

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640244

Luminaire Tested: GWS-SA5D-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23503.8 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

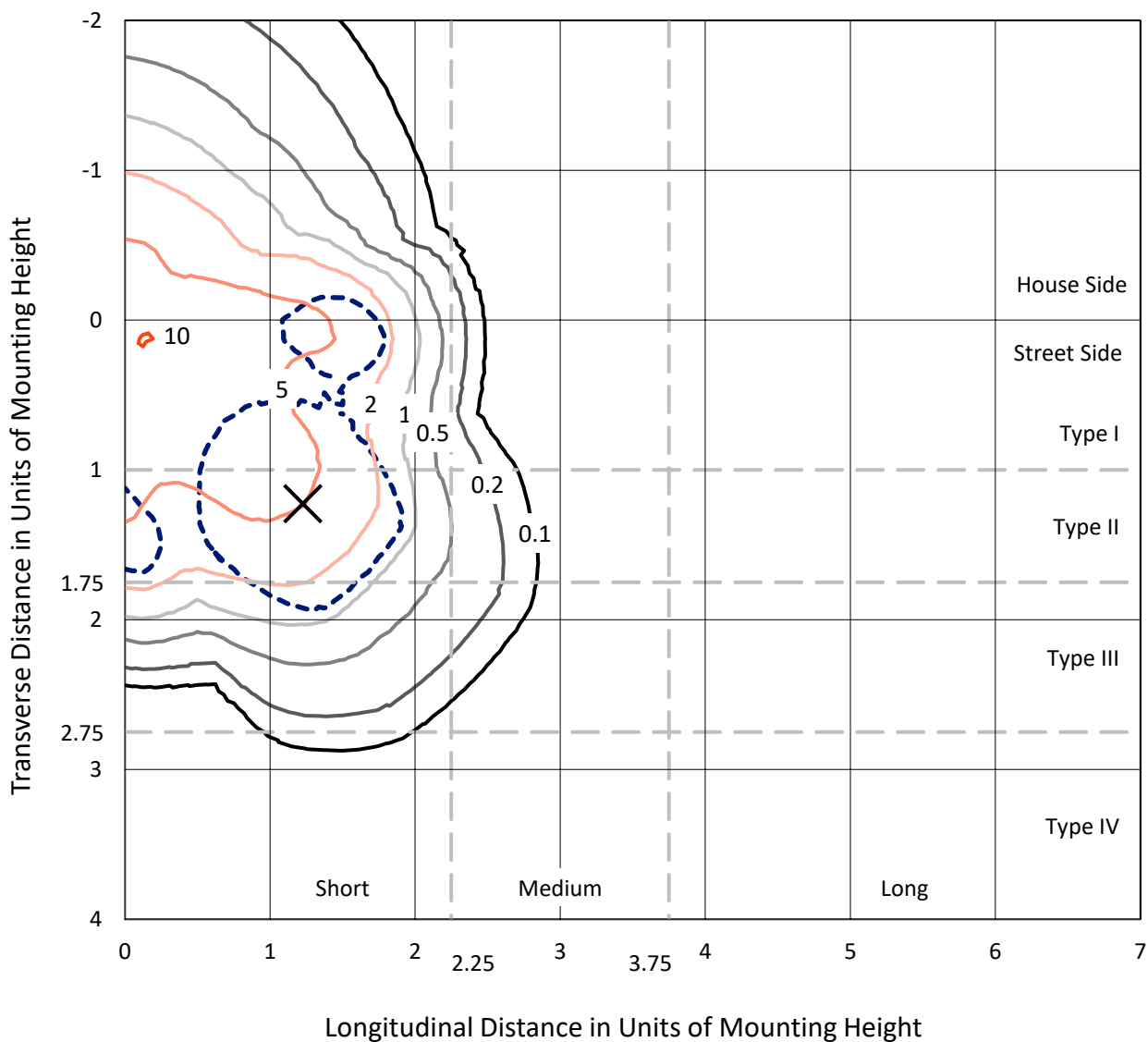


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Iso-Footcandle Lines of Horizontal Illumination

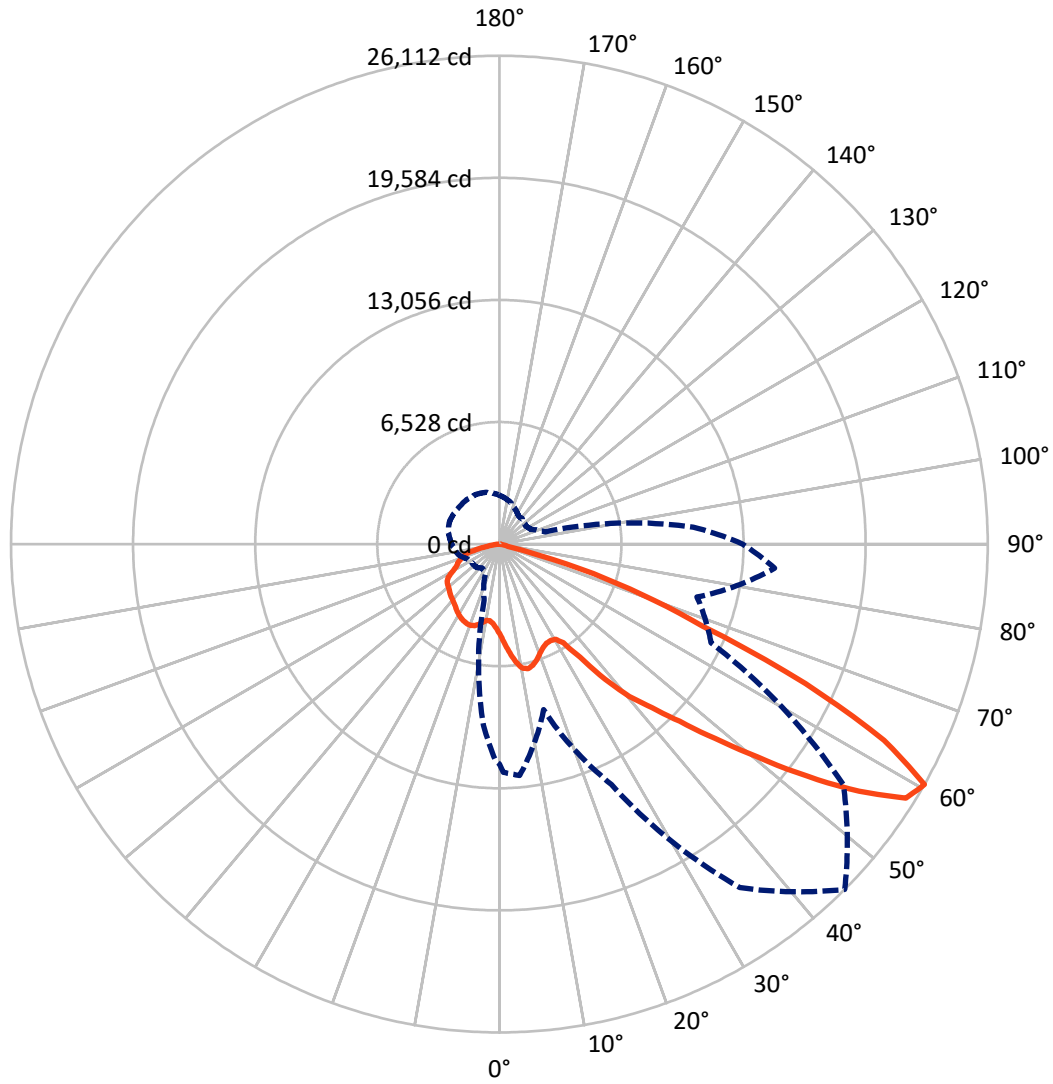
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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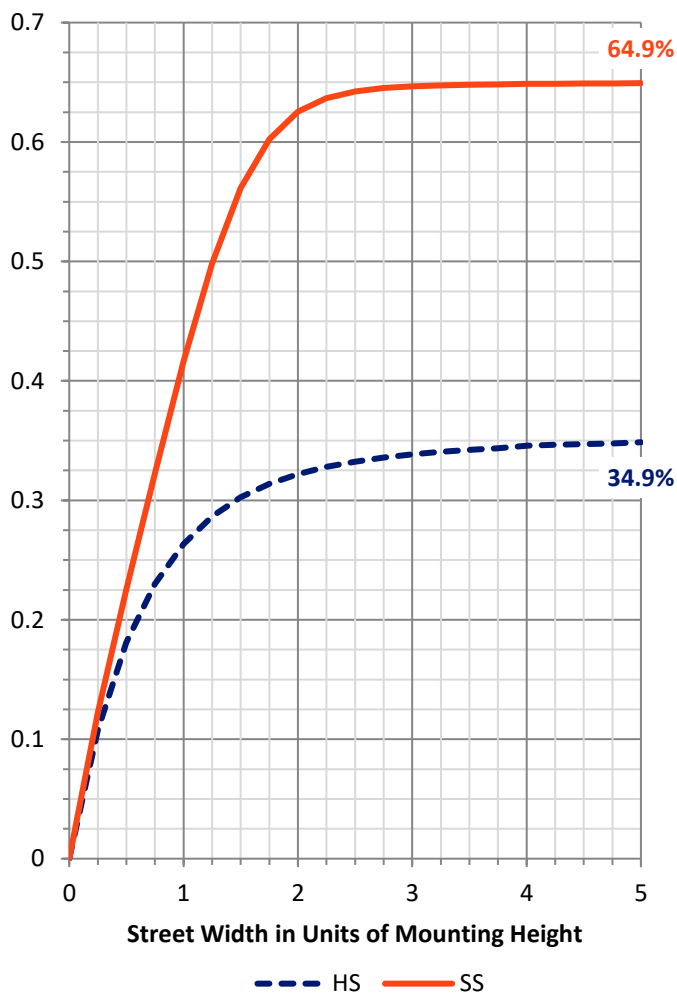
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8238.9	0.0	8238.9
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	15264.9	0.0	15264.9
	% Fixture	64.9	0.0	64.9
Total	Lumens	23503.8	0.0	23503.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	2.0
10°-20°	1488.6	6.3
20°-30°	2418.1	10.3
30°-40°	3410.3	14.5
40°-50°	4712.9	20.1
50°-60°	6066.9	25.8
60°-70°	3844.0	16.4
70°-80°	986.4	4.2
80°-90°	105.5	0.4
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°	23503.8	100.0
0°-180°	23503.8	100.0

Coefficient of Utilization



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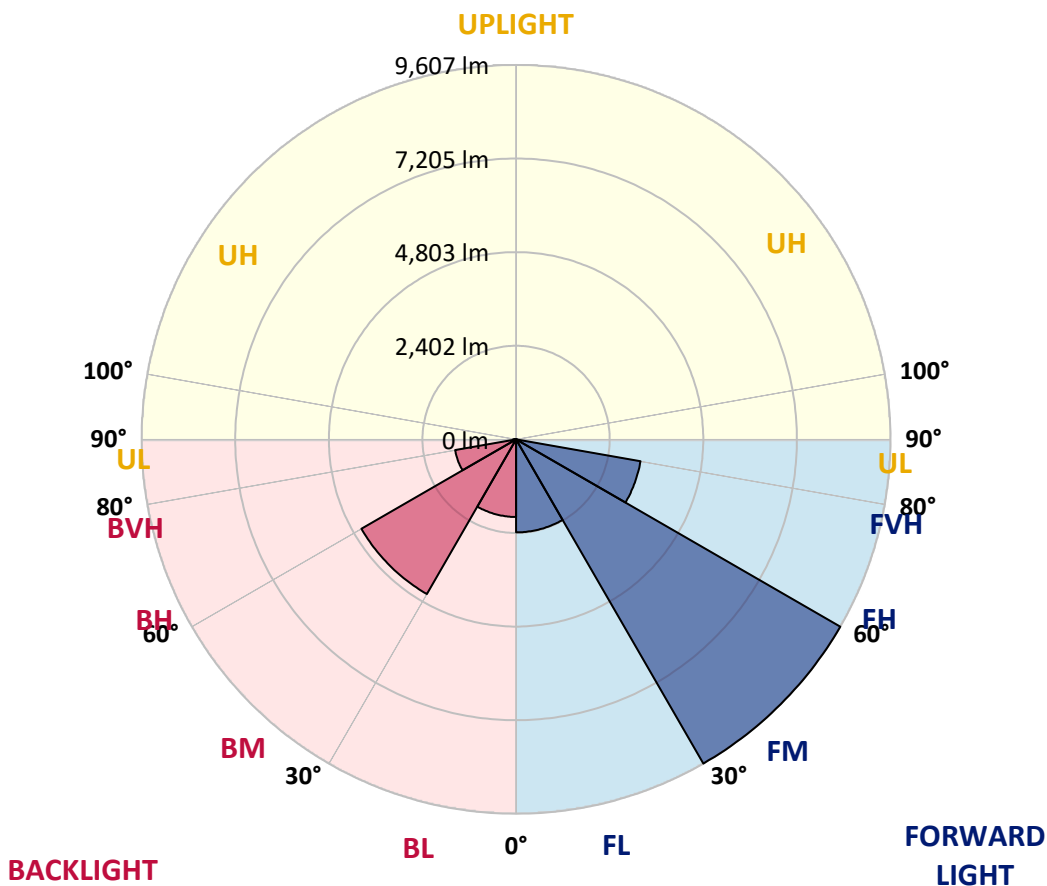
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2386.5	10.2			
FM (30°-60°)	9607.0	40.9			
FH (60°-80°)	3242.7	13.8			G2/5000
FVH (80°-90°)	28.6	0.1			G1/100
BL (0°-30°)	1991.3	8.5	B3/2500		
BM (30°-60°)	4583.1	19.5	B3/5000		
BH (60°-80°)	1587.7	6.8	B3/2500		G3/2500
BVH (80°-90°)	76.8	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4
2.5°	5050.2	5084.6	5106.2	5147.1	5220.3	5261.2	5306.5	5256.9	5269.9	5263.4	5183.7
