

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: P642660

Luminaire Tested: GWS-SA6D-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27500.7 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

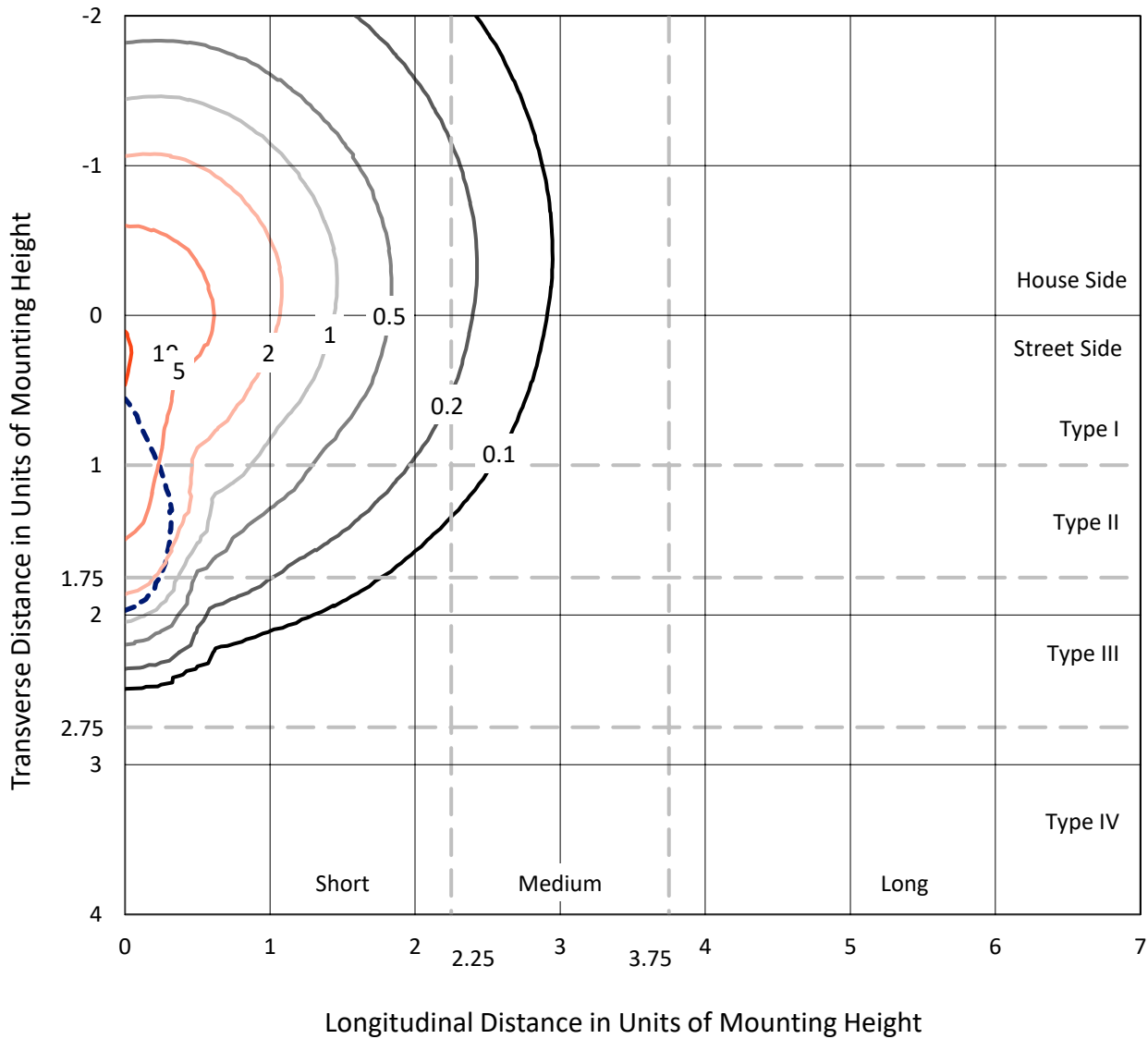
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

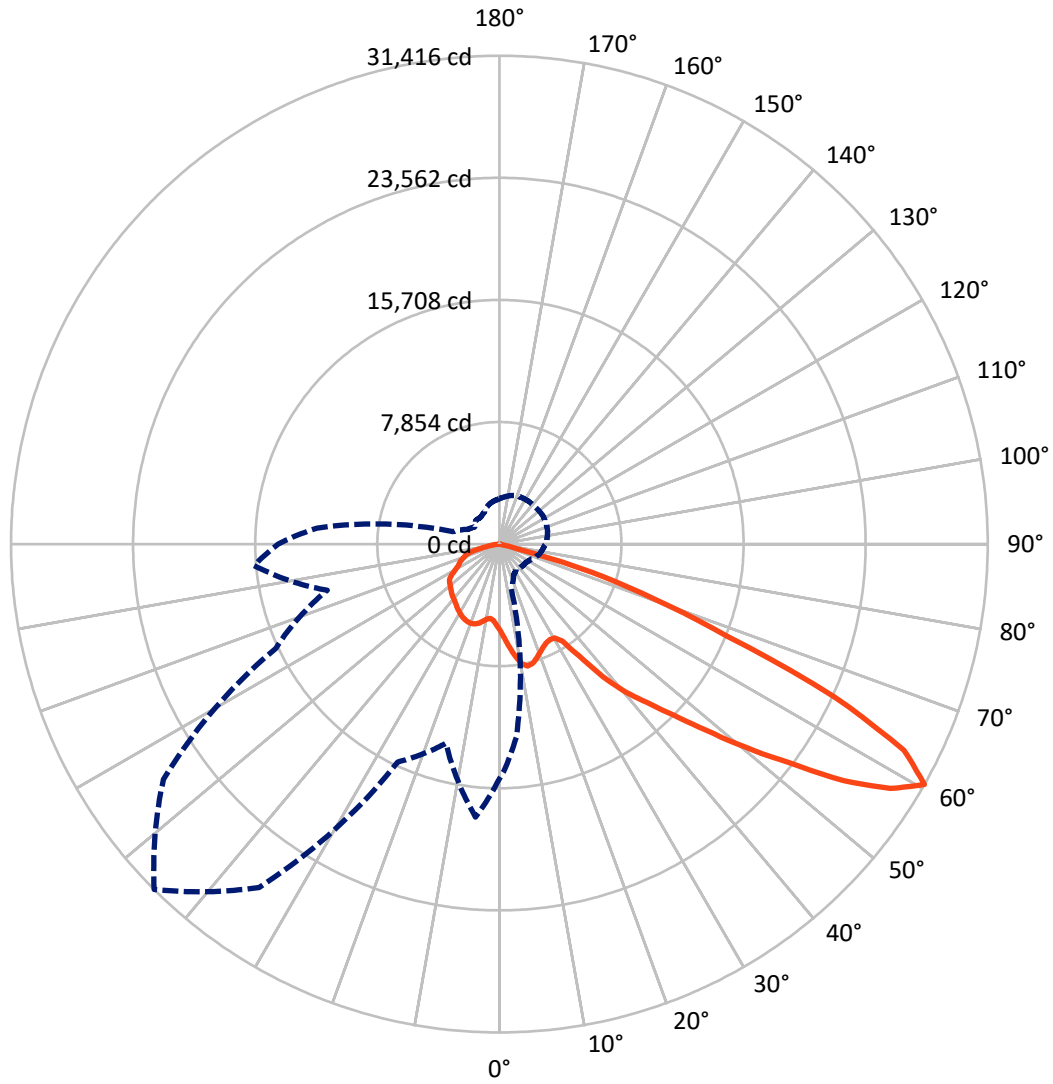
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9407.7	0.0	9407.7
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	18093.0	0.0	18093.0
	% Fixture	65.8	0.0	65.8
Total	Lumens	27500.7	0.0	27500.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.9	2.0
10°-20°	1738.1	6.3
20°-30°	2830.7	10.3
30°-40°	3976.6	14.5
40°-50°	5441.5	19.8
50°-60°	6981.2	25.4
60°-70°	4700.8	17.1
70°-80°	1175.2	4.3
80°-90°	114.6	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°	27500.7	100.0
0°-180°	27500.7	100.0

Coefficient of Utilization



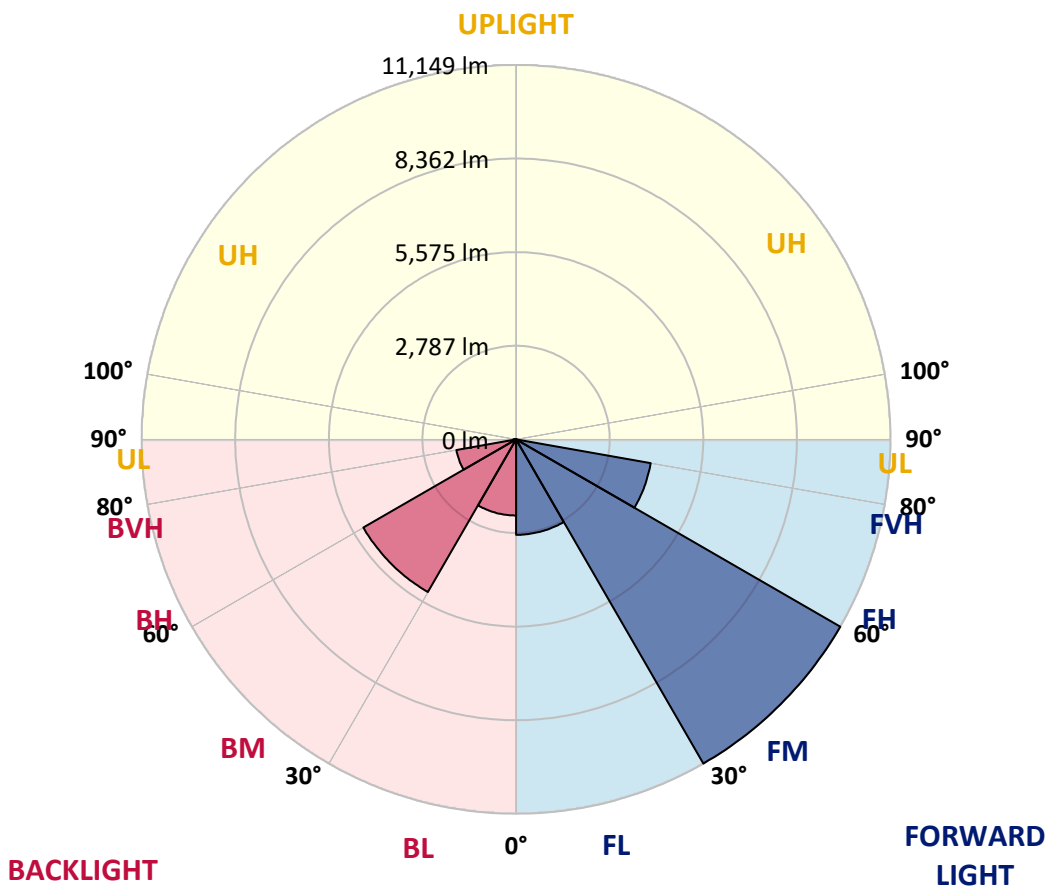
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.9	10.3			
FM (30°-60°)	11149.0	40.5			
FH (60°-80°)	4071.2	14.8			G2/5000
FVH (80°-90°)	29.8	0.1			G1/100
BL (0°-30°)	2267.8	8.2	B3/2500		
BM (30°-60°)	5250.3	19.1	B4/8500		
BH (60°-80°)	1804.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	84.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6
2.5°	5868.3	5855.6	5842.9	5744.1	5718.8	5647.9	5597.3	5533.9	5442.8	5392.1	5349.0
5°	6235.5	6215.2	6146.8	5944.2	5812.5	5668.2	5549.1	5417.4	5278.1	5187.0	5116.0
7.5°	6582.5	6577.4	6460.9	6126.6	5913.8	5706.2	5544.1	5351.6	5151.5	5014.7	4923.6
10°	6904.1	6866.1	6726.8	6291.2	6012.6	5774.5	5599.8	5387.0	5154.0	4969.1	4847.6
