

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: P510635

Luminaire Tested: **CTN-CA6-230-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA6-230-722-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29178 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

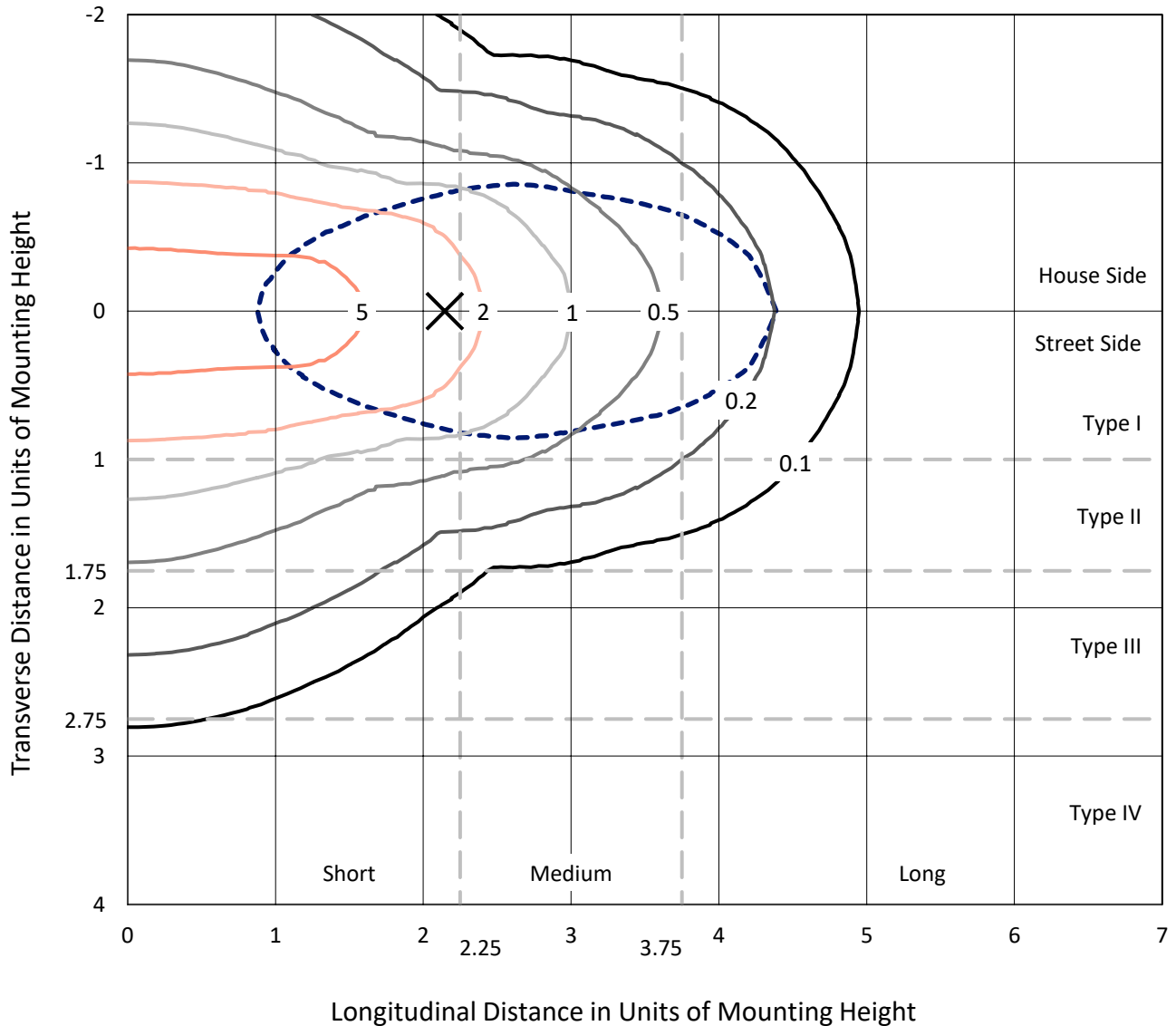
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

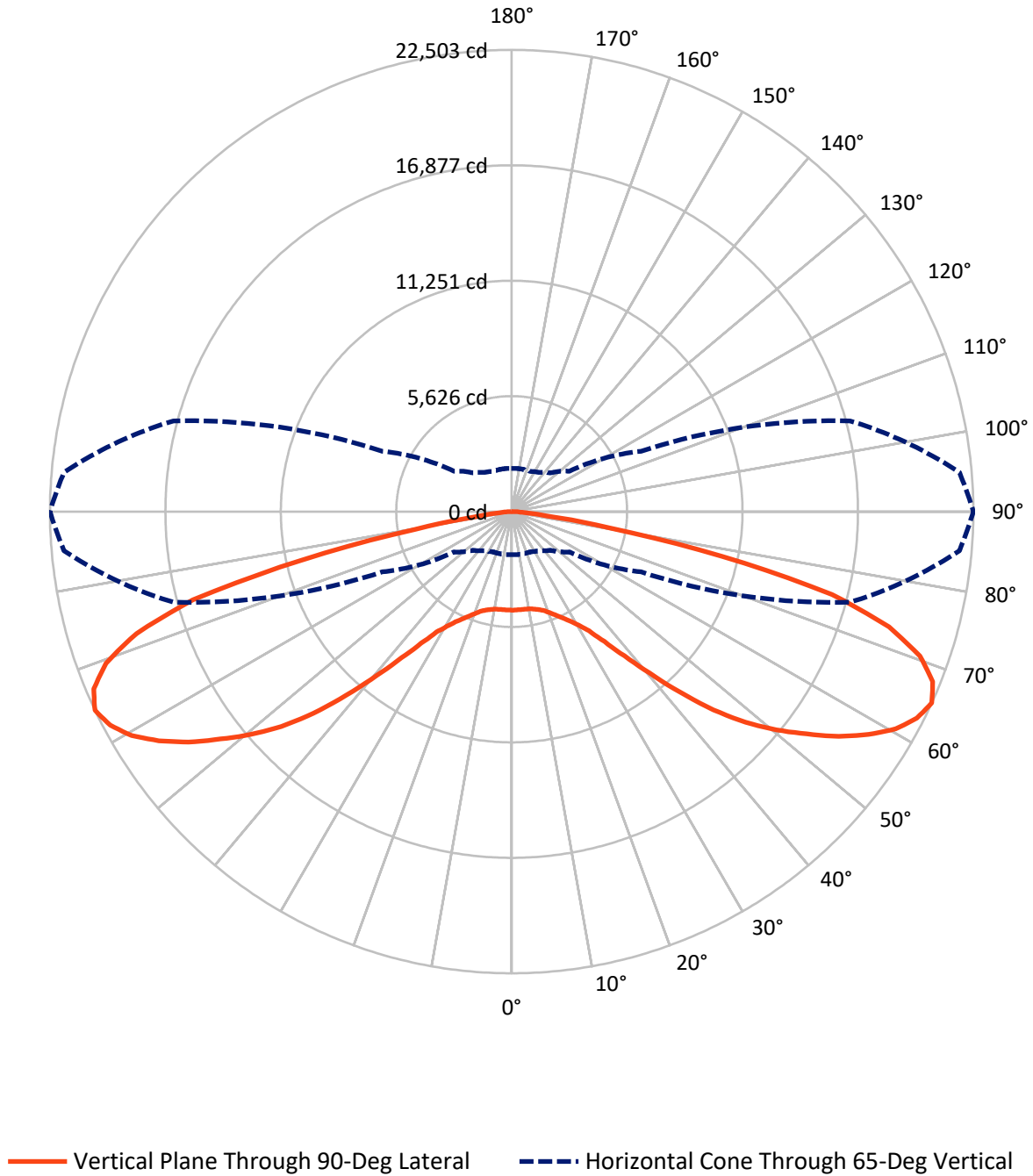
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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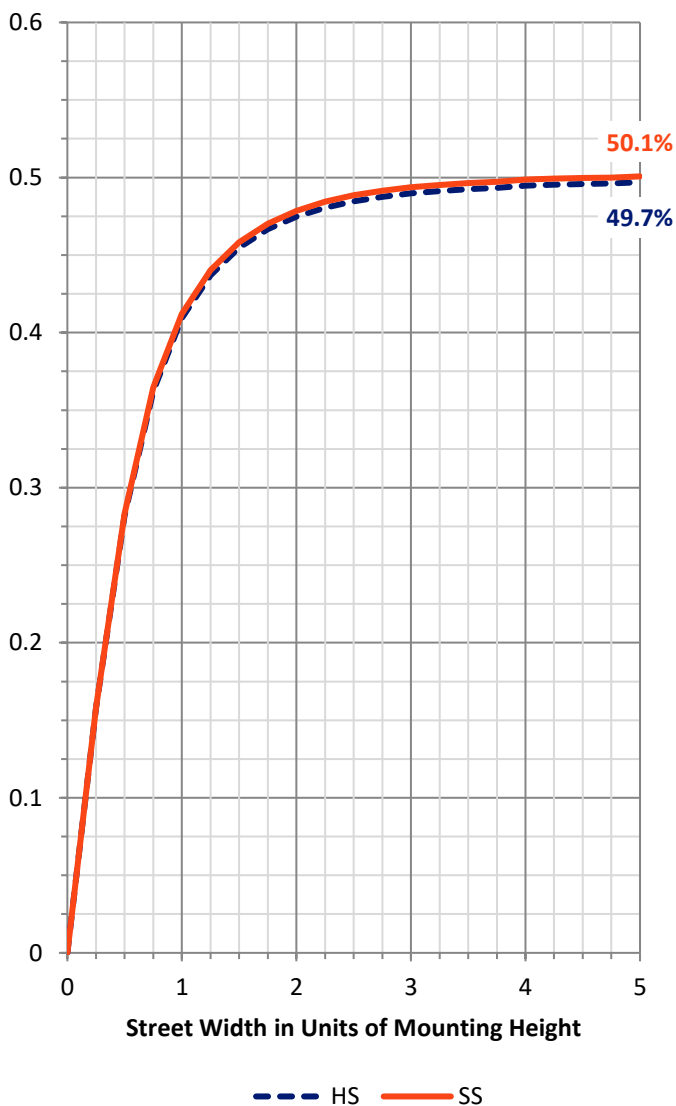
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14589.0	0.0	14589.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14589.0	0.0	14589.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29178.0	0.0	29178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.2	1.6
10°-20°	1346.2	4.6
20°-30°	2217.4	7.6
30°-40°	3248.8	11.1
40°-50°	4803.8	16.5
50°-60°	6301.3	21.6
60°-70°	6574.0	22.5
70°-80°	3779.7	13.0
80°-90°	450.6	1.5
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°	29178.0	100.0
0°-180°	29178.0	100.0

Coefficient of Utilization