5°	5349.5	5390.5	5446.5	5567.1	5702.7	5778.1	5849.2	5838.4	5771.6	5659.7	5580.0
7.5°	5629.5	5676.9	5773.8	5969.8	6170.1	6286.4	6372.5	6316.5	6260.5	6083.9	5883.6
10°	5849.2	5877.2	6008.5	6271.3	6503.9	6635.2	6740.8	6727.8	6650.3	6452.2	6183.0
12.5°	6055.9	6075.3	6217.4	6480.2	6689.1	6747.2	6833.4	6861.4	6835.5	6686.9	6422.0
15°	6277.7	6314.4	6445.7	6646.0	6740.8	6680.5	6710.6	6788.1	6861.4	6861.4	6618.0
17.5°	6484.5	6516.8	6650.3	6736.5	6646.0	6486.6	6495.3	6594.3	6768.8	6951.8	6796.8
20°	6667.5	6697.7	6829.1	6747.2	6460.8	6228.2	6221.7	6342.3	6624.5	7010.0	6988.4
22.5°	6867.8	6910.9	7020.7	6755.8	6288.5	5993.5	5991.3	6116.2	6497.4	7068.1	7208.1
25°	7152.1	7218.9	7274.9	6831.2	6195.9	5840.6	5868.6	5987.0	6456.5	7162.9	7533.3
27.5°	7574.2	7628.0	7623.7	6988.4	6191.6	5778.1	5836.3	5974.1	6529.7	7330.9	7875.7
30°	8030.8	8058.8	8013.5	7208.1	6290.7	5816.9	5903.0	6066.7	6714.9	7608.7	8379.7
32.5°	8536.9	8571.3	8485.2	7537.6	6521.1	6103.3	6292.8	6372.5	6975.5	8009.2	8913.7
35°	9118.3	9185.1	9006.4	7972.6	7199.5	7147.8	7423.5	7320.1	7529.0	8483.0	9484.5
37.5°	9730.0	9732.1	9475.8	8616.6	8530.4	8618.7	9170.0	8847.0	8702.7	9010.7	10065.9
40°	10249.0	10236.1	9841.9	9484.5	9689.0	10040.1	10705.5	10210.2	9831.2	9719.2	10548.3
42.5°	10768.0	10720.6	10322.2	10035.8	10488.0	11209.5	11961.1	11353.8	10554.8	10363.1	11024.3
45°	11431.3	11416.2	10936.0	10255.4	11209.5	12518.9	13516.0	12531.8	10983.4	10737.8	11816.8
47.5°	12501.6	12428.4	11534.7	10238.2	11885.7	14263.3	15523.1	14015.6	11282.7	10746.5	13096.0
50°	13548.3	13457.8	12249.7	10236.1	12583.5	16072.3	17892.1	15818.2	11588.5	10798.1	14396.8
