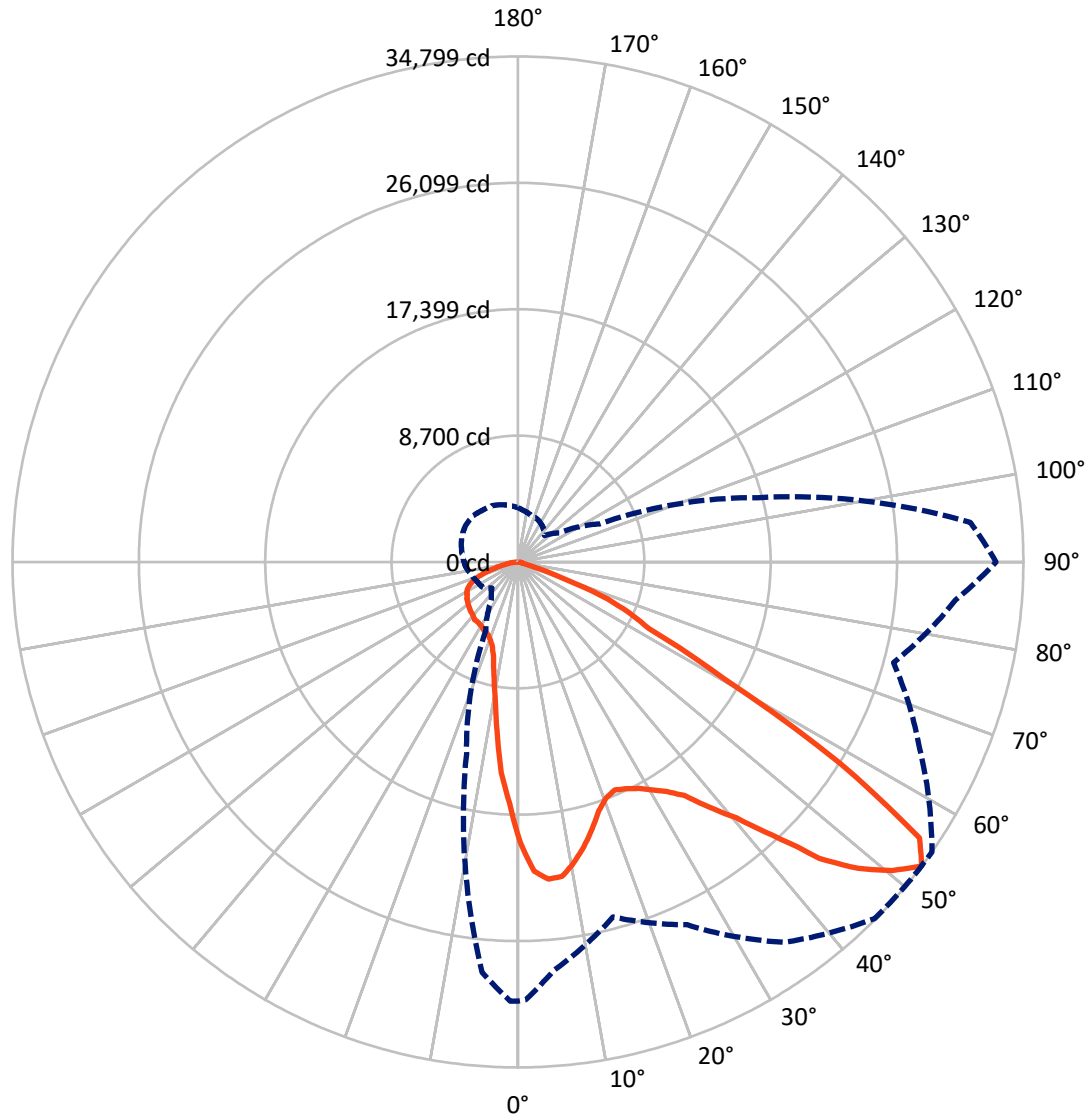
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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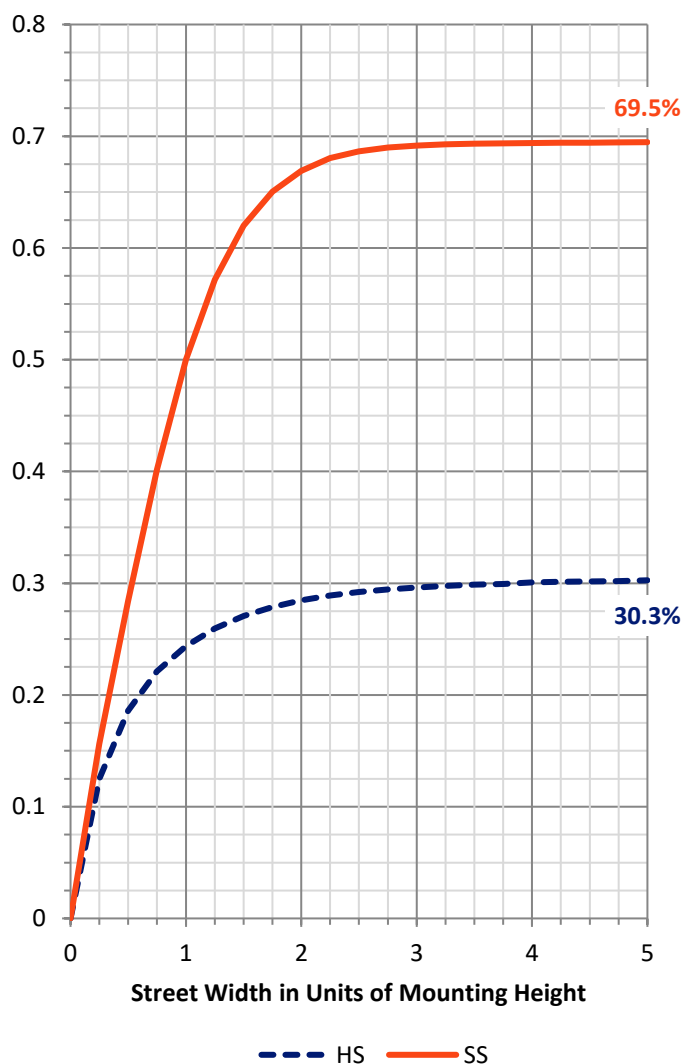
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13220.8	0.0	13220.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	30118.3	0.0	30118.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	43339.0	0.0	43339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1477.0	3.4
10°-20°	3184.5	7.3
20°-30°	4828.8	11.1
30°-40°	6976.9	16.1
40°-50°	9323.0	21.5
50°-60°	10406.5	24.0
60°-70°	5708.5	13.2
70°-80°	1234.2	2.8
80°-90°	199.7	0.5
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°	43339.0	100.0
0°-180°	43339.0	100.0

Coefficient of Utilization



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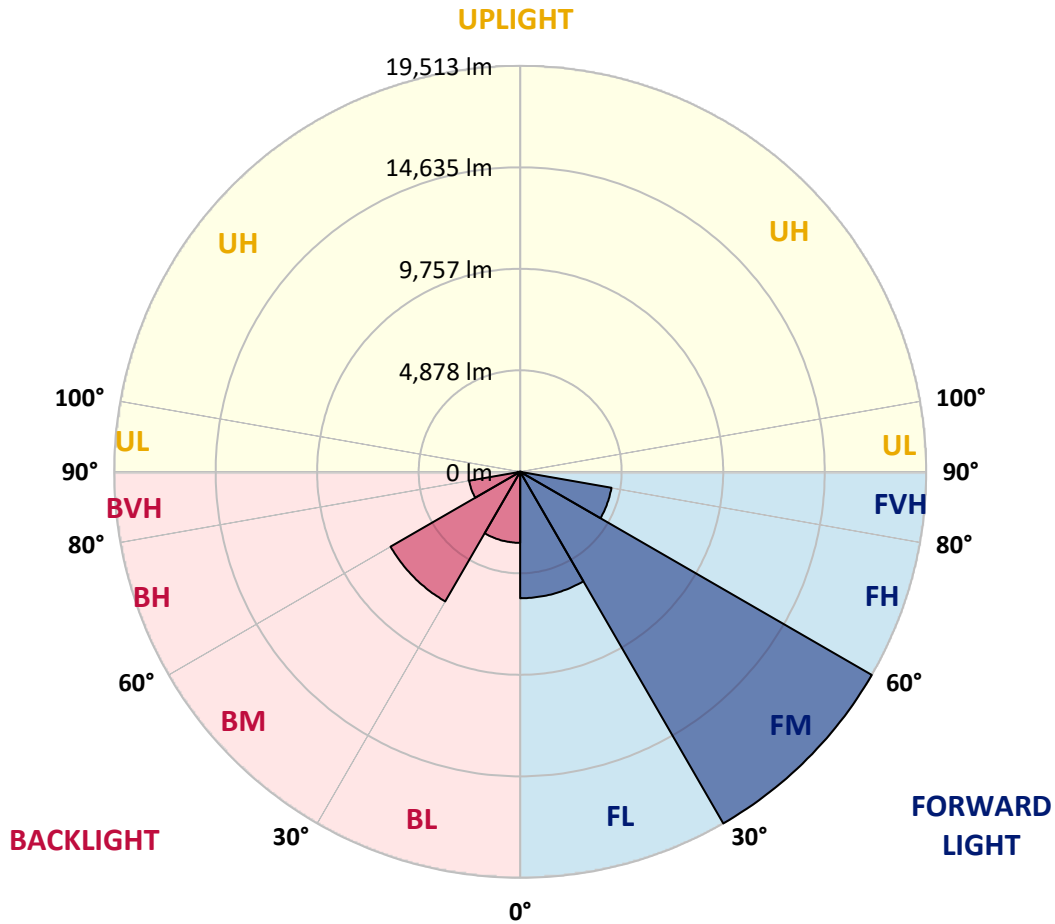
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6076.9	14.0			
FM (30°-60°)	19513.3	45.0			
FH (60°-80°)	4454.2	10.3			G2/5000
FVH (80°-90°)	73.9	0.2			G1/100
BL (0°-30°)	3413.4	7.9	B4/5000		
BM (30°-60°)	7193.2	16.6	B4/8500		
BH (60°-80°)	2488.5	5.7	B3/2500		G3/2500
BVH (80°-90°)	125.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5
2.5°	20288.1	20174.2	20275.4	20756.4	21034.8	21224.7	21344.9	21325.9	20870.3	20427.3	20427.3
5°	19693.3	19547.7	19756.5	20845.0	21939.8	22034.7	22192.9	21933.4	21262.6	20452.6	19440.1
7.5°	17972.0	18079.6	18427.6	19857.8	21281.6	21996.7	22186.5	21857.5	20769.0	19256.6	17769.5
10°	16484.9	16738.0	17541.7	19085.7	20395.7	21325.9	21534.7	21072.8	20212.2	18358.0	17029.1
12.5°	15972.3	15814.1	16706.4	18250.4	19503.4	20003.3	20098.3	20129.9	19547.7	17902.4	16282.4
15°	15909.0	16010.3	16706.4	17877.1	18649.1	18674.4	18832.6	19079.4	19155.4	18212.5	16630.4
17.5°	16820.3	16700.0	17415.1	18345.4	17978.3	17611.3	17649.3	18003.6	18630.1	18478.2	17725.2
20°	18168.2	18440.3	19003.5	18908.6	17921.4	16991.1	16997.5	17332.8	18566.8	19579.3	19250.3