12.5°	7187.8	7139.7	6947.2	6443.2	6098.7	5804.9	5615.0	5440.2	5285.7	5131.2	4991.9
15°	7420.8	7362.5	7167.5	6585.0	6174.7	5787.2	5521.3	5384.5	5437.7	5506.1	5351.6
17.5°	7638.6	7577.8	7339.7	6688.8	6197.5	5678.3	5290.8	5232.5	5501.0	5812.5	5741.6
20°	7821.0	7752.6	7476.5	6739.5	6157.0	5470.6	4991.9	5093.2	5447.8	5820.1	5934.1
22.5°	8018.5	7962.8	7631.0	6812.9	6106.3	5184.4	4741.2	4989.4	5356.6	5683.4	5855.6
25°	8335.1	8266.7	7871.6	6942.1	6081.0	4916.0	4561.4	4888.1	5230.0	5526.3	5660.6
27.5°	8793.5	8666.9	8200.9	7167.5	6108.9	4662.7	4447.4	4764.0	5083.1	5336.4	5445.3
30°	9292.5	9140.5	8565.6	7400.5	6149.4	4508.2	4386.6	4622.2	4857.7	5111.0	5230.0
32.5°	9882.6	9748.3	8955.6	7575.3	6063.3	4437.3	4341.0	4467.7	4655.1	4857.7	4956.5
35°	10586.7	10346.1	9381.1	7717.1	5784.7	4333.4	4300.5	4298.0	4396.8	4594.3	4705.7
37.5°	11343.9	11085.6	9905.4	7869.1	5351.6	4168.8	4204.3	4097.9	4189.1	4346.1	4472.7
40°	11964.4	11693.4	10434.7	8076.8	4809.6	3910.5	3991.5	3877.6	3933.3	4095.4	4237.2
42.5°	12572.3	12283.6	10928.6	8312.3	4285.3	3657.2	3697.7	3654.7	3672.4	3842.1	4039.6
45°	13370.1	13045.9	11536.4	8479.5	3814.2	3457.1	3419.1	3345.7	3439.4	3659.7	3870.0
47.5°	14702.3	14314.8	12531.8	8588.4	3472.3	3343.2	3168.4	3125.3	3241.8	3487.5	3705.3
50°	16259.9	15925.6	14122.3	8583.3	3216.5	3246.9	2925.3	2887.3	3079.8	3328.0	3558.4
52.5°	17536.4	17197.0	15482.4	8330.0	3006.3	3041.8	2783.4	2677.1	2940.5	3170.9	3401.4
55°	18567.2	18184.7	16107.9	7271.4	2740.4	2715.0	2628.9	2433.9	2765.7	3013.9	3229.2
57.5°	18012.5	17556.6	15350.7	5528.9	2466.8	2307.3	2363.0	2218.6	2527.6	2839.1	3046.8
