

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: P579395

Luminaire Tested: **CTN-CA10-760-722-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-722-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53542 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U3 - G5

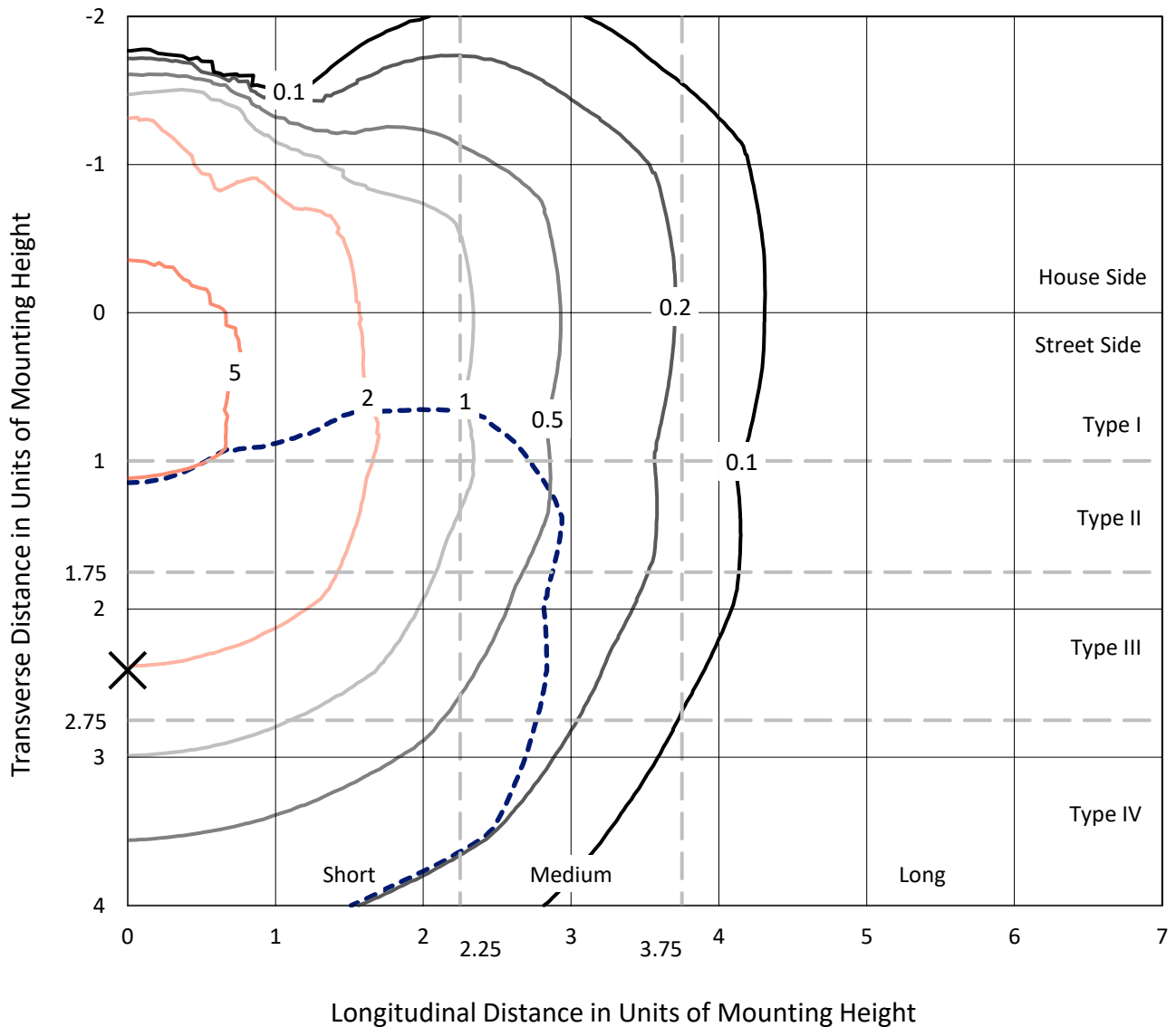
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

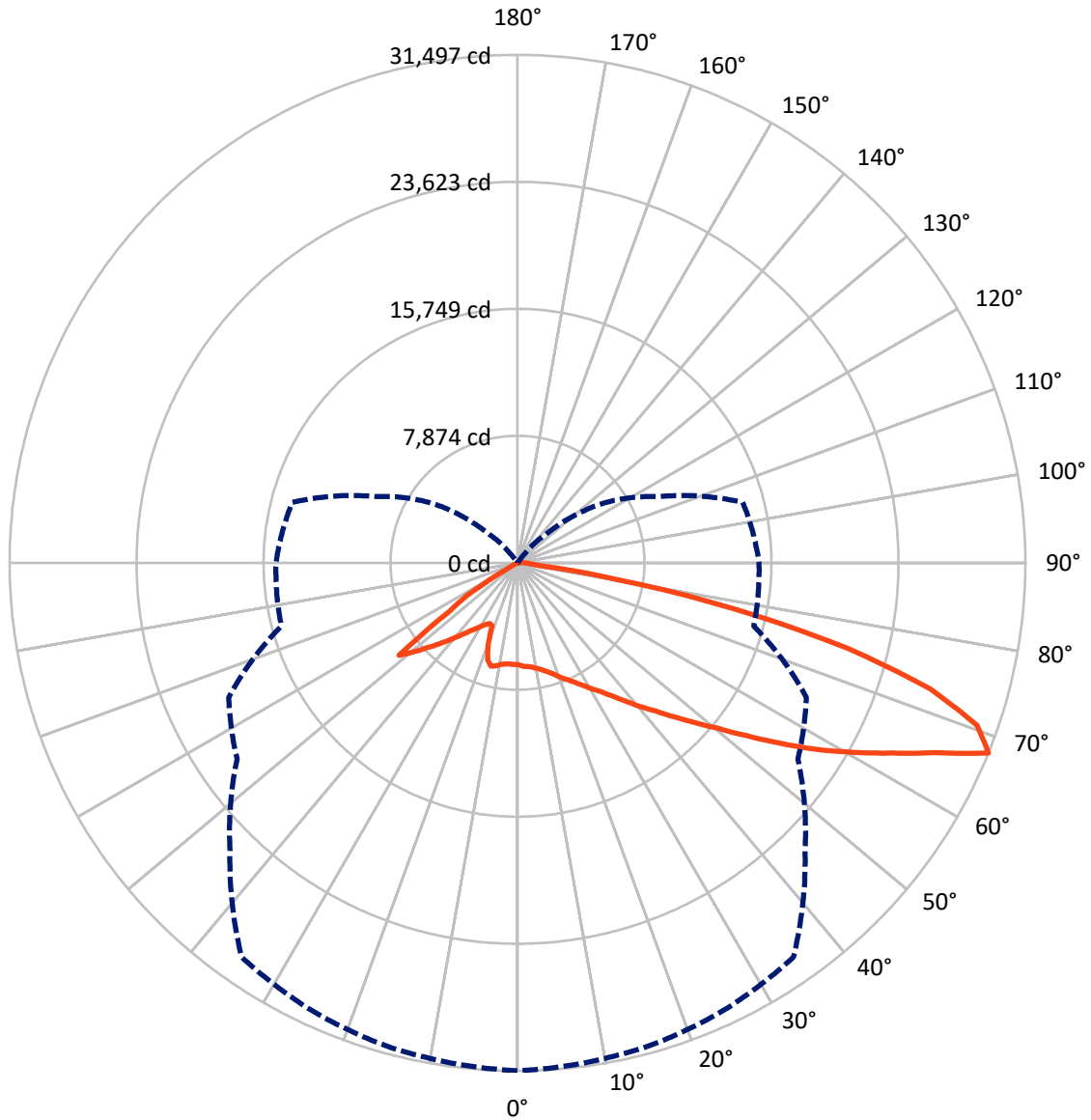
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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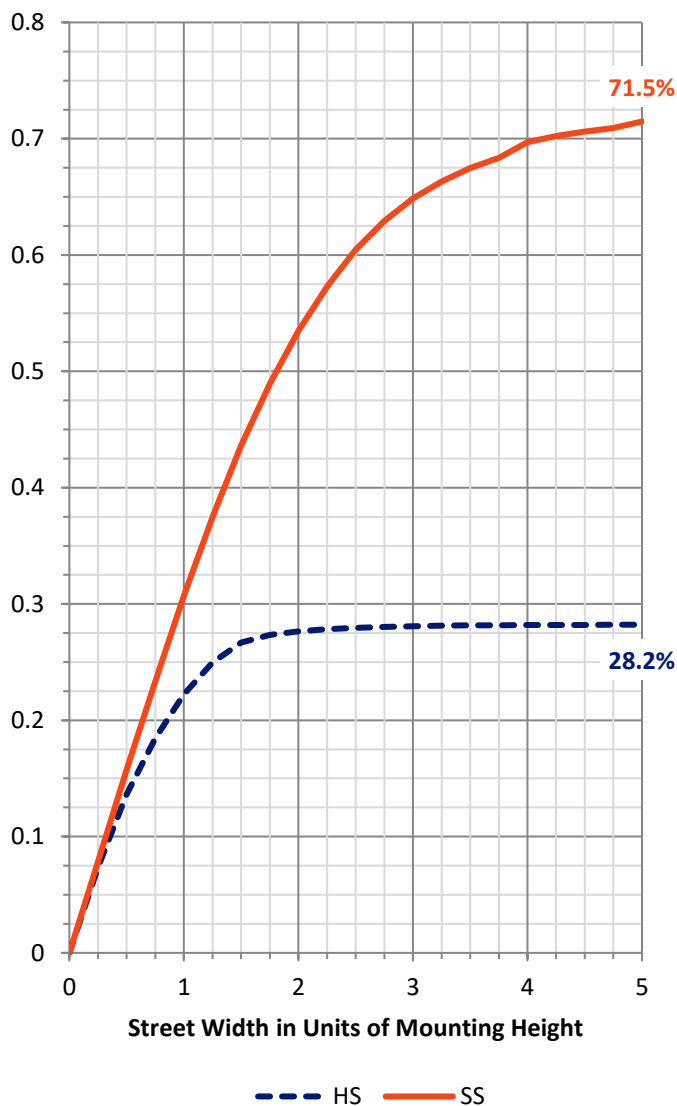
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15174.8	0.2	15175.0
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	38298.8	68.2	38367.0
	% Fixture	71.5	0.1	71.7
Total	Lumens	53473.6	68.4	53542.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.1	1.1
10°-20°	1872.1	3.5
20°-30°	3099.9	5.8
30°-40°	4879.7	9.1
40°-50°	7636.8	14.3
50°-60°	11026.3	20.6
60°-70°	13659.6	25.5
70°-80°	9948.0	18.6
80°-90°	743.2	1.4
90°-100°	58.4	0.1
100°-110°	9.8	0.0
110°-120°	0.3	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°	53473.6	99.9
0°-180°	53542.0	100.0