22.5°	20408.3	20674.1	21091.8	19946.4	17921.4	16807.6	16592.5	17048.1	18971.8	20889.3	20971.5
25°	22452.3	22939.6	23053.5	21705.6	18820.0	16978.5	16839.2	17288.5	19376.8	22167.6	22945.9
27.5°	24312.8	24490.0	24989.9	22838.4	19319.9	17092.4	17079.7	17655.6	19889.4	22806.7	24711.5
30°	25780.9	25762.0	26046.7	23553.4	20117.2	17731.5	17117.7	18206.1	20560.2	23863.5	26344.2
32.5°	26780.8	26996.0	27597.1	24547.0	20452.6	18339.0	17858.1	18851.6	21376.5	24363.4	27495.9
35°	28540.0	28913.4	28154.0	25097.5	21515.8	18940.2	18377.0	19731.2	21781.5	24907.7	28907.1
37.5°	30198.0	29913.2	29141.2	25394.9	22205.5	20054.0	19528.7	21433.5	23040.9	26091.0	29843.6
40°	31261.1	31254.8	29881.6	25635.4	22692.8	21756.2	21724.6	23161.1	24584.9	26837.8	30894.1
42.5°	31723.1	32166.1	30185.4	25610.1	23718.0	23819.2	24458.4	25743.0	25679.7	26989.6	30868.8
44°	32355.9	32621.7	30710.6	25667.0	24401.4	25211.4	26717.5	27533.8	26635.2	26907.4	30837.2
45°	32330.6	32349.6	29963.9	25743.0	24983.6	26375.8	27723.7	29103.2	27476.9	26730.2	31254.8
47.5°	31590.2	31375.0	29331.0	25179.8	26799.8	29451.3	30697.9	31533.3	28514.7	26350.5	30735.9
50°	30128.4	29881.6	27793.3	24939.3	27179.5	31362.4	33083.7	33387.4	29457.6	25977.1	30223.3
52.5°	30229.6	30160.0	28229.9	25300.0	27559.2	31963.6	34722.6	34798.6	30527.1	26761.8	30229.6
55°	32039.5	31799.0	29482.9	25749.3	27280.7	31261.1	33678.5	33545.6	30166.4	26287.2	30786.5
57.5°	29318.4	29476.6	27749.0	23971.1	23876.2	25413.9	26477.0	26148.0	25173.4	23724.3	28641.3
60°	23654.7	24104.0	24268.5	20047.6	18016.3	17225.3	16908.9	16326.7	16491.2	19490.8	25160.8
62.5°	20288.1	20262.8	21294.3	18174.5	11802.0	10150.4	9998.5	10131.4	12029.8	19187.0	24641.9
65°	16086.2	16516.5	16832.9	15402.8	9340.4	7536.8	7530.5	8372.2	10409.8	16035.6	19895.8
67.5°	10213.7	10776.9	11169.2	9853.0	6245.9	5366.3	5220.7	6233.2	7214.1	10517.4	11979.2
70°	5758.6	6024.4	6201.6	5682.7	3974.1	2784.4	2619.9	2860.3	4360.1	6809.1	7100.2