60°	15102.5	14692.2	12471.0	2943.0	2170.5	1927.4	2043.9	2066.7	2266.8	2628.9	2841.7
62.5°	10373.9	10075.1	8451.6	1785.5	1712.1	1547.5	1729.8	1894.5	2043.9	2350.3	2535.2
65°	5075.5	4986.9	4227.1	1144.8	1198.0	1251.2	1433.5	1633.6	1853.9	2122.4	2317.4
67.5°	1398.0	1408.2	1281.5	894.0	944.7	1091.6	1236.0	1395.5	1615.9	1864.1	2061.6
70°	615.4	625.6	645.8	688.9	785.1	919.4	1068.8	1233.4	1436.0	1643.7	1833.7
72.5°	428.0	438.2	468.5	524.3	610.4	737.0	878.8	1035.9	1246.1	1420.8	1577.9
75°	263.4	271.0	298.9	347.0	405.2	501.5	640.8	785.1	970.0	1129.6	1268.9
77.5°	139.3	134.2	152.0	184.9	235.5	286.2	379.9	471.1	602.8	731.9	848.5
80°	76.0	73.4	83.6	101.3	116.5	157.0	220.3	281.1	357.1	430.6	493.9
82.5°	32.9	30.4	32.9	43.1	53.2	76.0	111.4	154.5	197.6	248.2	288.7
85°	0.0	0.0	0.0	2.5	12.7	20.3	38.0	55.7	81.0	111.4	136.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	22.8
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°	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6
2.5°	5323.7	5260.4	5255.3	5204.7	5209.8	5212.3	5161.6	5141.4	5159.1	5179.4	5169.2
5°	5090.7	5024.9	4997.0	4948.9	4943.8	4921.0	4900.8	4875.4	4893.2	4910.9	4921.0
7.5°	4888.1	4845.0	4827.3	4814.7	4819.7	4809.6	4769.1	4746.3	4743.7	4751.3	4761.5
10°	4822.2	4786.8	4809.6	4845.0	4870.4	4888.1	4845.0	4807.1	4771.6	4756.4	4756.4
12.5°	4964.1	4918.5	4964.1	5002.1	5052.7	5065.4	5017.3	4976.7	4964.1	4979.3	5009.7
15°	5278.1	5171.8	5169.2	5192.0	5232.5	5252.8	5207.2	5187.0	5187.0	5283.2	5359.2
17.5°	5592.2	5417.4	5344.0	5331.3	5356.6	5364.2	5326.3	5308.5	5354.1	5541.5	5683.4