52.5°	14605.7	14605.7	13423.4	10479.4	13315.7	18092.4	20629.3	18064.4	12109.7	11474.4	15996.9
55°	15234.6	15402.5	14743.5	10890.8	14172.8	20470.0	23336.4	20489.3	12915.1	12695.5	17474.3
57.5°	14435.6	14750.0	14655.2	10604.3	14678.9	22216.5	25632.1	22328.5	13313.6	12839.8	17252.5
60°	11763.0	12200.1	12417.7	9157.1	14179.3	22419.0	26112.4	22449.1	12490.9	10933.8	14778.0
62.5°	7819.7	8179.4	8511.0	6542.6	12275.5	20168.5	23095.2	20174.9	10432.0	8160.0	10238.2
65°	3835.6	4102.6	4460.1	3867.9	9590.0	16851.9	18006.2	16302.7	7546.2	4567.8	5222.5
67.5°	1003.6	1079.0	1128.5	1501.1	6870.0	12107.5	11743.6	11924.5	4847.8	1492.4	1365.4
70°	521.2	525.5	523.3	620.2	4643.2	7694.8	8093.2	7488.1	3383.3	624.5	538.4
72.5°	372.6	374.7	368.3	417.8	2241.9	4408.4	4567.8	4518.3	1772.4	370.4	368.3
75°	243.4	245.5	241.2	245.5	338.1	501.8	463.0	486.7	295.0	234.7	234.7
77.5°	144.3	146.4	144.3	148.6	144.3	144.3	133.5	133.5	127.1	127.1	129.2
80°	96.9	96.9	94.8	99.1	90.5	90.5	86.1	84.0	77.5	75.4	75.4
82.5°	58.1	60.3	58.1	58.1	53.8	53.8	49.5	47.4	40.9	40.9	38.8
85°	30.2	30.2	28.0	28.0	23.7	21.5	17.2	17.2	12.9	10.8	10.8
87.5°	4.3	4.3	2.2	2.2	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°	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4
2.5°	5162.2	5119.1	5054.5	4992.0	4933.9	4873.6	4804.7	4733.6	4673.3	4610.9	4578.6
5°	5474.4	5386.2	5218.2	5069.6	4936.0	4826.2	4707.8	4606.5	4511.8	4434.3	4395.5
7.5°	5756.6	5618.7	5364.6	5129.9	4949.0	4798.2	4634.5	4483.8	4356.7	4262.0	4225.4
10°	6017.2	5853.5	5519.7	5222.5	5011.4	4843.4	4643.2	4438.6	4270.6	4145.7	4115.5