72.5°	2221.2	2341.4	2581.9	2600.9	1499.8	898.6	727.7	873.3	1835.2	2695.8	2569.2
75°	341.7	367.0	518.9	620.2	430.3	329.1	348.0	360.7	512.6	696.1	582.2
77.5°	164.5	164.5	158.2	183.5	215.2	234.1	253.1	278.4	303.8	335.4	322.7
80°	107.6	107.6	107.6	126.6	158.2	189.8	215.2	227.8	240.5	265.8	253.1
82.5°	69.6	69.6	69.6	94.9	126.6	158.2	170.9	202.5	227.8	265.8	246.8
85°	38.0	38.0	38.0	63.3	94.9	132.9	126.6	101.3	57.0	6.3	12.7
87.5°	12.7	12.7	12.7	12.7	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°	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5
2.5°	19895.8	19604.7	19579.3	18984.5	18452.9	18193.5	17984.6	17402.5	17529.0	17193.6	17187.3
5°	18933.9	18339.0	17377.1	16586.1	15795.1	15636.9	14947.1	14346.0	14364.9	13934.6	14010.6
7.5°	17206.3	16795.0	15624.2	14383.9	13333.4	12586.7	11934.9	11542.6	11042.6	10871.8	10783.2
10°	16111.5	15605.3	14289.0	12732.3	11555.2	11156.6	10530.1	10182.0	9669.4	9416.3	9239.1
12.5°	15630.6	14890.2	13244.9	11662.8	10878.1	10466.8	9935.2	9302.4	8694.9	8460.8	8138.0
15°	15681.2	14795.3	12941.1	11232.5	10289.6	9492.2	9017.6	8315.2	7695.0	7283.7	7049.6
17.5°	16446.9	15371.1	13080.3	10903.4	9549.2	8549.4	7619.1	6859.7	6366.1	6056.1	5980.1
20°	18256.8	16795.0	13314.5	10371.9	8808.8	7562.2	6416.8	5625.7	5246.0	5239.7	5246.0
22.5°	19762.9	18313.7	13789.1	10055.5	8068.4	6296.5	5157.5	4904.3	4828.4	4986.6	5005.6
25°	21794.2	20022.3	14605.4	9890.9	7385.0	5366.3	4663.9	4568.9	4562.6	4765.1	4771.4
27.5°	23876.2	21515.8	15092.7	9410.0	6688.9	4885.3	4366.4	4347.4	4448.7	4663.9	4644.9
30°	25293.7	22768.7	15972.3	8834.1	5866.2	4461.4	4246.2	4271.5	4410.7	4575.3	4600.6
32.5°	26945.3	24002.7	16200.1	8517.7	5360.0	4107.0	3955.1	4012.1	4189.2	4448.7	4587.9
35°	28837.5	24876.0	16548.2	8087.4	5170.1	3834.9	3758.9	3822.2	4037.4	4208.2	4360.1
37.5°	30236.0	26420.1	16611.4	7752.0	4961.3	3683.0	3562.8	3771.6	3898.2	4138.6	4214.6