20°	5812.5	5599.8	5440.2	5409.8	5417.4	5420.0	5389.6	5376.9	5442.8	5670.7	5789.7
22.5°	5789.7	5632.7	5437.7	5399.7	5412.4	5407.3	5379.4	5374.4	5427.6	5625.1	5680.8
25°	5632.7	5511.1	5346.5	5321.2	5341.5	5338.9	5311.1	5298.4	5321.2	5452.9	5458.0
27.5°	5452.9	5346.5	5204.7	5197.1	5230.0	5247.7	5199.6	5161.6	5154.0	5242.7	5222.4
30°	5237.6	5159.1	5045.1	5050.2	5111.0	5121.1	5062.9	5007.1	4991.9	5040.1	5012.2
32.5°	4981.8	4956.5	4895.7	4908.4	4966.6	4986.9	4926.1	4867.8	4850.1	4865.3	4807.1
35°	4764.0	4753.9	4758.9	4781.7	4832.4	4847.6	4796.9	4751.3	4726.0	4672.8	4596.8
37.5°	4538.6	4566.4	4639.9	4683.0	4710.8	4705.7	4677.9	4645.0	4604.4	4505.7	4412.0
40°	4328.4	4399.3	4531.0	4579.1	4589.2	4591.8	4571.5	4543.7	4493.0	4361.3	4254.9
42.5°	4166.3	4244.8	4419.6	4493.0	4498.1	4503.1	4482.9	4460.1	4389.2	4214.4	4110.6
45°	3996.6	4100.4	4305.6	4394.2	4389.2	4386.6	4368.9	4358.8	4275.2	4072.6	3958.6
47.5°	3852.2	3973.8	4194.1	4270.1	4267.6	4265.1	4252.4	4252.4	4168.8	3948.5	3819.3
50°	3710.4	3849.7	4080.2	4143.5	4148.6	4143.5	4138.4	4146.0	4047.2	3811.7	3685.1
52.5°	3555.9	3712.9	3953.5	4011.8	4042.2	4054.8	4054.8	4037.1	3920.6	3674.9	3535.6
55°	3386.2	3535.6	3814.2	3892.7	3918.1	3940.9	3940.9	3905.4	3796.5	3548.3	3398.9
57.5°	3176.0	3307.7	3528.0	3606.6	3667.3	3682.5	3682.5	3624.3	3535.6	3297.6	3176.0
60°	2948.1	3062.0	3211.5	3295.0	3340.6	3310.2	3333.0	3317.8	3246.9	3026.6	2925.3
62.5°	2644.1	2760.6	2925.3	3011.4	3031.6	3001.2	3031.6	3029.1	2932.9	2735.3	2613.7
65°	2426.3	2540.3	2702.4	2813.8	2846.7	2839.1	2859.4	2829.0	2710.0	2522.6	2406.1
