

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: P454315

Luminaire Tested: **GALN-SA5B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22603 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 204
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

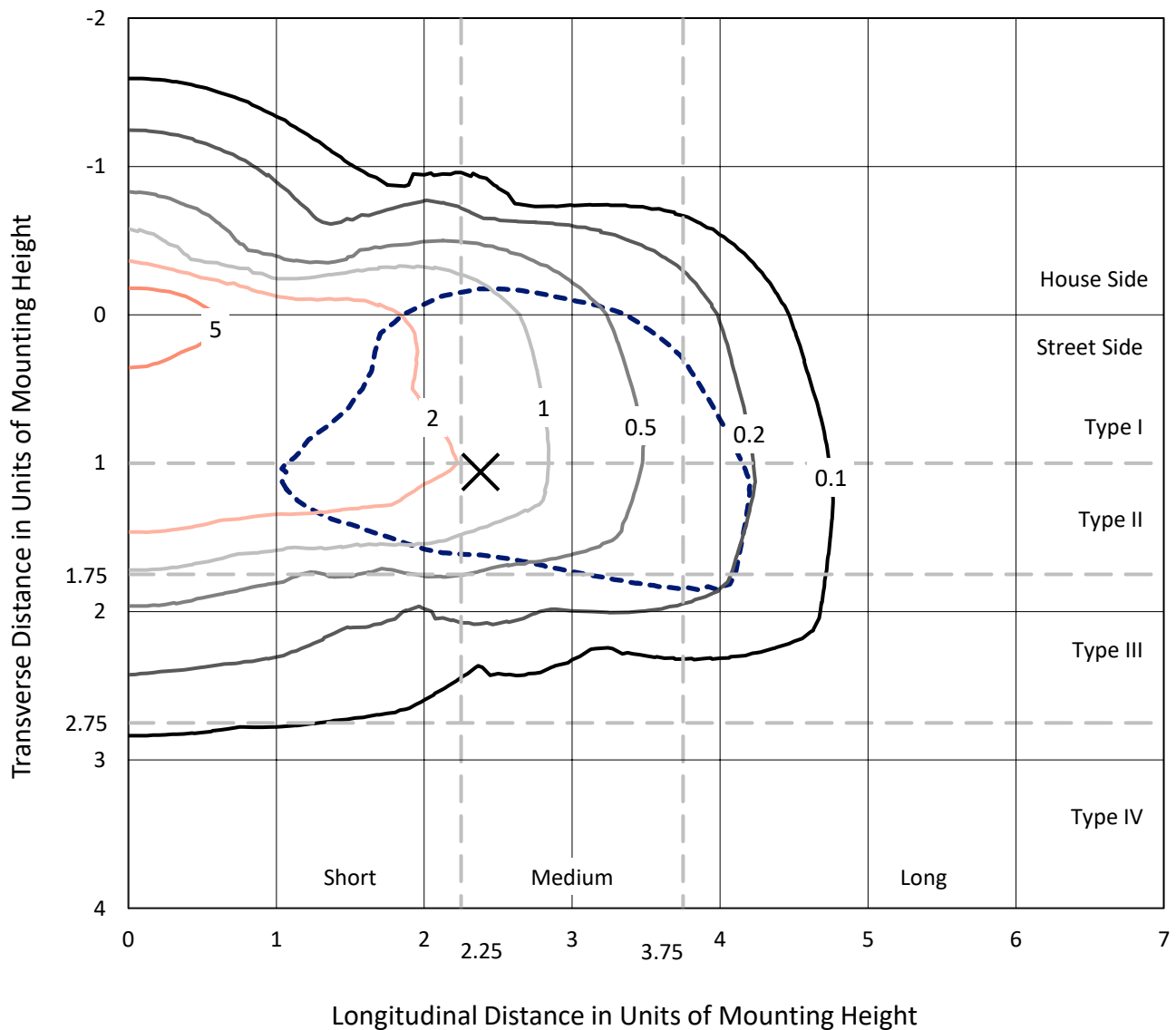


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

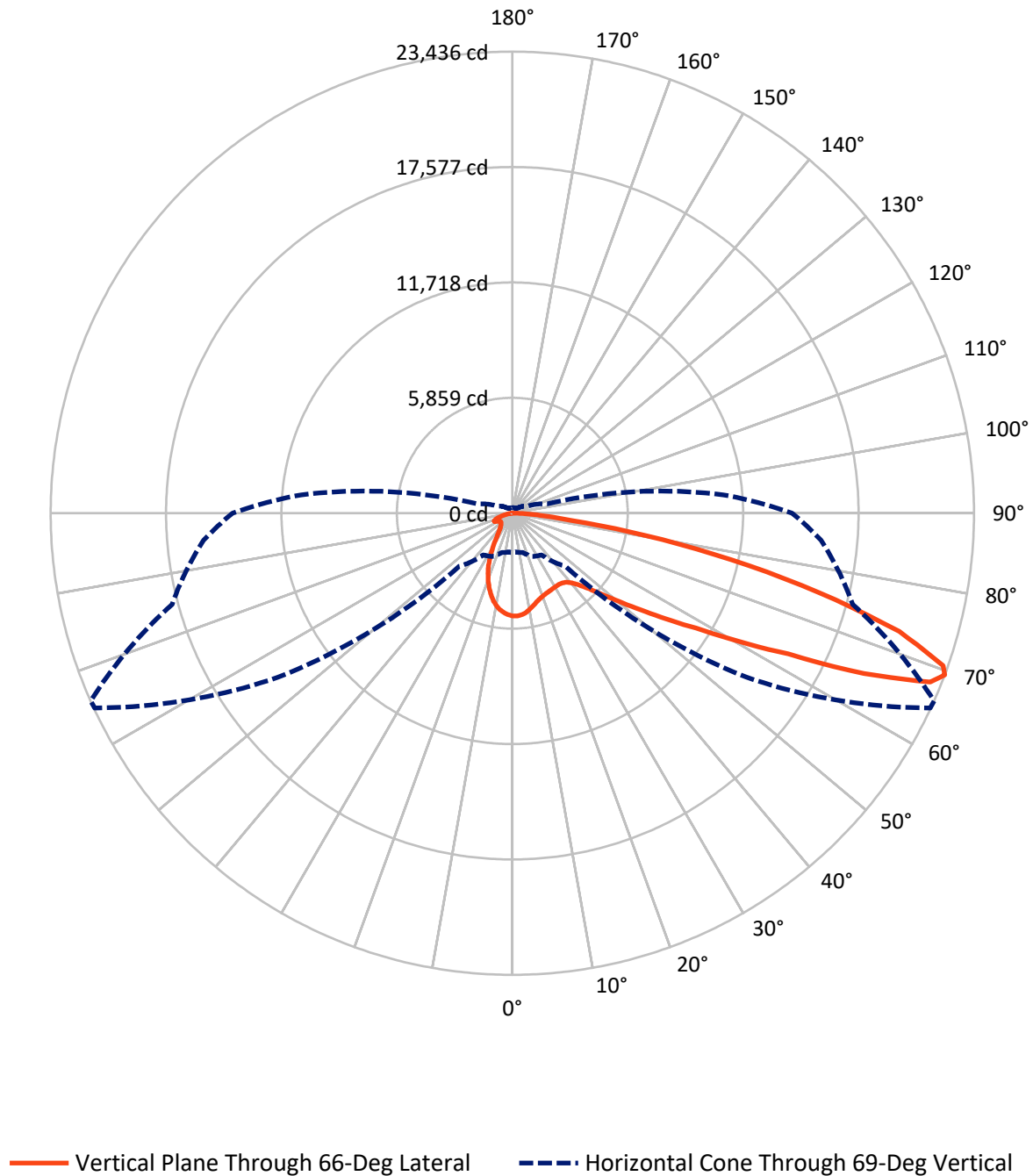


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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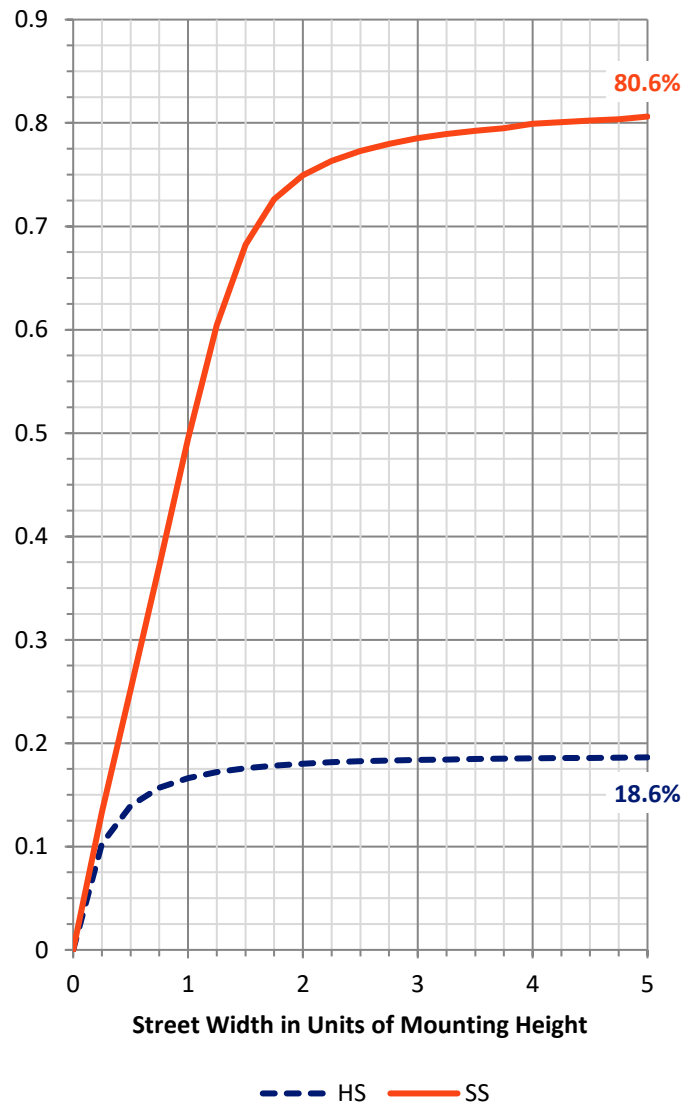
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4250.8	0.0	4250.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18352.2	0.0	18352.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	22603.0	0.0	22603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.3	2.0
10°-20°	1075.1	4.8
20°-30°	1463.6	6.5
30°-40°	1966.8	8.7
40°-50°	2936.8	13.0
50°-60°	4671.4	20.7
60°-70°	5745.6	25.4
70°-80°	3738.3	16.5
80°-90°	552.0	2.4
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°	22603.0	100.0
0°-180°	22603.0	100.0

Coefficient of Utilization



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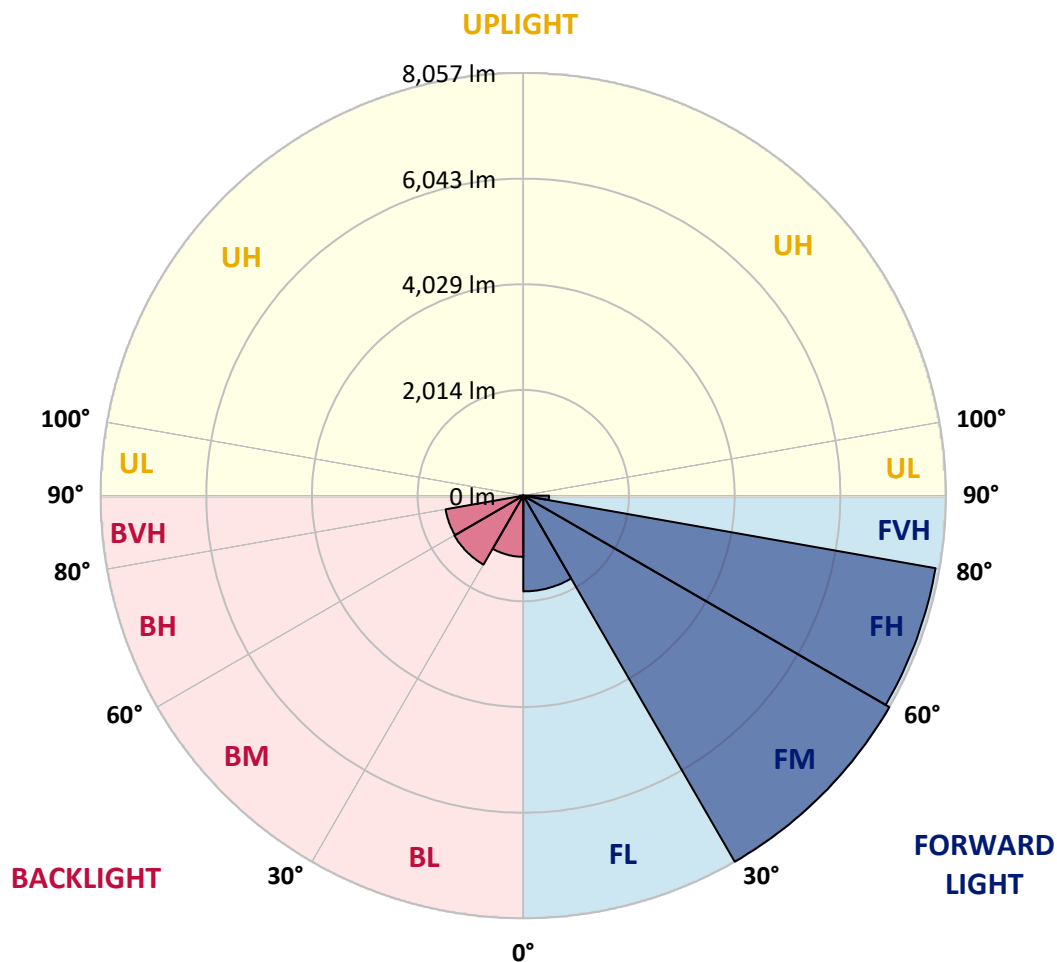
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.2	8.1			