40°	31273.8	27540.2	16776.0	7543.2	4796.7	3486.8	3486.8	3626.0	3796.9	4018.4	4170.3
42.5°	31938.3	28356.5	16896.2	7353.3	4480.3	3429.9	3398.2	3537.4	3765.3	3980.4	4050.0
44°	32343.3	28704.6	16776.0	7176.1	4391.7	3360.3	3360.3	3480.5	3657.7	3910.8	3993.1
45°	32444.5	29141.2	16510.2	7169.8	4284.2	3278.0	3265.3	3493.1	3613.4	3923.5	3974.1
47.5°	32836.9	29679.1	16541.8	6967.3	4024.7	3081.8	3303.3	3404.6	3512.1	3784.2	3955.1
50°	32824.2	30014.5	16472.2	6669.9	3834.9	2860.3	3227.4	3341.3	3448.9	3727.3	3796.9
52.5°	32912.8	31267.5	17111.4	6195.3	3493.1	2575.6	2974.2	3227.4	3360.3	3594.4	3739.9
55°	32868.5	31982.5	17744.2	5840.9	3012.2	2404.7	2759.1	3056.5	3246.3	3493.1	3562.8
57.5°	30020.8	28267.9	16421.6	5176.4	2493.3	2202.2	2455.3	2879.3	3119.8	3372.9	3461.5
60°	24528.0	21787.9	13542.3	3809.6	2050.3	2025.0	2284.5	2822.4	2923.6	3145.1	3297.0
62.5°	22667.5	19111.1	10738.9	2911.0	1752.9	1854.2	2107.3	2550.3	2708.5	2980.6	3119.8
65°	17737.8	12694.3	6650.9	1968.1	1544.1	1664.3	1904.8	2233.8	2493.3	2746.4	2911.0
67.5°	10504.8	6935.7	3290.6	1379.5	1347.9	1474.5	1721.3	1968.1	2265.5	2543.9	2626.2
70°	5720.7	3410.9	1404.9	1050.5	1145.4	1259.3	1499.8	1670.6	1955.4	2170.6	2309.8
72.5°	1835.2	1037.8	702.4	778.4	873.3	1006.2	1151.7	1360.6	1563.1	1689.6	1803.5
75°	443.0	436.6	499.9	544.2	632.8	734.1	854.3	961.9	1120.1	1240.3	1341.6
77.5°	310.1	335.4	386.0	449.3	480.9	518.9	594.8	677.1	746.7	835.3	898.6
80°	240.5	259.5	297.4	329.1	360.7	392.3	430.3	462.0	506.3	563.2	594.8
82.5°	227.8	240.5	278.4	297.4	284.8	278.4	303.8	316.4	322.7	341.7	360.7
85°	19.0	0.0	12.7	44.3	107.6	158.2	170.9	170.9	164.5	177.2	177.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	25.3	19.0
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°	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5
2.5°	17111.4	16896.2	16978.5	17079.7	16934.2	16598.8	16687.4	16649.4	16991.1	16965.8	17307.5
5°	14346.0	14010.6	14048.5	14542.1	14383.9	14554.8	14213.1	14168.8	14232.0	14263.7	14320.6
