

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: P534060

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534060
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-SA9C-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA 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: 44218 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

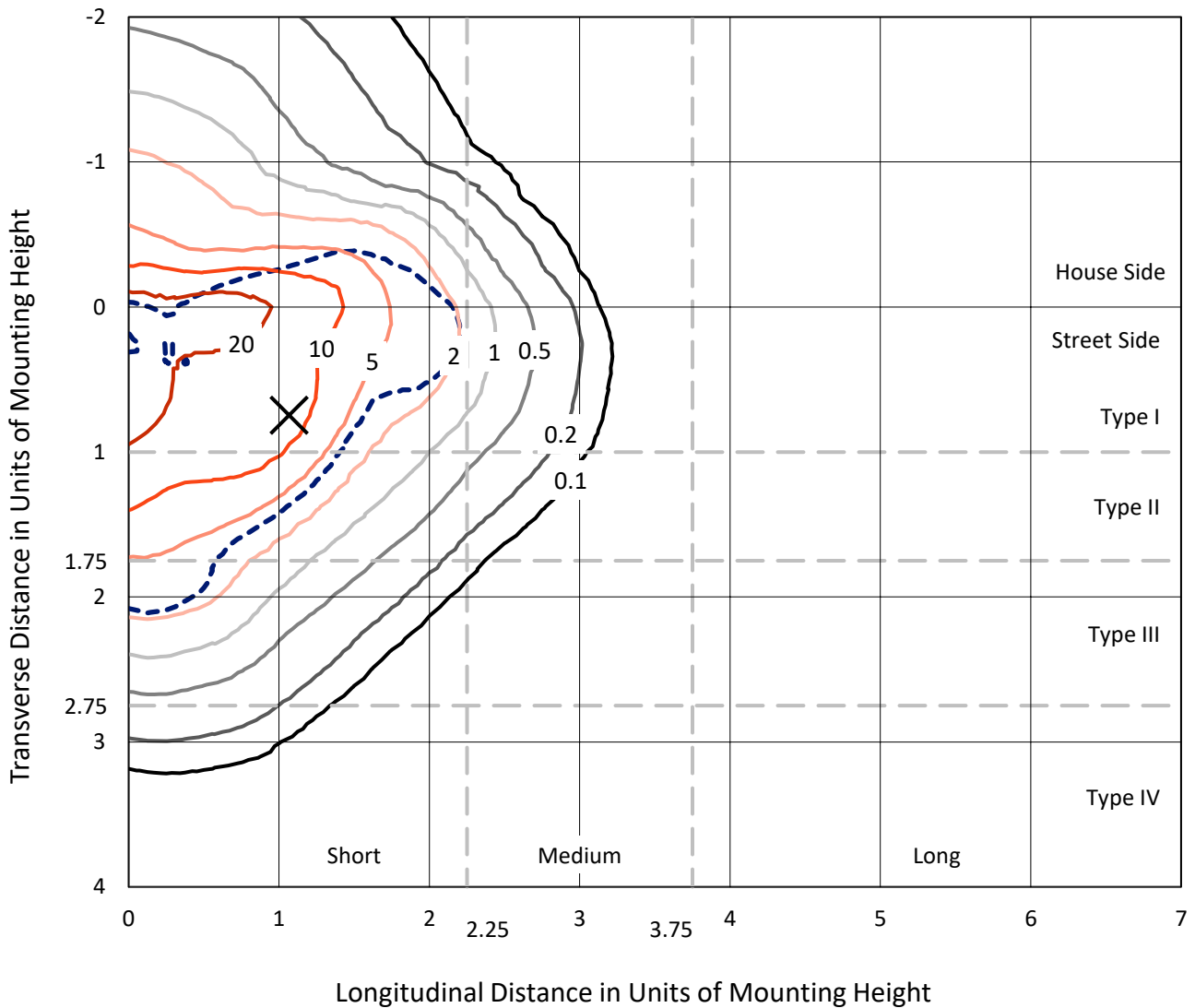
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

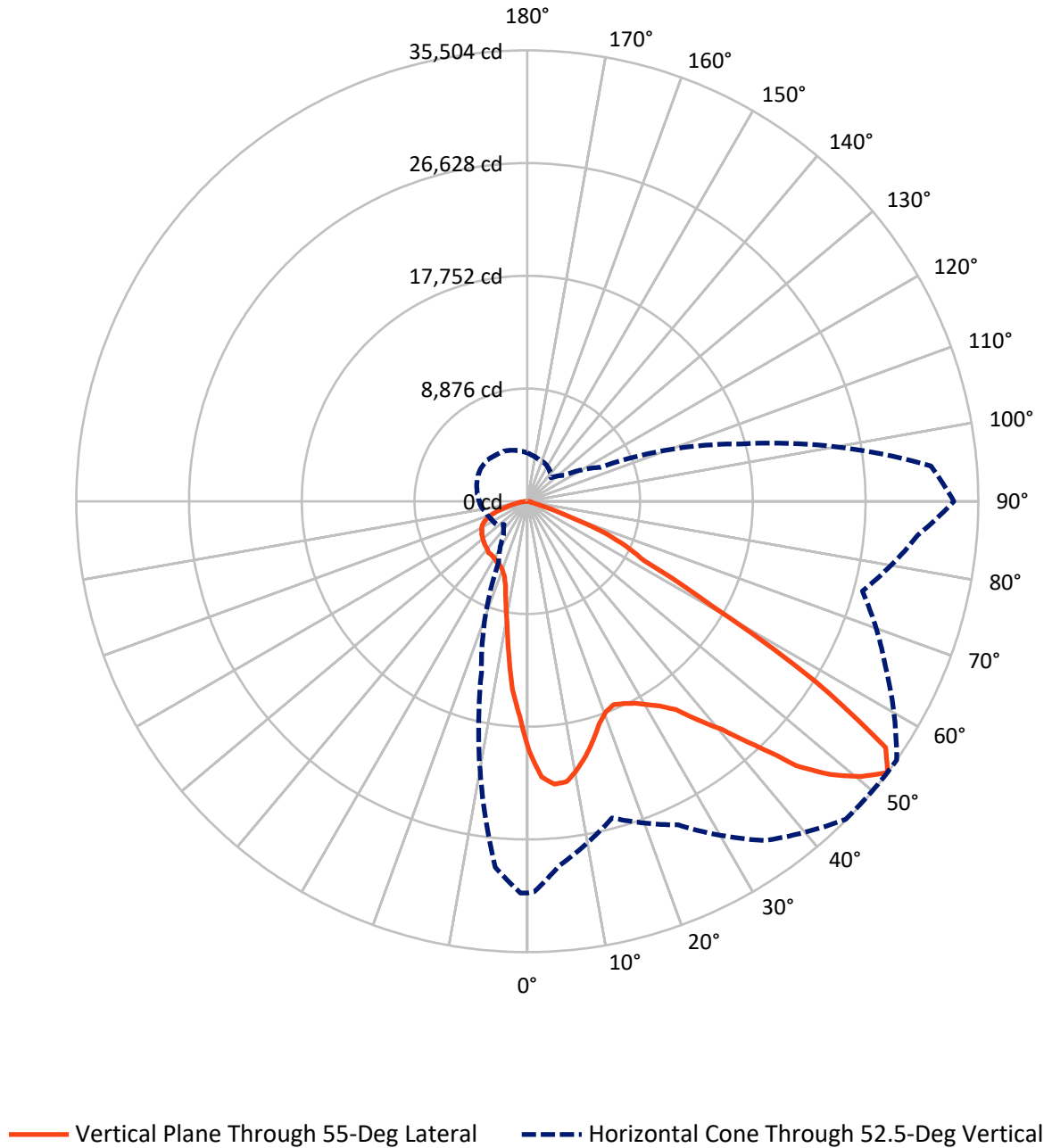
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13488.9	0.0	13488.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	30729.1	0.0	30729.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	44218.0	0.0	44218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1506.9	3.4
10°-20°	3249.1	7.3
20°-30°	4926.7	11.1
30°-40°	7118.4	16.1
40°-50°	9512.1	21.5
50°-60°	10617.6	24.0
60°-70°	5824.2	13.2
70°-80°	1259.2	2.8
80°-90°	203.7	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°	44218.0	100.0
0°-180°	44218.0	100.0

Coefficient of Utilization

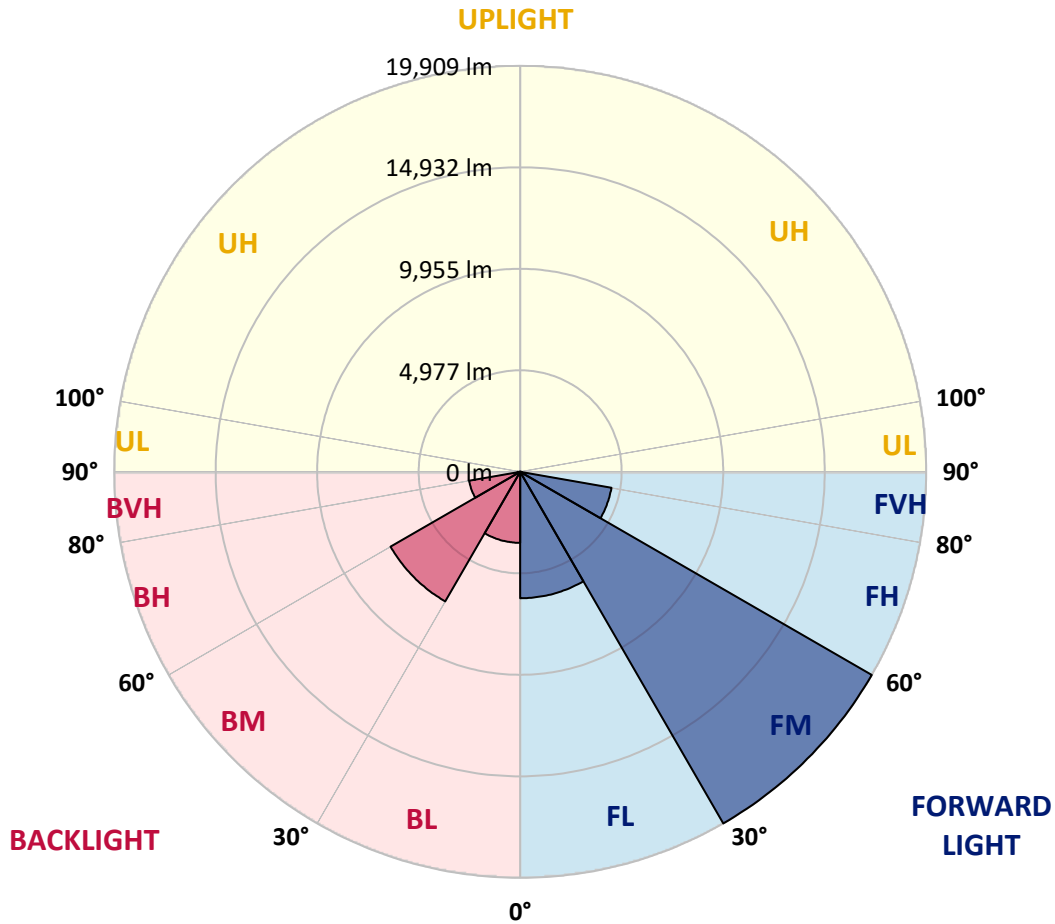


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6200.2	14.0			
FM (30°-60°)	19909.0	45.0			
FH (60°-80°)	4544.5	10.3			G2/5000
FVH (80°-90°)	75.4	0.2			G1/100
BL (0°-30°)	3482.6	7.9	B4/5000		
BM (30°-60°)	7339.1	16.6	B4/8500		
BH (60°-80°)	2538.9	5.7	B4/5000		G4/5000
BVH (80°-90°)	128.3	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6
2.5°	20699.6	20583.4	20686.7	21177.4	21461.5	21655.1	21777.8	21758.5	21293.6	20841.6	20841.6
5°	20092.7	19944.2	20157.2	21267.8	22384.7	22481.6	22643.0	22378.3	21693.9	20867.5	19834.4
7.5°	18336.5	18446.3	18801.4	20260.5	21713.3	22442.8	22636.5	22300.8	21190.3	19647.2	18129.9