FM	(30°-60°)	8057.3	35.6			
FH	(60°-80°)	7979.0	35.3			G4/12000
FVH	(80°-90°)	490.8	2.2			G3/500
BL	(0°-30°)	1166.9	5.2	B3/2500		
BM	(30°-60°)	1517.7	6.7	B2/2500		
BH	(60°-80°)	1505.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	61.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7
2.5°	5036.9	5056.9	5079.5	5104.5	5152.1	5178.4	5197.1	5218.4	5220.9	5232.2	5223.4
5°	4665.2	4688.9	4722.7	4770.3	4841.6	4953.0	5068.2	5162.1	5173.3	5225.9	5240.9
7.5°	4354.7	4368.5	4396.0	4472.4	4573.8	4697.7	4865.4	5055.7	5083.2	5208.4	5252.2
10°	4101.9	4115.6	4148.2	4227.0	4327.2	4482.4	4666.4	4916.7	4939.3	5154.6	5254.7
12.5°	3912.9	3925.4	3960.4	4038.0	4153.2	4298.4	4501.2	4766.5	4799.1	5083.2	5230.9
15°	3768.9	3792.7	3821.5	3885.3	4006.7	4146.9	4343.5	4628.9	4655.1	5008.1	5214.7
17.5°	3707.6	3718.9	3738.9	3797.7	3886.6	4024.3	4222.0	4521.2	4552.5	4955.5	5210.9
20°	3710.1	3721.4	3725.1	3757.7	3821.5	3940.4	4135.7	4436.1	4473.6	4909.2	5217.2
22.5°	3795.2	3796.5	3782.7	3771.4	3796.5	3895.3	4074.3	4372.2	4416.1	4889.2	5222.2
25°	3926.6	3949.2	3929.1	3876.6	3830.3	3877.8	4050.6	4337.2	4378.5	4860.4	5215.9
27.5°	4139.4	4143.2	4126.9	4055.6	3935.4	3900.4	4040.5	4310.9	4346.0	4839.1	5184.6