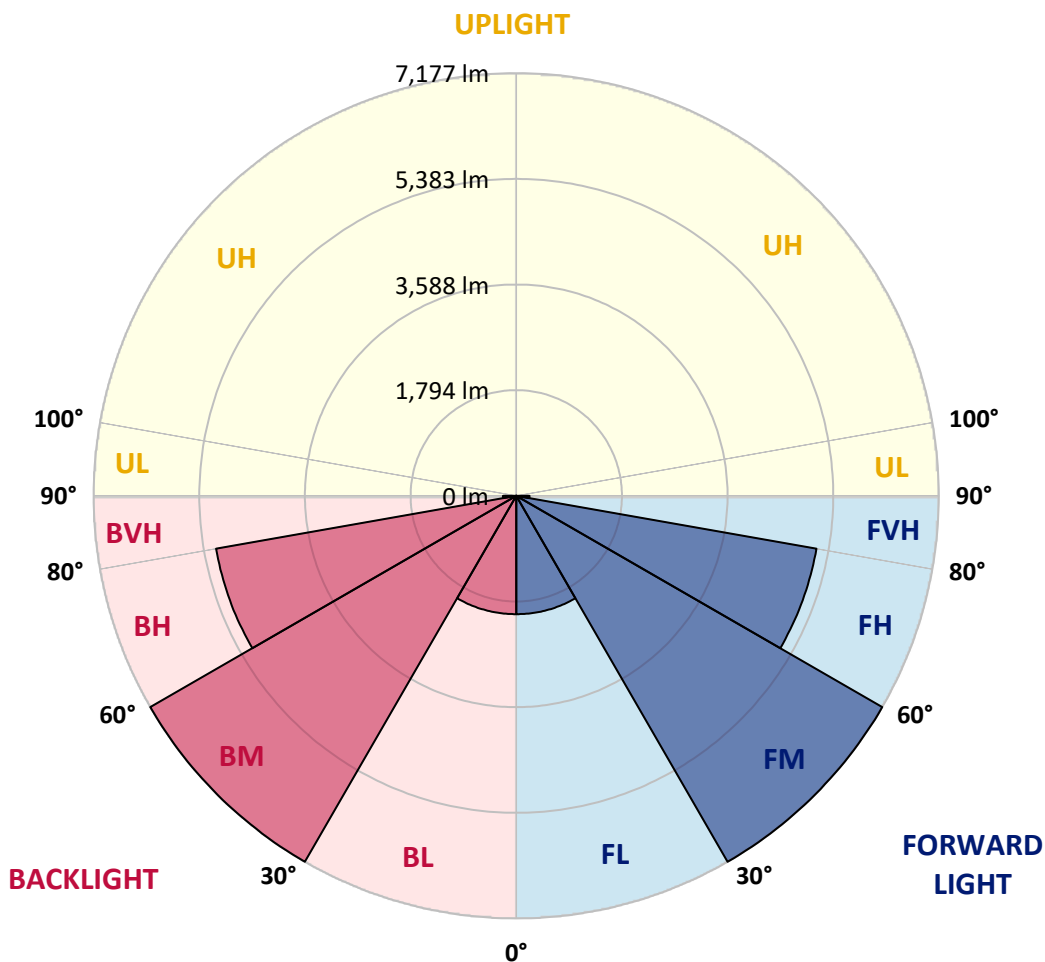


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2009.9	6.9			
FM (30°-60°)	7177.0	24.6			
FH (60°-80°)	5176.9	17.7			G3/7500
FVH (80°-90°)	225.3	0.8			G3/500
BL (0°-30°)	2009.9	6.9	B3/2500		
BM (30°-60°)	7177.0	24.6	B4/8500		
BH (60°-80°)	5176.9	17.7	B5		G5
BVH (80°-90°)	225.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0
2.5°	4805.8	4802.4	4801.3	4799.6	4802.4	4804.7	4810.4	4815.5	4814.4	4813.3	4814.4
5°	4779.0	4780.8	4781.3	4781.9	4784.2	4785.9	4793.9	4801.9	4800.7	4799.6	4805.3
7.5°	4741.4	4741.4	4740.3	4739.1	4743.7	4747.7	4755.7	4763.6	4769.9	4775.6	4784.7
10°	4686.7	4684.4	4683.8	4683.2	4688.4	4692.9	4707.8	4722.6	4735.1	4747.1	4762.5
12.5°	4619.9	4619.4	4620.5	4621.6	4632.5	4643.3	4668.4	4693.5	4718.6	4743.7	4765.9
15°	4540.7	4533.8	4539.5	4544.7	4562.3	4579.4	4627.9	4676.4	4714.6	4752.2	4795.6
17.5°	4419.8	4412.9	4421.5	4429.5	4464.8	4500.2	4568.6	4636.5	4708.3	4780.2	4842.3
20°	4236.7	4236.7	4258.4	4280.0	4339.9	4399.8	4493.9	4587.4	4684.4	4781.3	4871.4
22.5°	4041.7	4036.0	4082.1	4128.3	4200.2	4271.5	4390.1	4508.7	4637.0	4764.8	4888.5