10°	16819.2	17077.5	17897.5	19472.8	20809.3	21758.5	21971.5	21500.2	20622.1	18730.3	17374.5
12.5°	16296.2	16134.8	17045.2	18620.6	19899.0	20409.0	20505.9	20538.2	19944.2	18265.5	16612.6
15°	16231.7	16335.0	17045.2	18239.7	19027.3	19053.2	19214.6	19466.4	19543.9	18581.8	16967.7
17.5°	17161.4	17038.7	17768.3	18717.4	18343.0	17968.5	18007.2	18368.8	19008.0	18853.0	18084.7
20°	18536.6	18814.3	19388.9	19292.1	18284.8	17335.7	17342.2	17684.4	18943.4	19976.5	19640.7
22.5°	20822.3	21093.4	21519.6	20350.9	18284.8	17148.5	16929.0	17393.8	19356.6	21313.0	21396.9
25°	22907.7	23404.9	23521.1	22145.8	19201.7	17322.8	17180.8	17639.2	19769.8	22617.2	23411.3
27.5°	24805.9	24986.7	25496.8	23301.6	19711.7	17439.0	17426.1	18013.7	20292.8	23269.3	25212.7
30°	26303.8	26284.5	26575.0	24031.1	20525.3	18091.2	17464.9	18575.4	20977.2	24347.5	26878.5
32.5°	27324.0	27543.5	28156.9	25044.8	20867.5	18711.0	18220.3	19234.0	21810.1	24857.6	28053.6
35°	29118.9	29499.8	28725.0	25606.5	21952.1	19324.3	18749.7	20131.4	22223.3	25412.8	29493.4
37.5°	30810.5	30519.9	29732.2	25910.0	22655.9	20460.7	19924.8	21868.2	23508.2	26620.2	30448.9
40°	31895.2	31888.7	30487.7	26155.3	23153.1	22197.5	22165.2	23630.8	25083.6	27382.1	31520.7
42.5°	32366.5	32818.5	30797.6	26129.5	24199.0	24302.3	24954.4	26265.1	26200.5	27537.0	31494.9
44°	33012.2	33283.3	31333.5	26187.6	24896.3	25722.7	27259.4	28092.3	27175.5	27453.1	31462.6
45°	32986.3	33005.7	30571.6	26265.1	25490.3	26910.7	28286.0	29693.5	28034.2	27272.3	31888.7
47.5°	32230.9	32011.4	29925.9	25690.5	27343.3	30048.6	31320.5	32172.8	29093.0	26884.9	31359.3
50°	30739.5	30487.7	28357.0	25445.1	27730.7	31998.5	33754.7	34064.6	30055.1	26504.0	30836.3