12.5°	6228.2	6040.8	5642.4	5297.9	5048.0	4867.1	4690.5	4513.9	4348.1	4186.6	4160.8
15°	6415.6	6193.8	5735.0	5345.2	5035.1	4804.7	4656.1	4634.5	4634.5	4451.5	4399.8
17.5°	6577.1	6333.7	5810.4	5366.8	4953.3	4619.5	4529.0	4716.4	4927.4	4796.1	4679.8
20°	6762.3	6467.3	5872.9	5366.8	4802.5	4384.7	4376.1	4694.8	5007.1	5009.3	4886.5
22.5°	6949.7	6622.3	5946.1	5347.4	4595.8	4113.4	4272.7	4608.7	4886.5	5005.0	4921.0
25°	7253.3	6837.7	6062.4	5332.3	4354.6	3928.2	4180.1	4494.6	4729.3	4854.2	4800.4
27.5°	7638.8	7122.0	6239.0	5356.0	4115.5	3818.3	4081.1	4346.0	4559.2	4669.0	4630.2
30°	8069.5	7449.3	6428.5	5396.9	3943.2	3762.3	3962.6	4175.8	4365.3	4475.2	4458.0
32.5°	8618.7	7804.6	6592.2	5340.9	3846.3	3734.3	3837.7	3990.6	4173.7	4242.6	4257.7
35°	9275.6	8196.6	6717.1	5121.3	3758.0	3704.2	3702.0	3796.8	3926.0	4035.8	4046.6
37.5°	9880.7	8655.3	6854.9	4744.4	3598.7	3628.8	3542.7	3598.7	3725.7	3835.6	3878.6
40°	10479.4	9120.5	7046.6	4264.1	3389.8	3460.8	3359.6	3398.4	3499.6	3643.9	3712.8
42.5°	11060.9	9540.4	7249.0	3773.1	3180.9	3226.1	3150.7	3189.5	3295.0	3475.9	3553.4
45°	11694.0	10109.0	7406.2	3310.1	3000.0	2980.6	2920.3	2976.3	3135.6	3333.8	3426.4
47.5°	12891.4	11004.9	7509.6	3002.1	2903.1	2763.1	2694.2	2814.8	2995.7	3195.9	3307.9
50°	14353.7	12301.4	7479.5	2806.1	2819.1	2539.1	2515.4	2674.8	2868.6	3077.5	3200.2
52.5°	15512.4	13574.1	7137.0	2618.8	2655.4	2397.0	2328.0	2560.6	2745.8	2959.0	3086.1
55°	16397.5	14002.7	6086.1	2397.0	2388.3	2293.6	2149.3	2442.2	2623.1	2821.2	2959.0
57.5°	15676.0	13048.7	4511.8	2091.1	2039.5	2089.0	1949.0	2241.9	2472.3	2668.3	2791.1