67.5°	2168.0	2289.6	2477.0	2601.1	2669.5	2677.1	2704.9	2641.6	2520.0	2314.9	2168.0
70°	1922.3	2026.2	2170.5	2287.0	2383.3	2431.4	2436.5	2345.3	2193.3	2023.6	1917.2
72.5°	1664.0	1770.4	1945.1	2071.7	2193.3	2249.0	2249.0	2137.6	1973.0	1785.5	1671.6
75°	1349.9	1448.7	1608.3	1745.0	1884.3	1955.2	1952.7	1856.5	1674.1	1496.8	1377.8
77.5°	914.3	987.8	1089.1	1192.9	1213.2	1268.9	1296.7	1175.2	1073.9	977.6	871.2
80°	531.9	577.5	633.2	691.4	704.1	721.8	676.2	630.6	577.5	514.1	466.0
82.5°	311.5	341.9	369.8	415.4	423.0	428.0	387.5	367.2	324.2	286.2	255.8
85°	152.0	162.1	187.4	210.2	200.1	195.0	177.3	157.0	139.3	124.1	108.9
87.5°	30.4	30.4	45.6	43.1	35.5	30.4	17.7	22.8	5.1	5.1	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°	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6
2.5°	5202.2	5245.2	5298.4	5369.3	5450.4	5536.5	5620.0	5683.4	5746.7	5840.4	5825.2
5°	4936.2	5009.7	5093.2	5202.2	5333.9	5483.3	5650.4	5817.6	5997.4	6149.4	6215.2
7.5°	4781.7	4862.8	4961.5	5103.4	5273.1	5455.4	5691.0	5962.0	6253.2	6453.3	6577.4
10°	4781.7	4885.6	5014.7	5151.5	5300.9	5488.3	5779.6	6119.0	6493.8	6757.2	6901.6
12.5°	5057.8	5161.6	5189.5	5184.4	5268.0	5475.7	5850.5	6283.6	6731.9	7010.5	7187.8
15°	5488.3	5523.8	5313.6	5121.1	5133.8	5384.5	5883.4	6415.3	6937.0	7271.4	7463.8
17.5°	5777.1	5683.4	5308.5	4971.7	4900.8	5230.0	5883.4	6541.9	7154.9	7532.2	7712.1
20°	5799.9	5566.9	5179.4	4827.3	4645.0	5024.9	5842.9	6638.2	7365.1	7783.0	7975.5
22.5°	5599.8	5369.3	5042.6	4703.2	4434.7	4776.7	5777.1	6711.6	7544.9	8018.5	8256.6
25°	5371.8	5179.4	4903.3	4576.6	4290.4	4525.9	5716.3	6835.7	7795.6	8337.6	8578.2