52.5°	30842.8	30771.7	28802.5	25813.1	28118.1	32611.8	35426.9	35504.4	31146.2	27304.6	30842.8
55°	32689.3	32444.0	30080.9	26271.6	27834.0	31895.2	34361.6	34226.0	30778.2	26820.4	31410.9
57.5°	29913.0	30074.4	28311.8	24457.3	24360.4	25929.4	27014.1	26678.3	25684.0	24205.5	29222.2
60°	24134.4	24592.9	24760.7	20454.2	18381.7	17574.6	17251.8	16657.8	16825.7	19886.1	25671.1
62.5°	20699.6	20673.8	21726.2	18543.1	12041.4	10356.2	10201.3	10336.9	12273.8	19576.1	25141.7
65°	16412.5	16851.5	17174.3	15715.2	9529.8	7689.7	7683.3	8542.0	10621.0	16360.8	20299.3
67.5°	10420.8	10995.4	11395.7	10052.8	6372.6	5475.1	5326.6	6359.7	7360.4	10730.7	12222.2
70°	5875.4	6146.6	6327.4	5797.9	4054.7	2840.9	2673.0	2918.3	4448.5	6947.2	7244.2
72.5°	2266.2	2388.9	2634.3	2653.6	1530.2	916.8	742.5	891.0	1872.4	2750.5	2621.3
75°	348.7	374.5	529.4	632.7	439.0	335.7	355.1	368.0	523.0	710.2	594.0
77.5°	167.9	167.9	161.4	187.2	219.5	238.9	258.3	284.1	309.9	342.2	329.3
80°	109.8	109.8	109.8	129.1	161.4	193.7	219.5	232.4	245.3	271.2	258.3
82.5°	71.0	71.0	71.0	96.8	129.1	161.4	174.3	206.6	232.4	271.2	251.8
85°	38.7	38.7	38.7	64.6	96.8	135.6	129.1	103.3	58.1	6.5	12.9
87.5°	12.9	12.9	12.9	12.9	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°	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6
2.5°	20299.3	20002.3	19976.5	19369.5	18827.2	18562.5	18349.4	17755.4	17884.5	17542.3	17535.9
5°	19317.9	18711.0	17729.6	16922.5	16115.5	15954.0	15250.3	14636.9	14656.3	14217.2	14294.7
7.5°	17555.3	17135.6	15941.1	14675.7	13603.9	12842.0	12177.0	11776.7	11266.6	11092.3	11001.9
10°	16438.3	15921.8	14578.8	12990.5	11789.6	11382.8	10743.6	10388.5	9865.6	9607.3	9426.5
12.5°	15947.6	15192.2	13513.5	11899.4	11098.7	10679.1	10136.7	9491.1	8871.2	8632.4	8303.1