60°	13009.9	10404.0	2513.3	1852.1	1705.7	1826.3	1804.7	2030.8	2308.7	2515.4	2620.9
62.5°	8831.9	6928.1	1490.3	1464.4	1382.6	1554.9	1669.0	1817.6	2091.1	2259.1	2358.2
65°	4402.0	3366.1	990.7	1096.2	1106.9	1279.2	1494.6	1658.3	1886.6	2058.8	2157.9
67.5°	1277.1	1046.6	753.8	837.8	954.0	1091.9	1264.2	1458.0	1679.8	1884.4	2000.7
70°	551.3	557.8	598.7	697.8	811.9	954.0	1126.3	1315.8	1503.2	1660.4	1748.7
72.5°	389.8	404.9	450.1	551.3	659.0	794.7	967.0	1150.0	1285.7	1445.1	1537.7
75°	249.8	260.6	297.2	374.7	454.4	585.8	749.5	917.4	1057.4	1171.6	1259.9
77.5°	137.8	140.0	170.1	215.4	269.2	353.2	473.8	605.2	708.5	773.1	852.8
80°	79.7	79.7	94.8	122.8	155.1	206.7	273.5	338.1	400.6	441.5	480.3
82.5°	43.1	43.1	49.5	66.8	84.0	114.1	152.9	185.2	224.0	245.5	271.4
85°	12.9	12.9	17.2	23.7	30.2	43.1	60.3	77.5	94.8	109.8	124.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4
2.5°	4572.1	4541.9	4524.7	4503.2	4509.6	4490.3	4479.5	4485.9	4447.2	4485.9	4524.7
5°	4380.4	4337.3	4302.9	4274.9	4262.0	4236.1	4221.1	4221.1	4197.4	4236.1	4283.5
7.5°	4212.4	4178.0	4160.8	4143.5	4124.1	4100.5	4074.6	4066.0	4050.9	4091.8	4132.8
10°	4100.5	4104.8	4115.5	4139.2	4134.9	4119.8	4081.1	4059.5	4059.5	4106.9	4169.4
12.5°	4152.1	4197.4	4223.2	4266.3	4274.9	4262.0	4223.2	4206.0	4249.1	4320.1	4423.5
15°	4352.4	4382.6	4404.1	4438.6	4436.4	4425.6	4395.5	4408.4	4550.6	4688.4	4781.0
17.5°	4569.9	4535.5	4531.2	4552.7	4559.2	4546.2	4529.0	4587.2	4821.9	4951.1	4998.5
20°	4727.2	4608.7	4582.9	4591.5	4608.7	4602.2	4602.2	4697.0	4940.4	5000.7	4940.4
22.5°	4774.5	4606.5	4567.8	4569.9	4593.6	4595.8	4606.5	4705.6	4847.8	4849.9	4757.3