27.5°	5149.0	4986.9	4736.1	4470.2	4209.3	4308.1	5678.3	7018.1	8094.5	8791.0	8998.7
30°	4931.2	4784.3	4556.3	4368.9	4166.3	4166.3	5645.4	7228.3	8489.6	9300.1	9507.7
32.5°	4710.8	4571.5	4386.6	4270.1	4141.0	4110.6	5554.2	7425.9	8897.4	9857.2	10070.0
35°	4505.7	4366.4	4224.5	4176.4	4128.3	4067.5	5328.8	7580.4	9295.0	10508.1	10690.5
37.5°	4313.2	4178.9	4072.6	4059.9	4065.0	3951.0	4974.2	7709.5	9791.4	11174.2	11270.5
40°	4146.0	3996.6	3913.0	3910.5	3935.8	3763.6	4525.9	7894.4	10358.7	11739.0	11698.5
42.5°	3996.6	3839.6	3738.3	3761.0	3745.9	3576.2	4087.8	8064.1	10852.6	12268.4	12187.3
45°	3849.7	3697.7	3555.9	3588.8	3571.1	3459.7	3715.5	8188.2	11399.7	12904.1	12914.2
47.5°	3707.9	3558.4	3416.6	3376.1	3373.5	3424.2	3429.3	8228.7	12291.2	13927.3	13696.8
50°	3576.2	3426.7	3279.8	3143.1	3196.3	3353.3	3216.5	8198.3	13625.9	15056.9	14413.6
52.5°	3439.4	3297.6	3135.5	2889.8	3029.1	3183.6	3026.6	8089.4	14441.4	16054.7	15669.8
55°	3282.4	3148.1	2927.8	2628.9	2798.6	2831.6	2831.6	7035.8	14788.4	17042.5	17280.6
57.5°	3072.2	2894.9	2545.4	2304.8	2456.7	2330.1	2623.9	4923.6	14216.0	16731.0	17655.4
60°	2834.1	2644.1	2274.4	2102.1	2147.7	1924.8	2236.4	3087.4	11782.1	14236.3	15836.9
62.5°	2520.0	2345.3	2038.8	1904.6	1810.9	1570.3	1800.7	1952.7	8076.8	10571.5	11663.1
65°	2309.8	2117.3	1843.8	1666.5	1474.0	1263.8	1195.4	1281.5	4343.6	5916.4	6653.4
67.5°	2061.6	1871.7	1613.3	1390.4	1236.0	1084.0	965.0	934.6	1489.2	1970.4	2132.5
70°	1826.1	1643.7	1428.4	1220.8	1066.3	916.8	800.3	716.8	688.9	683.8	673.7
72.5°	1585.5	1415.8	1236.0	1043.5	873.8	737.0	633.2	536.9	496.4	483.7	471.1