15°	15999.2	15095.3	13203.6	11460.3	10498.3	9684.8	9200.5	8483.9	7851.1	7431.4	7192.6
17.5°	16780.5	15682.9	13345.6	11124.6	9742.9	8722.7	7773.6	6998.9	6495.3	6178.9	6101.4
20°	18627.0	17135.6	13584.5	10582.2	8987.5	7715.5	6546.9	5739.8	5352.4	5346.0	5352.4
22.5°	20163.7	18685.1	14068.7	10259.4	8232.1	6424.2	5262.1	5003.8	4926.3	5087.7	5107.1
25°	22236.2	20428.4	14901.6	10091.5	7534.8	5475.1	4758.5	4661.6	4655.1	4861.8	4868.2
27.5°	24360.4	21952.1	15398.8	9600.8	6824.5	4984.4	4455.0	4435.6	4538.9	4758.5	4739.1
30°	25806.7	23230.5	16296.2	9013.3	5985.2	4551.8	4332.3	4358.1	4500.2	4668.1	4693.9
32.5°	27491.8	24489.6	16528.7	8690.5	5468.7	4190.3	4035.3	4093.4	4274.2	4538.9	4681.0
35°	29422.3	25380.6	16883.8	8251.4	5275.0	3912.6	3835.2	3899.7	4119.3	4293.6	4448.5
37.5°	30849.2	26955.9	16948.3	7909.2	5061.9	3757.7	3635.0	3848.1	3977.2	4222.6	4300.0
40°	31908.1	28098.7	17116.2	7696.2	4894.0	3557.5	3557.5	3699.6	3873.9	4099.9	4254.8
42.5°	32586.0	28931.6	17238.9	7502.5	4571.2	3499.4	3467.1	3609.2	3841.6	4061.1	4132.2
44°	32999.2	29286.7	17116.2	7321.7	4480.8	3428.4	3428.4	3551.1	3731.9	3990.1	4074.1
45°	33102.5	29732.2	16845.0	7315.2	4371.1	3344.5	3331.6	3564.0	3686.7	4003.0	4054.7
47.5°	33502.8	30281.0	16877.3	7108.6	4106.3	3144.3	3370.3	3473.6	3583.4	3861.0	4035.3
50°	33489.9	30623.2	16806.3	6805.2	3912.6	2918.3	3292.8	3409.0	3518.8	3802.9	3873.9
52.5°	33580.3	31901.6	17458.4	6320.9	3564.0	2627.8	3034.6	3292.8	3428.4	3667.3	3815.8
55°	33535.1	32631.2	18104.1	5959.4	3073.3	2453.5	2815.0	3118.5	3312.2	3564.0	3635.0
57.5°	30629.7	28841.2	16754.7	5281.4	2543.9	2246.9	2505.1	2937.7	3183.1	3441.3	3531.7