25°	3821.5	3831.2	3889.4	3947.0	4047.9	4148.3	4294.3	4439.7	4601.1	4762.5	4934.2
27.5°	3635.6	3637.3	3707.5	3777.6	3904.2	4030.3	4207.6	4385.0	4581.7	4778.5	4994.6
30°	3443.4	3474.8	3548.9	3622.5	3763.9	3905.4	4119.8	4333.6	4566.9	4800.1	5063.6
32.5°	3295.7	3303.1	3387.0	3470.2	3617.9	3765.6	4014.9	4264.1	4544.1	4824.1	5144.6
35°	3156.6	3168.5	3246.7	3324.8	3478.8	3632.2	3905.4	4178.0	4512.7	4846.9	5232.4
37.5°	3032.8	3047.6	3121.8	3195.9	3344.2	3492.5	3782.2	4071.9	4464.2	4856.6	5328.8
40°	2942.1	2954.7	3017.4	3080.1	3214.2	3347.6	3651.0	3953.8	4396.4	4838.9	5404.7
42.5°	2876.6	2882.3	2933.0	2983.8	3103.5	3223.3	3523.8	3823.8	4308.0	4792.2	5463.4
45°	2787.6	2800.1	2850.3	2899.9	3007.7	3114.9	3389.8	3664.7	4176.8	4688.4	5464.0
47.5°	2721.4	2729.4	2776.8	2823.5	2923.9	3024.3	3271.2	3518.1	4028.5	4538.4	5402.4
50°	2673.0	2669.0	2712.9	2756.2	2841.2	2925.6	3145.7	3365.3	3844.9	4324.5	5248.4
52.5°	2604.0	2608.5	2643.9	2679.2	2752.8	2825.8	3023.1	3219.9	3641.3	4062.2	4998.6
55°	2511.6	2532.7	2562.3	2591.4	2655.8	2720.3	2897.7	3075.0	3437.7	3799.9	4677.0