Coefficient of Utilization

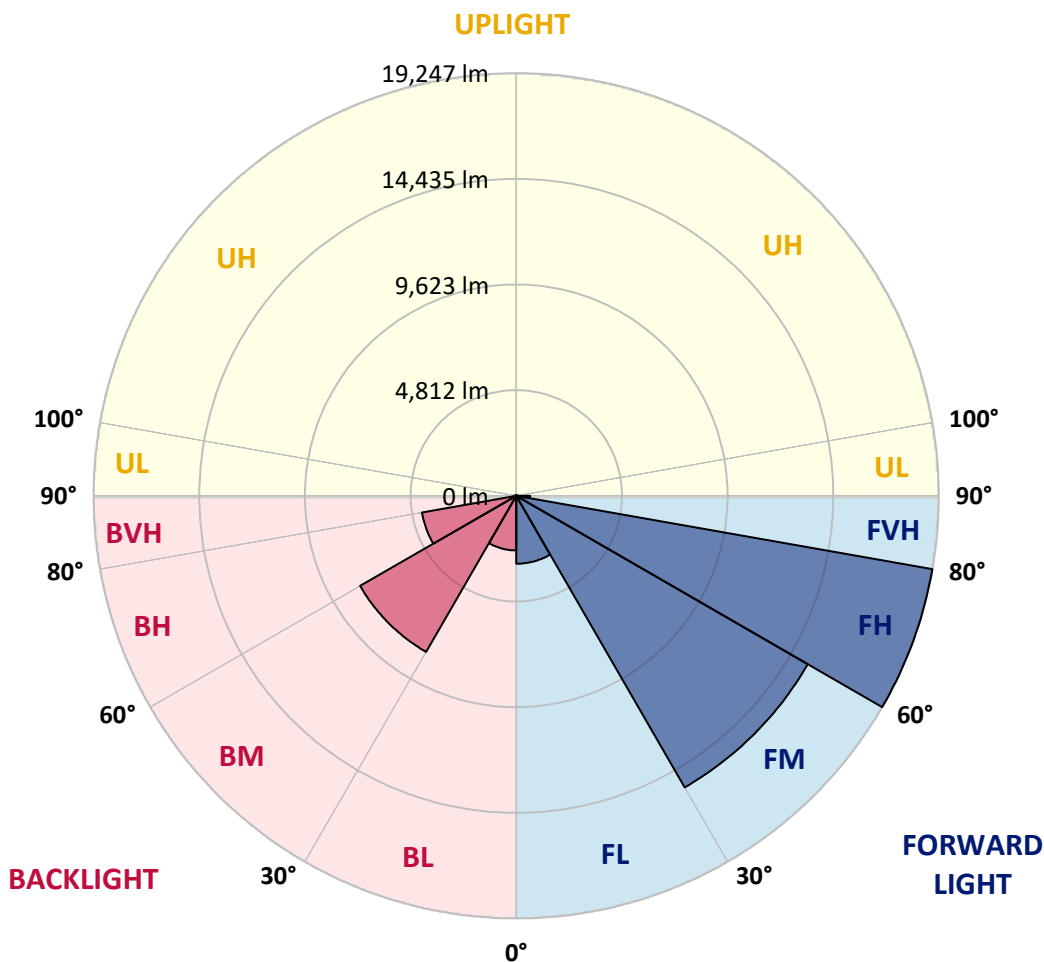


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3092.5	5.8			
FM (30°-60°)	15332.9	28.6			
FH (60°-80°)	19246.6	35.9			G5
FVH (80°-90°)	626.9	1.2			G4/750
BL (0°-30°)	2487.6	4.6	B3/2500		
BM (30°-60°)	8209.9	15.3	B4/8500		
BH (60°-80°)	4361.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	116.3	0.2			G2/225
UL (90°-100°)	58.4	0.1		U3/500	
UH (100°-180°)	10.1	0.0		U2/50	

BUG Rating: B4-U3-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9
2.5°	6421.3	6386.4	6386.4	6423.9	6319.3	6351.5	6308.6	6346.1	6324.7	6335.4	6348.8
5°	6458.8	6418.6	6421.3	6466.9	6373.0	6399.8	6348.8	6367.6	6348.8	6356.9	6356.9
7.5°	6528.6	6493.7	6493.7	6520.5	6426.6	6434.7	6389.1	6389.1	6364.9	6383.7	6367.6
10°	6660.1	6622.5	6603.7	6617.1	6534.0	6523.2	6461.5	6461.5	6423.9	6453.5	6429.3
12.5°	6818.4	6764.7	6759.4	6762.0	6668.1	6649.3	6579.6	6582.3	6512.5	6552.7	6523.2
15°	7008.9	6941.8	6936.5	6947.2	6847.9	6813.0	6735.2	6735.2	6657.4	6678.9	6638.6
17.5°	7253.1	7175.3	7161.9	7180.6	7081.4	7049.2	6957.9	6941.8	6856.0	6839.9	6805.0