7.5°	10979.4	10935.1	11314.8	11732.4	11928.6	11726.1	11390.7	11314.8	11245.2	11105.9	11422.3
10°	8960.7	8973.3	8948.0	9264.4	9485.9	9441.6	9239.1	9213.8	9080.9	9030.3	9207.5
12.5°	7998.8	7827.9	7745.7	7644.4	7815.3	7929.2	7840.6	7777.3	7783.6	7846.9	7872.2
15°	7068.6	6961.0	6783.8	6669.9	6752.2	6695.2	6663.6	6790.1	6758.5	6745.8	6897.7
17.5°	6024.4	6113.0	6100.4	5973.8	6081.4	6037.1	6030.7	5942.1	5821.9	5733.3	5783.9
20°	5334.6	5499.2	5625.7	5632.1	5689.0	5682.7	5587.8	5315.7	5227.1	5208.1	5220.7
22.5°	5087.8	5176.4	5328.3	5543.5	5543.5	5442.2	5328.3	5011.9	4929.6	4841.0	4803.1
25°	4891.7	5062.5	5258.7	5284.0	5385.3	5290.3	5106.8	4948.6	4777.8	4657.5	4657.5
27.5°	4790.4	4980.3	5125.8	5170.1	5309.3	5233.4	5043.5	4841.0	4638.5	4632.2	4524.6
30°	4746.1	4923.3	5018.2	5125.8	5189.1	5068.9	5011.9	4796.7	4594.2	4543.6	4366.4
32.5°	4613.2	4866.4	5043.5	5018.2	5068.9	5018.2	4936.0	4758.8	4531.0	4417.1	4398.1
35°	4461.4	4714.5	4904.3	5037.2	5068.9	4961.3	4910.7	4670.2	4360.1	4303.2	4107.0
37.5°	4379.1	4531.0	4765.1	4980.3	5024.6	4967.6	4796.7	4550.0	4239.9	4176.6	4005.7
40°	4277.8	4474.0	4657.5	4834.7	4967.6	4828.4	4632.2	4391.7	4252.5	4062.7	4012.1
42.5°	4201.9	4423.4	4575.3	4771.4	4923.3	4739.8	4512.0	4347.4	4151.3	4024.7	3879.2
44°	4176.6	4379.1	4480.3	4720.8	4847.4	4708.2	4518.3	4347.4	4119.6	4005.7	3879.2
45°	4088.0	4366.4	4474.0	4689.2	4796.7	4682.8	4442.4	4271.5	4107.0	3967.8	3834.9
47.5°	3999.4	4189.2	4372.8	4543.6	4619.6	4581.6	4379.1	4170.3	3974.1	3891.8	3765.3
50°	3974.1	4163.9	4334.8	4493.0	4581.6	4505.7	4322.1	4119.6	3891.8	3758.9	3651.4
52.5°	3847.5	4081.7	4271.5	4322.1	4436.0	4391.7	4252.5	4031.0	3815.9	3702.0	3613.4
55°	3664.0	3910.8	4170.3	4233.5	4398.1	4328.5	4119.6	3910.8	3727.3	3556.4	3442.5
57.5°	3594.4	3834.9	4088.0	4170.3	4271.5	4157.6	4107.0	3885.5	3594.4	3505.8	3328.6
60°	3417.2	3721.0	3929.8	4119.6	4126.0	4094.3	4005.7	3752.6	3512.1	3347.6	3221.0