57.5°	2420.9	2436.3	2461.4	2486.5	2537.2	2587.4	2754.5	2921.6	3223.3	3525.0	4270.9
60°	2346.8	2350.7	2366.7	2382.1	2420.9	2459.7	2597.7	2735.7	2999.2	3262.1	3866.0
62.5°	2250.9	2252.1	2262.9	2273.8	2297.7	2321.1	2429.4	2537.2	2761.9	2986.6	3463.4
65°	2101.0	2110.1	2120.3	2130.0	2146.0	2161.4	2244.1	2326.8	2495.0	2663.3	3047.6
67.5°	1949.3	1941.3	1953.2	1965.2	1967.5	1969.8	2032.5	2095.3	2233.3	2371.3	2680.4
70°	1702.3	1708.6	1707.5	1705.7	1696.0	1685.8	1729.7	1773.6	1846.6	1919.0	2142.6
72.5°	1305.4	1296.8	1275.2	1252.9	1242.7	1232.4	1283.7	1334.5	1388.1	1441.7	1603.1
75°	797.8	822.4	867.4	911.9	929.0	946.1	943.3	939.8	935.3	930.7	1132.0
77.5°	540.6	553.8	564.0	573.7	598.8	623.3	651.8	680.4	679.8	679.2	805.8
80°	343.9	333.6	338.2	342.7	357.0	371.3	414.6	457.4	469.4	480.8	568.0
82.5°	215.6	217.3	223.0	228.1	212.1	196.2	229.8	262.9	291.4	319.4	359.9
85°	139.7	158.5	155.7	152.8	134.0	115.2	144.9	174.5	188.2	201.3	216.7
87.5°	45.1	52.5	54.2	55.3	55.3	54.7	61.0	67.3	69.6	71.3	77.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0	4807.0
2.5°	4815.0	4809.3	4803.6	4801.9	4800.1	4799.0	4797.9	4796.7