60°	25025.4	22229.8	13816.9	3886.8	2091.9	2066.1	2330.8	2879.6	2982.9	3208.9	3363.8
62.5°	23127.2	19498.7	10956.7	2970.0	1788.5	1891.8	2150.0	2602.0	2763.4	3041.0	3183.1
65°	18097.6	12951.8	6785.8	2008.0	1575.4	1698.1	1943.4	2279.1	2543.9	2802.1	2970.0
67.5°	10717.8	7076.3	3357.4	1407.5	1375.2	1504.4	1756.2	2008.0	2311.4	2595.5	2679.5
70°	5836.7	3480.1	1433.3	1071.8	1168.6	1284.8	1530.2	1704.5	1995.1	2214.6	2356.6
72.5°	1872.4	1058.9	716.7	794.2	891.0	1026.6	1175.1	1388.2	1594.8	1723.9	1840.1
75°	452.0	445.5	510.1	555.3	645.7	749.0	871.6	981.4	1142.8	1265.5	1368.8
77.5°	316.4	342.2	393.8	458.4	490.7	529.4	606.9	690.8	761.9	852.3	916.8
80°	245.3	264.7	303.5	335.7	368.0	400.3	439.0	471.3	516.5	574.6	606.9
82.5°	232.4	245.3	284.1	303.5	290.5	284.1	309.9	322.8	329.3	348.7	368.0
85°	19.4	0.0	12.9	45.2	109.8	161.4	174.3	174.3	167.9	180.8	180.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	25.8	19.4
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°	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6
2.5°	17458.4	17238.9	17322.8	17426.1	17277.6	16935.4	17025.8	16987.1	17335.7	17309.9	17658.6
5°	14636.9	14294.7	14333.5	14837.1	14675.7	14850.0	14501.3	14456.1	14520.7	14553.0	14611.1
7.5°	11202.1	11156.9	11544.2	11970.4	12170.5	11963.9	11621.7	11544.2	11473.2	11331.2	11654.0
10°	9142.4	9155.3	9129.5	9452.3	9678.3	9633.1	9426.5	9400.7	9265.1	9213.4	9394.2
12.5°	8161.0	7986.7	7902.8	7799.5	7973.8	8090.0	7999.6	7935.1	7941.5	8006.1	8031.9
15°	7211.9	7102.2	6921.4	6805.2	6889.1	6831.0	6798.7	6927.8	6895.6	6882.6	7037.6
17.5°	6146.6	6237.0	6224.1	6094.9	6204.7	6159.5	6153.1	6062.7	5940.0	5849.6	5901.3
20°	5442.8	5610.7	5739.8	5746.3	5804.4	5797.9	5701.1	5423.5	5333.1	5313.7	5326.6