62.5°	3278.0	3562.8	3727.3	3904.5	4012.1	3923.5	3834.9	3600.7	3341.3	3157.8	3012.2
65°	3075.5	3334.9	3474.2	3581.7	3702.0	3689.3	3537.4	3366.6	3094.5	2948.9	2809.7
67.5°	2765.4	2993.2	3183.1	3284.3	3360.3	3341.3	3227.4	3107.1	2828.7	2683.1	2581.9
70°	2392.0	2626.2	2746.4	2803.4	2879.3	2917.3	2828.7	2771.7	2524.9	2335.1	2240.2
72.5°	1923.8	2075.6	2252.8	2303.5	2335.1	2360.4	2360.4	2309.8	2056.7	1980.7	1816.2
75°	1417.5	1537.7	1670.6	1670.6	1727.6	1733.9	1746.6	1714.9	1525.1	1423.8	1385.9
77.5°	961.9	1050.5	1158.1	1202.4	1240.3	1234.0	1227.7	1139.1	1037.8	993.5	955.6
80°	626.5	715.1	765.7	822.7	860.6	854.3	867.0	803.7	759.4	683.4	696.1
82.5°	373.4	443.0	493.6	563.2	563.2	582.2	582.2	563.2	518.9	480.9	480.9
85°	177.2	234.1	265.8	310.1	335.4	341.7	303.8	259.5	215.2	196.2	215.2
87.5°	31.6	44.3	63.3	57.0	69.6	63.3	63.3	63.3	63.3	50.6	57.0
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: P533358

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5	19332.5
2.5°	17181.0	17497.4	17718.9	18085.9	18718.7	19225.0	19743.9	20129.9	20174.2	20288.1
5°	14529.5	14700.3	15263.5	15997.6	16516.5	17370.8	17921.4	18921.2	19294.6	19693.3
7.5°	11346.4	11624.8	12377.9	12871.5	14010.6	15080.0	16187.4	17421.4	17915.0	17972.0
10°	9568.2	9973.2	10485.8	11276.8	11897.0	13086.6	14466.2	15839.4	16389.9	16484.9
12.5°	8403.8	8922.7	9606.2	10175.7	10770.5	11808.4	13130.9	14826.9	15542.0	15972.3
15°	7283.7	7821.6	8574.7	9365.7	9890.9	11131.2	12688.0	14599.1	15529.3	15909.0
17.5°	6132.0	6631.9	7252.1	8106.4	9163.2	10555.4	12618.4	15358.5	16377.3	16820.3
20°	5144.8	5423.2	6144.6	7024.3	8346.9	9966.9	12643.7	16478.5	17972.0	18168.2
22.5°	4758.8	4822.1	5106.8	5916.8	7366.0	9365.7	13093.0	18066.9	19762.9	20408.3
25°	4461.4	4448.7	4524.6	5068.9	6650.9	9131.5	13535.9	19528.7	21749.9	22452.3
27.5°	4296.8	4170.3	4176.6	4689.2	6144.6	8751.9	14105.5	21205.7	24002.7	24312.8