20°	7575.1	7486.5	7459.7	7500.0	7373.8	7344.3	7234.3	7199.4	7084.0	6893.5	6644.0
22.5°	7864.9	7795.1	7779.0	7805.9	7690.5	7661.0	7553.6	7481.2	7202.1	6818.4	6587.6
25°	8194.9	8168.1	8160.1	8144.0	8039.3	7988.3	7886.4	7784.4	7151.1	6625.2	6619.8
27.5°	8602.8	8589.4	8551.8	8538.4	8423.0	8390.8	8256.7	7599.2	6968.7	6931.1	6909.6
30°	9048.3	9021.4	8983.9	8986.5	8908.7	8849.7	8530.4	7435.6	7320.2	7320.2	7263.8
32.5°	9542.0	9512.5	9474.9	9483.0	9450.8	9399.8	8439.1	7867.6	7779.0	7803.2	7733.4
35°	10153.8	10105.5	10092.1	10124.3	10127.0	9796.9	8600.1	8455.2	8385.5	8369.4	8106.4
37.5°	10867.6	10827.3	10875.6	10950.7	10864.9	9898.9	9241.5	9195.8	9126.1	8737.0	8114.4
40°	11723.6	11651.1	11710.1	11758.4	11702.1	10505.3	9915.0	9931.1	9869.4	8715.5	8025.9
42.5°	12571.5	12501.7	12552.7	12673.5	12652.0	11256.6	10736.1	10771.0	10148.4	8766.5	8712.8
45°	13620.7	13596.5	13580.4	13679.7	13762.9	12155.6	11710.1	11707.5	9949.9	9576.9	9528.6
47.5°	14809.4	14777.2	14785.3	14911.4	15037.5	13228.9	12861.3	11782.6	10462.4	10499.9	10457.0
50°	16135.0	16100.1	16204.7	16387.2	16451.6	14433.7	13982.9	11578.6	11530.3	11570.6	11498.1
52.5°	17817.4	17739.6	17900.6	18096.5	18179.7	15858.6	14044.6	12783.5	12703.0	12711.0	12480.3