75°	1299.3	1165.0	985.2	777.5	640.8	514.1	433.1	369.8	334.3	321.7	306.5
77.5°	835.8	775.0	618.0	501.5	387.5	306.5	263.4	222.9	200.1	195.0	182.4
80°	445.8	415.4	341.9	288.7	230.5	187.4	164.6	141.8	129.2	124.1	119.0
82.5°	248.2	225.4	190.0	167.2	134.2	114.0	101.3	91.2	83.6	81.0	78.5
85°	111.4	96.2	76.0	70.9	63.3	58.3	55.7	50.7	48.1	45.6	43.1
87.5°	5.1	10.1	12.7	10.1	10.1	15.2	17.7	17.7	15.2	15.2	12.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6	5546.6
2.5°	5918.9	5994.9	6002.5	6027.8	5994.9	5987.3	5934.1	5903.7	5875.8	5868.3
5°	6379.9	6531.8	6592.6	6635.7	6595.1	6574.9	6458.4	6336.8	6268.4	6235.5
7.5°	6853.5	7081.4	7200.4	7253.6	7258.7	7167.5	6967.4	6739.5	6625.5	6582.5
10°	7276.4	7557.6	7714.6	7815.9	7780.4	7669.0	7395.5	7086.5	6942.1	6904.1
12.5°	7590.5	7858.9	7980.5	8046.4	8043.8	7983.1	7724.7	7390.4	7225.8	7187.8
15°	7793.1	7952.7	7960.3	7975.5	8018.5	8099.6	7965.3	7656.3	7474.0	7420.8
17.5°	7952.7	7889.3	7770.3	7729.8	7826.0	8051.4	8132.5	7881.7	7684.2	7638.6
20°	8054.0	7734.8	7524.6	7446.1	7557.6	7924.8	8233.8	8084.4	7879.2	7821.0
22.5°	8132.5	7590.5	7251.1	7197.9	7314.4	7788.0	8337.6	8325.0	8099.6	8018.5
25°	8256.6	7494.2	7058.6	7020.6	7129.5	7722.2	8476.9	8651.7	8451.6	8335.1
27.5°	8451.6	7484.1	6959.8	6947.2	7096.6	7780.4	8677.0	9130.4	8879.6	8793.5
30°	8722.6	7580.4	6982.6	7008.0	7190.3	7990.6	8988.5	9677.4	9426.7	9292.5
32.5°	9112.6	7838.7	7329.6	7438.5	7572.8	8327.5	9444.4	10270.1	10080.1	9882.6
35°	9626.8	8547.8	8355.4	8818.8	8692.2	9064.5	9994.0	10989.4	10758.9	10586.7