30°	4424.8	4413.6	4398.5	4319.7	4130.7	3986.7	4061.8	4287.1	4323.4	4807.8	5147.1
32.5°	4714.0	4749.0	4735.2	4642.6	4397.3	4154.4	4130.7	4284.6	4314.7	4784.1	5105.8
35°	5020.6	5036.9	5102.0	5054.4	4802.8	4426.1	4259.6	4323.4	4347.2	4785.3	5077.0
37.5°	5261.0	5304.8	5457.5	5498.8	5262.2	4785.3	4468.6	4433.6	4443.6	4846.6	5088.2
40°	5551.4	5626.5	5823.0	5992.0	5836.8	5252.2	4824.1	4637.6	4650.1	4994.4	5162.1
42.5°	5919.4	5971.9	6236.1	6465.1	6440.1	5869.3	5254.7	4971.8	4978.1	5288.5	5368.6
45°	6350.0	6425.1	6721.7	7065.9	7124.8	6567.8	5876.8	5477.5	5473.8	5745.4	5754.1
47.5°	6900.7	6947.0	7241.2	7616.7	7854.5	7445.2	6631.6	6203.5	6163.5	6411.3	6339.9
50°	7407.7	7480.3	7703.1	8113.6	8705.7	8472.9	7624.2	7144.8	7050.9	7282.5	7162.3
52.5°	7620.5	7696.8	7884.6	8394.0	9435.4	9802.2	8884.7	8267.6	8111.1	8288.9	8245.1
55°	7251.2	7350.1	7525.3	8144.9	9755.9	11335.6	10584.5	9565.6	9451.7	9375.4	9387.9
57.5°	6258.6	6352.5	6589.0	7272.5	9372.9	12448.3	13011.6	11234.2	10990.1	10638.3	10698.4
60°	4764.0	4822.9	4945.5	5702.8	8237.6	12737.5	15767.9	13343.3	13188.1	11896.3	11938.9
62.5°	3383.4	3449.7	3534.8	3912.9	6030.8	11922.6	17925.8	16288.6	15734.1	13199.4	13158.1
65°	2747.5	2702.5	2805.1	2981.6	3538.6	9240.2	18411.5	20376.7	19613.2	14915.5	14342.2