55°	19730.7	19668.9	19813.8	20033.9	20157.3	17449.8	15327.3	13956.1	13907.8	12539.3	11291.5
57.5°	21810.3	21740.5	21933.7	21998.1	22030.3	19094.7	16618.0	15228.0	12992.8	11449.8	11380.1
60°	23849.6	23774.5	24018.7	24029.4	24123.3	20736.9	17844.3	16454.3	12517.8	12313.9	12254.9
62.5°	25990.9	25897.0	26111.7	26103.6	25918.5	22239.6	19059.8	17632.3	13365.8	13204.8	13113.5
65°	28368.4	28298.6	28448.9	28207.4	27839.7	23793.3	20321.0	18914.9	14353.2	14323.7	14302.2
67.5°	31497.1	31360.3	31057.1	30541.9	29838.8	25218.1	21222.6	19760.2	15155.6	15018.7	14975.8
70°	30238.7	30077.7	29846.9	29280.7	28564.2	23879.1	19773.6	18482.9	14170.8	14176.1	14074.2
72.5°	26774.5	26495.4	26278.0	25483.8	25089.3	20855.0	17229.8	16041.1	12257.5	12485.6	12437.3
75°	21120.6	20836.2	20479.3	20168.0	20125.1	16915.8	13891.7	13035.7	9772.8	9939.1	10059.9
77.5°	13690.4	13585.8	14036.6	13741.4	14007.1	11648.4	9923.0	9187.8	6735.2	7156.5	7100.1
80°	6265.6	6144.9	6869.4	6665.4	6764.7	5720.9	4848.8	4658.3	3048.3	3069.8	3134.2
82.5°	1416.8	1368.5	1419.5	1304.1	1271.9	1076.0	947.2	858.7	539.4	571.6	601.1