25°	4699.2	4537.6	4509.6	4513.9	4541.9	4539.8	4544.1	4600.1	4662.5	4636.7	4567.8
27.5°	4557.0	4417.0	4408.4	4432.1	4468.7	4449.3	4436.4	4451.5	4481.6	4449.3	4389.0
30°	4395.5	4277.0	4281.4	4326.6	4365.3	4333.0	4300.7	4309.4	4311.5	4277.0	4208.1
32.5°	4225.4	4137.1	4152.1	4199.5	4244.7	4210.3	4175.8	4171.5	4130.6	4089.7	4022.9
35°	4055.2	4020.8	4040.2	4078.9	4117.7	4089.7	4068.1	4055.2	3966.9	3906.6	3850.6
37.5°	3900.2	3926.0	3960.5	3984.2	3997.1	3994.9	3982.0	3951.9	3835.6	3764.5	3691.3
40°	3762.3	3842.0	3878.6	3889.4	3908.8	3904.5	3902.3	3859.2	3706.3	3631.0	3547.0
42.5°	3637.4	3749.4	3811.9	3822.6	3833.4	3835.6	3829.1	3766.6	3592.2	3503.9	3424.2
45°	3516.8	3663.3	3743.0	3732.2	3747.3	3747.3	3753.7	3671.9	3480.2	3389.8	3305.8
47.5°	3411.3	3583.6	3656.8	3643.9	3652.5	3659.0	3665.4	3570.7	3357.5	3271.3	3185.2
50°	3314.4	3497.4	3559.9	3564.2	3564.2	3579.3	3577.1	3484.5	3254.1	3161.5	3075.3
52.5°	3211.0	3409.1	3475.9	3503.9	3512.5	3519.0	3488.8	3381.2	3148.6	3036.6	2956.9
55°	3090.4	3318.7	3379.0	3415.6	3432.8	3428.5	3387.6	3277.8	3040.9	2928.9	2838.4
57.5°	2907.4	3124.9	3211.0	3228.2	3256.2	3239.0	3191.6	3099.0	2868.6	2756.6	2664.0
60°	2707.1	2864.3	2933.2	2948.3	2926.7	2933.2	2926.7	2838.4	2638.2	2549.9	2455.1
62.5°	2444.3	2584.3	2657.5	2676.9	2640.3	2664.0	2655.4	2545.6	2345.3	2252.7	2168.7
65°	2246.2	2399.1	2485.3	2496.0	2485.3	2496.0	2465.9	2332.3	2142.8	2048.1	1961.9
67.5°	2091.1	2248.4	2338.8	2369.0	2358.2	2356.0	2308.7	2153.6	1957.6	1854.2	1744.4
70°	1824.1	1961.9	2078.2	2151.4	2151.4	2110.5	2020.1	1875.8	1718.6	1630.3	1544.1