67.5°	2259.3	2211.8	2313.2	2627.4	2691.2	5363.6	16661.6	23030.3	22877.6	16781.8	15545.1
69°	2000.2	1975.2	2064.1	2422.1	2583.5	3809.0	14514.9	23399.6	23435.9	17882.0	15730.3
70°	1802.5	1812.5	1898.9	2318.2	2534.7	3140.6	12405.8	22890.2	23198.1	18431.5	15530.1
72.5°	1326.8	1348.1	1468.3	1920.1	2488.4	2664.9	7382.6	19993.7	20538.2	18464.1	14207.0
75°	927.5	917.5	1023.9	1445.7	2350.7	2641.1	4335.9	15462.5	16079.6	15959.4	11937.6
77.5°	607.1	623.4	708.5	1021.4	1977.7	2621.1	2826.4	10970.0	11370.6	10673.4	7060.9
80°	428.1	426.8	474.4	697.2	1467.0	2518.5	2314.4	6914.5	6813.1	4194.5	2094.1
82.5°	245.3	262.9	317.9	490.7	981.3	2216.8	2129.2	3307.0	3019.1	1195.4	707.2
85°	136.4	142.7	189.0	296.7	573.3	1669.8	1858.8	1504.6	1419.4	499.4	304.2
87.5°	43.8	47.6	78.9	150.2	260.4	788.6	1052.7	694.7	640.9	180.2	122.7
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°	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7	5219.7
2.5°	5227.2	5242.2	5202.1	5163.3	5128.3	5079.5	5035.7	4999.4	4974.3	4970.6	4958.1
5°	5244.7	5245.9	5169.6	5067.0	4966.8	4856.7	4742.8	4661.4	4585.0	4542.5	4521.2
7.5°	5257.2	5245.9	5108.3	4941.8	4749.0	4548.7	4348.5	4188.2	4064.3	4015.5	4034.3
10°	5252.2	5217.2	5015.6	4749.0	4468.6	4169.5	3881.6	3656.3	3449.7	3343.3	3345.8