22.5°	5191.0	5281.4	5436.4	5655.9	5655.9	5552.6	5436.4	5113.6	5029.6	4939.2	4900.5
25°	4990.9	5165.2	5365.4	5391.2	5494.5	5397.6	5210.4	5049.0	4874.7	4752.0	4752.0
27.5°	4887.6	5081.3	5229.8	5275.0	5417.0	5339.5	5145.8	4939.2	4732.6	4726.2	4616.4
30°	4842.4	5023.2	5120.0	5229.8	5294.3	5171.7	5113.6	4894.0	4687.4	4635.8	4455.0
32.5°	4706.8	4965.1	5145.8	5120.0	5171.7	5120.0	5036.1	4855.3	4622.9	4506.6	4487.3
35°	4551.8	4810.1	5003.8	5139.4	5171.7	5061.9	5010.3	4764.9	4448.5	4390.4	4190.3
37.5°	4467.9	4622.9	4861.8	5081.3	5126.5	5068.4	4894.0	4642.2	4325.9	4261.3	4087.0
40°	4364.6	4564.8	4752.0	4932.8	5068.4	4926.3	4726.2	4480.8	4338.8	4145.1	4093.4
42.5°	4287.1	4513.1	4668.1	4868.2	5023.2	4835.9	4603.5	4435.6	4235.5	4106.3	3957.8
44°	4261.3	4467.9	4571.2	4816.6	4945.7	4803.6	4610.0	4435.6	4203.2	4087.0	3957.8
45°	4170.9	4455.0	4564.8	4784.3	4894.0	4777.8	4532.5	4358.1	4190.3	4048.2	3912.6
47.5°	4080.5	4274.2	4461.5	4635.8	4713.3	4674.5	4467.9	4254.8	4054.7	3970.8	3841.6
50°	4054.7	4248.4	4422.7	4584.1	4674.5	4597.0	4409.8	4203.2	3970.8	3835.2	3725.4
52.5°	3925.6	4164.5	4358.1	4409.8	4526.0	4480.8	4338.8	4112.8	3893.3	3777.1	3686.7
55°	3738.3	3990.1	4254.8	4319.4	4487.3	4416.3	4203.2	3990.1	3802.9	3628.6	3512.3
57.5°	3667.3	3912.6	4170.9	4254.8	4358.1	4241.9	4190.3	3964.3	3667.3	3576.9	3396.1
60°	3486.5	3796.4	4009.5	4203.2	4209.6	4177.4	4087.0	3828.7	3583.4	3415.5	3286.4
62.5°	3344.5	3635.0	3802.9	3983.7	4093.4	4003.0	3912.6	3673.8	3409.0	3221.8	3073.3
65°	3137.9	3402.6	3544.6	3654.4	3777.1	3764.1	3609.2	3434.9	3157.2	3008.7	2866.7
67.5°	2821.5	3053.9	3247.6	3350.9	3428.4	3409.0	3292.8	3170.1	2886.1	2737.6	2634.3
70°	2440.6	2679.5	2802.1	2860.2	2937.7	2976.5	2886.1	2828.0	2576.1	2382.5	2285.6