30°	4214.6	4189.2	4113.3	4322.1	5594.1	8182.3	14200.4	22857.3	25331.6	25780.9
32.5°	4163.9	3917.1	3822.2	3898.2	5075.2	7562.2	14554.8	23945.8	26977.0	26780.8
35°	3910.8	3689.3	3626.0	3702.0	4708.2	7214.1	14320.6	24895.0	28211.0	28540.0
37.5°	3815.9	3619.7	3493.1	3429.9	4366.4	6923.0	14200.4	26356.8	29407.0	30198.0
40°	3727.3	3518.5	3366.6	3303.3	4100.7	6537.0	14162.4	27483.2	30786.5	31261.1
42.5°	3626.0	3493.1	3322.3	3208.4	3777.9	6151.0	13725.8	27831.3	31210.5	31723.1
44°	3594.4	3391.9	3214.7	3176.7	3651.4	5954.8	13637.2	28147.7	31577.5	32355.9
45°	3562.8	3372.9	3170.4	3119.8	3607.1	5847.2	13517.0	28223.6	32185.1	32330.6
47.5°	3474.2	3353.9	3157.8	3018.5	3512.1	5613.1	13156.3	27793.3	31564.9	31590.2
50°	3404.6	3265.3	3062.8	2790.7	3385.6	5416.9	13320.8	27635.1	30071.4	30128.4
52.5°	3328.6	3119.8	3005.9	2537.6	3176.7	5252.4	13668.8	28350.2	30242.3	30229.6
55°	3240.0	3012.2	2733.8	2322.4	2828.7	5043.5	14510.5	29761.4	31824.3	32039.5
57.5°	3100.8	2904.6	2506.0	2132.6	2430.0	4644.9	14238.4	27059.2	29280.4	29318.4
60°	2917.3	2733.8	2271.8	1987.0	1993.4	3664.0	12732.3	21085.4	23104.1	23654.7
62.5°	2740.1	2638.8	2075.6	1778.2	1695.9	2917.3	10764.2	17522.7	19832.5	20288.1
65°	2531.3	2284.5	1904.8	1620.0	1455.5	2044.0	7625.4	13093.0	15472.4	16086.2
67.5°	2265.5	1999.7	1677.0	1423.8	1246.6	1366.9	3936.1	7441.9	9853.0	10213.7
70°	1980.7	1733.9	1411.2	1202.4	1006.2	942.9	1733.9	3550.1	5385.3	5758.6
72.5°	1626.3	1398.5	1126.4	949.2	753.1	651.8	582.2	949.2	1911.1	2221.2
75°	1177.0	1018.8	848.0	677.1	531.6	417.7	341.7	284.8	316.4	341.7
77.5°	867.0	740.4	626.5	480.9	373.4	297.4	234.1	177.2	170.9	164.5
80°	677.1	601.2	499.9	386.0	291.1	221.5	164.5	120.2	107.6	107.6
82.5°	531.6	493.6	411.3	316.4	240.5	177.2	120.2	82.3	69.6	69.6
85°	202.5	202.5	297.4	259.5	183.5	126.6	82.3	44.3	38.0	38.0
87.5°	50.6	50.6	50.6	50.6	44.3	38.0	38.0	19.0	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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