12.5°	5224.7	5167.1	4877.9	4532.5	4120.7	3720.1	3279.5	2975.3	2736.3	2594.8	2551.0
15°	5200.9	5100.7	4716.5	4238.3	3726.4	3154.3	2617.3	2241.8	2041.6	1930.1	1928.9
17.5°	5175.9	5036.9	4540.0	3926.6	3273.2	2537.2	1974.0	1687.3	1593.4	1604.7	1585.9
20°	5149.6	4961.8	4356.0	3579.9	2721.2	1892.6	1478.3	1361.9	1388.2	1439.5	1447.0
22.5°	5119.5	4881.7	4158.2	3198.1	2140.4	1424.5	1199.1	1181.6	1249.2	1329.3	1340.6
25°	5073.2	4781.6	3909.1	2798.8	1651.0	1147.8	1050.2	1062.7	1129.0	1196.6	1204.2
27.5°	5008.1	4657.6	3657.5	2300.7	1240.5	985.1	960.1	976.3	1008.9	1050.2	1060.2
30°	4920.5	4517.4	3368.4	1870.1	993.9	903.7	893.7	902.5	921.3	938.8	943.8
32.5°	4832.9	4382.3	3076.7	1432.0	886.2	849.9	839.9	839.9	839.9	842.4	843.7
35°	4751.5	4254.6	2763.8	1115.3	829.9	807.4	793.6	778.6	776.1	767.3	767.3
37.5°	4706.5	4138.2	2430.8	933.8	788.6	772.3	753.5	728.5	714.7	716.0	713.5
40°	4715.2	4061.8	2127.9	831.1	754.8	737.3	708.5	679.7	670.9	670.9	668.4
42.5°	4814.1	4036.8	1837.5	777.3	722.2	702.2	665.9	639.6	634.6	633.4	635.9
45°	5041.9	4098.1	1577.2	742.3	694.7	664.7	628.4	604.6	599.6	599.6	598.3
47.5°	5486.3	4297.1	1390.7	719.7	674.7	635.9	598.3	574.5	565.8	563.3	563.3
50°	6177.2	4729.0	1251.7	699.7	649.6	609.6	570.8	543.2	529.5	528.2	527.0