72.5°	1962.8	2117.7	2298.5	2350.2	2382.5	2408.3	2408.3	2356.6	2098.4	2020.9	1853.0
75°	1446.3	1568.9	1704.5	1704.5	1762.6	1769.1	1782.0	1749.7	1556.0	1452.7	1414.0
77.5°	981.4	1071.8	1181.5	1226.7	1265.5	1259.0	1252.6	1162.2	1058.9	1013.7	974.9
80°	639.2	729.6	781.2	839.3	878.1	871.6	884.5	820.0	774.8	697.3	710.2
82.5°	380.9	452.0	503.6	574.6	574.6	594.0	594.0	574.6	529.4	490.7	490.7
85°	180.8	238.9	271.2	316.4	342.2	348.7	309.9	264.7	219.5	200.2	219.5
87.5°	32.3	45.2	64.6	58.1	71.0	64.6	64.6	64.6	64.6	51.7	58.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6	19724.6
2.5°	17529.4	17852.3	18078.2	18452.7	19098.4	19614.9	20144.3	20538.2	20583.4	20699.6
5°	14824.2	14998.5	15573.1	16322.1	16851.5	17723.1	18284.8	19305.0	19685.9	20092.7
7.5°	11576.5	11860.6	12628.9	13132.5	14294.7	15385.9	16515.8	17774.8	18278.4	18336.5
10°	9762.2	10175.5	10698.4	11505.5	12138.2	13352.1	14759.6	16160.7	16722.4	16819.2
12.5°	8574.2	9103.7	9801.0	10382.1	10989.0	12047.9	13397.3	15127.6	15857.2	16296.2
15°	7431.4	7980.3	8748.6	9555.6	10091.5	11357.0	12945.3	14895.2	15844.3	16231.7
17.5°	6256.4	6766.4	7399.2	8270.8	9349.0	10769.5	12874.3	15670.0	16709.5	17161.4
20°	5249.1	5533.2	6269.3	7166.7	8516.1	10169.0	12900.1	16812.8	18336.5	18536.6
22.5°	4855.3	4919.9	5210.4	6036.8	7515.4	9555.6	13358.5	18433.3	20163.7	20822.3
25°	4551.8	4538.9	4616.4	5171.7	6785.8	9316.7	13810.5	19924.8	22191.0	22907.7
27.5°	4384.0	4254.8	4261.3	4784.3	6269.3	8929.4	14391.6	21635.8	24489.6	24805.9
30°	4300.0	4274.2	4196.7	4409.8	5707.6	8348.3	14488.4	23320.9	25845.4	26303.8
32.5°	4248.4	3996.6	3899.7	3977.2	5178.1	7715.5	14850.0	24431.4	27524.1	27324.0
35°	3990.1	3764.1	3699.6	3777.1	4803.6	7360.4	14611.1	25399.9	28783.1	29118.9