72.5°	1615.2	1789.6	1903.8	1979.2	1994.2	1970.5	1843.5	1690.6	1509.7	1421.4	1330.9
75°	1330.9	1501.1	1623.8	1722.9	1742.3	1716.4	1570.0	1419.2	1251.2	1165.1	1074.6
77.5°	889.4	990.7	1089.7	1180.2	1160.8	1178.0	1079.0	964.8	861.4	796.8	755.9
80°	501.8	568.6	598.7	648.2	648.2	648.2	583.6	529.8	471.6	435.0	394.1
82.5°	284.3	327.3	340.3	381.2	392.0	394.1	351.0	316.6	280.0	260.6	232.6
85°	131.4	155.1	157.2	180.9	189.5	206.7	187.4	163.7	142.1	133.5	116.3
87.5°	4.3	12.9	17.2	32.3	43.1	49.5	53.8	53.8	45.2	40.9	34.5
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°	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4	4828.4
2.5°	4572.1	4623.8	4684.1	4727.2	4804.7	4869.3	4936.0	5009.3	5063.1	5050.2
5°	4341.7	4427.8	4537.6	4638.9	4783.1	4929.6	5091.1	5256.9	5353.8	5349.5
7.5°	4212.4	4335.2	4468.7	4604.4	4774.5	4985.6	5233.2	5491.7	5623.0	5629.5
10°	4281.4	4412.7	4503.2	4617.3	4796.1	5061.0	5358.2	5668.3	5819.0	5849.2
12.5°	4498.9	4488.1	4481.6	4563.5	4778.8	5114.8	5478.8	5849.2	6019.3	6055.9
15°	4705.6	4483.8	4350.3	4406.3	4701.3	5149.3	5597.2	6047.3	6239.0	6277.7
17.5°	4744.4	4408.4	4160.8	4199.5	4578.6	5160.0	5711.3	6241.1	6447.9	6484.5
20°	4636.7	4311.5	4022.9	3969.1	4423.5	5132.0	5782.4	6402.7	6628.8	6667.5
22.5°	4501.0	4225.4	3919.6	3779.6	4234.0	5104.0	5862.1	6572.8	6833.4	6867.8
25°	4358.9	4115.5	3822.6	3609.4	4018.6	5086.8	5995.6	6796.8	7111.2	7152.1
27.5°	4208.1	3982.0	3738.6	3527.6	3820.5	5108.3	6185.1	7158.6	7516.1	7574.2
30°	4046.6	3848.5	3684.8	3499.6	3684.8	5127.7	6394.0	7529.0	7948.9	8030.8
32.5°	3878.6	3725.7	3628.8	3512.5	3600.8	5082.5	6577.1	7944.6	8465.8	8536.9