52.5°	7137.3	5402.4	1197.9	684.7	622.1	582.0	539.5	513.2	495.7	491.9	489.4
55°	8260.1	6342.5	1271.7	673.4	593.3	550.8	506.9	479.4	463.1	455.6	454.4
57.5°	9560.6	7471.5	1552.1	658.4	567.0	517.0	474.4	446.9	429.3	420.6	418.1
60°	10728.5	8631.8	2041.6	649.6	544.5	480.7	436.8	411.8	395.5	386.8	385.5
62.5°	12011.5	9738.4	2626.1	673.4	534.5	445.6	401.8	379.3	365.5	356.7	356.7
65°	13382.1	10846.1	3012.9	753.5	549.5	418.1	364.2	345.5	333.0	326.7	325.4
67.5°	14305.9	11229.2	2482.2	836.1	587.1	388.0	327.9	312.9	305.4	299.2	299.2
69°	14205.7	10744.7	1831.3	857.4	598.3	373.0	307.9	296.7	286.6	284.1	281.6
70°	13889.1	10192.7	1534.6	843.7	589.6	359.2	295.4	281.6	272.9	270.4	269.1
72.5°	12370.7	8839.6	1142.8	733.5	501.9	311.7	261.6	249.1	241.6	237.8	237.8
75°	10277.8	7224.9	892.5	583.3	393.0	262.9	224.1	214.0	207.8	205.3	204.0
77.5°	5760.4	4034.3	640.9	456.9	297.9	212.8	187.8	179.0	172.7	170.2	170.2
80°	1604.7	1152.8	376.8	301.7	202.8	161.5	149.0	142.7	133.9	127.7	131.4
82.5°	604.6	499.4	215.3	181.5	128.9	107.6	103.9	98.9	95.1	86.4	86.4
85°	294.2	242.8	137.7	96.4	71.3	56.3	53.8	51.3	48.8	42.6	43.8
87.5°	101.4	107.6	60.1	35.0	21.3	13.8	11.3	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)