37.5°	10313.1	10001.6	10178.9	10817.1	10510.7	10457.5	10665.2	11642.8	11516.2	11343.9
40°	11275.6	11338.9	11665.6	12503.9	12060.7	11718.8	11488.3	12134.1	12177.2	11964.4
42.5°	11913.8	12205.1	12992.7	13945.0	13334.6	12516.6	12177.2	12762.2	12764.8	12572.3
45°	12151.9	12914.2	14560.5	15657.1	14636.4	12972.5	12557.1	13615.8	13590.4	13370.1
47.5°	12065.8	13511.9	16189.0	17865.6	16308.0	13296.6	12503.9	14831.5	15036.6	14702.3
50°	11885.9	14112.2	18091.0	20570.5	18359.5	13641.1	12422.9	16178.8	16518.2	16259.9
52.5°	12068.3	14780.8	20340.1	23366.6	20932.7	14190.7	12969.9	17908.7	17847.9	17536.4
55°	12645.7	15571.0	23072.8	26879.5	23759.2	15120.2	14375.6	19557.5	18939.5	18567.2
57.5°	12617.9	16135.8	25468.8	29657.8	26218.4	15882.5	14864.4	19732.2	18483.6	18012.5
60°	11452.8	15877.5	26380.5	31415.5	26960.5	15462.1	13256.1	17625.0	15596.3	15102.5
62.5°	8547.8	14089.4	24612.7	29214.6	24860.9	13354.9	9968.7	12650.8	11207.2	10373.9
65°	5468.1	11022.3	20692.1	23668.0	20492.0	10214.4	5936.6	6782.6	5313.6	5075.5
67.5°	2327.5	7780.4	16085.1	15819.2	15330.4	6617.9	2292.1	1909.7	1423.4	1398.0
70°	769.9	5293.3	9915.5	10551.2	9155.7	4558.8	757.3	640.8	638.2	615.4
72.5°	504.0	2841.7	5582.1	6215.2	5891.0	2623.9	458.4	428.0	438.2	428.0
75°	301.4	618.0	939.6	1220.8	939.6	440.7	276.1	271.0	276.1	263.4
77.5°	177.3	172.2	167.2	167.2	164.6	152.0	139.3	134.2	136.8	139.3
80°	114.0	108.9	103.8	101.3	88.6	83.6	78.5	73.4	73.4	76.0
82.5°	73.4	68.4	63.3	55.7	45.6	38.0	35.5	30.4	30.4	32.9
85°	38.0	30.4	22.8	17.7	10.1	5.1	0.0	0.0	0.0	0.0
87.5°	7.6	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

(END OF REPORT)