5°	4810.4	4809.3	4808.1	4803.6	4799.0	4798.4	4797.9	4799.6
7.5°	4793.9	4793.9	4793.9	4799.0	4804.1	4801.9	4799.0	4802.4
10°	4777.3	4791.0	4804.7	4808.7	4812.7	4815.5	4818.4	4821.2
12.5°	4788.2	4811.6	4834.4	4847.5	4860.6	4867.4	4873.7	4875.4
15°	4838.9	4868.6	4898.2	4915.9	4933.0	4944.4	4955.8	4958.7
17.5°	4904.5	4950.1	4995.2	5020.8	5046.5	5059.6	5072.2	5068.2
20°	4961.0	5023.7	5086.4	5141.2	5195.9	5226.2	5255.8	5259.2
22.5°	5011.7	5117.2	5222.7	5293.4	5363.6	5417.2	5470.8	5476.5
25°	5105.3	5243.3	5381.3	5494.2	5607.1	5656.2	5704.6	5733.1
27.5°	5210.2	5395.0	5579.7	5730.9	5882.0	5956.7	6030.8	6034.8
30°	5326.5	5560.9	5794.7	5997.8	6200.2	6291.5	6382.1	6430.0
32.5°	5464.5	5762.2	6059.3	6326.2	6593.1	6731.7	6870.3	6918.8
35°	5617.4	6003.5	6389.0	6756.8	7124.1	7389.3	7654.5	7782.2
37.5°	5801.0	6292.6	6784.2	7336.8	7889.4	8341.7	8793.3	8922.2
40°	5970.4	6602.8	7234.7	8002.3	8769.9	9487.4	10204.2	10344.0
42.5°	6134.6	6900.0	7665.3	8712.3	9759.4	10719.8	11680.1	12043.4
45°	6239.0	7164.6	8089.6	9470.3	10850.9	12169.5	13487.4	13792.5