37.5°	3893.3	3693.1	3564.0	3499.4	4455.0	7063.4	14488.4	26891.4	30003.4	30810.5
40°	3802.9	3589.8	3434.9	3370.3	4183.8	6669.6	14449.7	28040.6	31410.9	31895.2
42.5°	3699.6	3564.0	3389.7	3273.5	3854.5	6275.7	14004.2	28395.7	31843.5	32366.5
44°	3667.3	3460.7	3279.9	3241.2	3725.4	6075.6	13913.8	28718.6	32218.0	33012.2
45°	3635.0	3441.3	3234.7	3183.1	3680.2	5965.8	13791.1	28796.0	32837.8	32986.3
47.5°	3544.6	3422.0	3221.8	3079.8	3583.4	5726.9	13423.1	28357.0	32205.1	32230.9
50°	3473.6	3331.6	3125.0	2847.3	3454.2	5526.8	13591.0	28195.6	30681.4	30739.5
52.5°	3396.1	3183.1	3066.8	2589.1	3241.2	5358.9	13946.1	28925.2	30855.7	30842.8
55°	3305.7	3073.3	2789.2	2369.5	2886.1	5145.8	14804.8	30365.0	32469.8	32689.3
57.5°	3163.7	2963.5	2556.8	2175.8	2479.3	4739.1	14527.2	27608.1	29874.3	29913.0
60°	2976.5	2789.2	2317.9	2027.3	2033.8	3738.3	12990.5	21513.1	23572.7	24134.4
62.5°	2795.7	2692.4	2117.7	1814.3	1730.3	2976.5	10982.5	17878.1	20234.7	20699.6
65°	2582.6	2330.8	1943.4	1652.9	1485.0	2085.5	7780.1	13358.5	15786.2	16412.5
67.5°	2311.4	2040.3	1711.0	1452.7	1271.9	1394.6	4016.0	7592.9	10052.8	10420.8
70°	2020.9	1769.1	1439.8	1226.7	1026.6	962.0	1769.1	3622.1	5494.5	5875.4
72.5°	1659.3	1426.9	1149.3	968.5	768.3	665.0	594.0	968.5	1949.9	2266.2
75°	1200.9	1039.5	865.2	690.8	542.3	426.1	348.7	290.5	322.8	348.7
77.5°	884.5	755.4	639.2	490.7	380.9	303.5	238.9	180.8	174.3	167.9
80°	690.8	613.4	510.1	393.8	297.0	226.0	167.9	122.7	109.8	109.8
82.5°	542.3	503.6	419.7	322.8	245.3	180.8	122.7	83.9	71.0	71.0
85°	206.6	206.6	303.5	264.7	187.2	129.1	83.9	45.2	38.7	38.7
87.5°	51.7	51.7	51.7	51.7	45.2	38.7	38.7	19.4	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)