35°	3710.7	3600.8	3557.7	3536.2	3488.8	4916.7	6725.7	8364.6	9055.9	9118.3
37.5°	3553.4	3471.6	3458.7	3482.4	3316.5	4645.3	6898.0	8898.7	9635.2	9730.0
40°	3407.0	3331.6	3329.5	3325.2	3127.0	4274.9	7130.6	9441.4	10205.9	10249.0
42.5°	3271.3	3176.6	3193.8	3142.1	2972.0	3874.3	7350.2	9904.4	10737.8	10768.0
45°	3150.7	3025.8	3045.2	2980.6	2898.7	3454.4	7544.1	10451.4	11411.9	11431.3
47.5°	3034.4	2900.9	2847.1	2842.8	2885.8	3066.7	7733.6	11504.5	12467.2	12501.6
50°	2926.7	2782.5	2629.5	2724.3	2806.1	2776.0	7970.5	12633.0	13556.9	13548.3
52.5°	2823.4	2633.9	2416.3	2599.4	2599.4	2560.6	7903.7	13317.9	14457.1	14605.7
55°	2704.9	2394.8	2194.5	2390.5	2295.7	2366.8	6721.4	13541.8	15023.5	15234.6
57.5°	2470.2	2099.8	1925.3	2030.8	1888.7	2194.5	4828.4	12430.6	14060.8	14435.6
60°	2244.1	1882.2	1768.1	1748.7	1563.5	1789.6	3129.2	9732.1	11573.4	11763.0
62.5°	1979.2	1694.9	1598.0	1449.4	1257.7	1302.9	1895.2	6404.8	7776.6	7819.7
65°	1778.9	1535.5	1350.3	1173.7	1029.4	945.4	1119.9	3088.3	3887.2	3835.6
67.5°	1526.9	1315.8	1139.3	1012.2	893.7	788.2	745.1	917.4	1038.0	1003.6
70°	1358.9	1156.5	986.3	865.7	755.9	650.4	575.0	540.6	529.8	521.2
72.5°	1171.6	995.0	818.4	702.1	598.7	501.8	432.9	392.0	381.2	372.6
75°	934.7	768.8	607.3	497.5	407.0	338.1	292.9	258.4	252.0	243.4
77.5°	618.1	493.2	361.8	295.0	241.2	204.6	174.4	152.9	148.6	144.3
80°	340.3	284.3	221.8	178.7	144.3	124.9	114.1	101.2	99.1	96.9
82.5°	202.4	170.1	127.1	101.2	84.0	75.4	68.9	62.5	60.3	58.1
85°	101.2	79.7	56.0	47.4	43.1	38.8	38.8	32.3	30.2	30.2
87.5°	25.8	21.5	12.9	10.8	10.8	10.8	8.6	6.5	6.5	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)