47.5°	6265.8	7353.3	8440.9	10151.2	11861.5	13413.3	14964.5	15356.2
50°	6172.3	7451.4	8730.6	10987.8	13244.5	14824.7	16404.4	16726.1
52.5°	5935.0	7420.1	8905.1	11636.2	14367.4	16040.0	17712.7	18004.7
55°	5554.1	7229.6	8905.1	12170.0	15434.4	17169.2	18903.5	19347.1
57.5°	5016.9	6865.7	8714.6	12526.5	16338.3	18222.5	20106.8	20505.4
60°	4469.9	6432.9	8395.3	12723.2	17051.2	19047.2	21043.2	21508.6
62.5°	3939.6	5844.9	7749.7	12516.8	17283.8	19391.1	21497.7	22167.2
65°	3432.0	5191.9	6951.9	12013.2	17074.0	19488.6	21902.6	22502.6
67.5°	2989.5	4646.2	6302.9	11169.2	16035.5	18707.8	21379.7	22127.3
70°	2366.1	3890.5	5414.9	9672.7	13930.5	17060.3	20190.0	21112.8
72.5°	1764.5	3057.3	4349.6	7608.8	10868.0	14467.2	18065.7	19226.8
75°	1332.8	2442.0	3551.2	6014.3	8477.4	11524.5	14571.5	16125.6
77.5°	932.4	1764.5	2596.0	4433.4	6270.9	7957.9	9644.8	10472.8
80°	654.7	1116.1	1576.9	2460.8	3344.2	4092.4	4840.1	4780.8
82.5°	399.8	593.7	787.0	1067.6	1348.2	1529.0	1709.7	1701.8
85°	232.1	282.3	331.9	411.2	490.5	580.0	669.5	595.4
87.5°	82.1	82.1	82.1	94.1	106.1	146.0	185.9	196.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)