85°	775.5	775.5	764.8	711.1	609.1	501.8	397.1	305.9	166.4	182.5	179.8
87.5°	544.7	531.3	528.6	472.3	405.2	343.5	273.7	195.9	93.9	64.4	59.0
90°	373.0	367.6	348.8	314.0	271.0	222.7	166.4	96.6	40.3	18.8	13.4
92.5°	271.0	265.7	252.2	222.7	185.2	150.3	110.0	64.4	32.2	13.4	2.7
95°	179.8	177.1	169.1	144.9	120.8	96.6	69.8	40.3	26.8	10.7	2.7
97.5°	123.4	120.8	112.7	96.6	77.8	61.7	42.9	29.5	21.5	8.1	2.7
100°	83.2	80.5	75.1	61.7	48.3	37.6	26.8	21.5	16.1	8.1	2.7
102.5°	53.7	51.0	45.6	37.6	26.8	21.5	18.8	16.1	10.7	5.4	2.7
105°	32.2	29.5	24.2	18.8	16.1	13.4	13.4	10.7	8.1	2.7	2.7
107.5°	16.1	13.4	10.7	10.7	10.7	8.1	8.1	8.1	5.4	2.7	0.0
110°	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9	6305.9
2.5°	6335.4	6292.5	6316.6	6279.0	6271.0	6230.7	6295.1	6303.2	6297.8	6308.6
5°	6343.4	6297.8	6324.7	6279.0	6279.0	6236.1	6297.8	6297.8	6281.7	6287.1
7.5°	6364.9	6319.3	6338.1	6287.1	6289.8	6238.8	6313.9	6305.9	6292.5	6311.2
10°	6426.6	6375.6	6373.0	6324.7	6335.4	6281.7	6375.6	6375.6	6362.2	6397.1
12.5°	6525.9	6450.8	6437.4	6378.3	6399.8	6354.2	6469.6	6474.9	6477.6	6534.0
15°	6630.6	6539.3	6552.7	6483.0	6474.9	6450.8	6555.4	6550.1	6547.4	6625.2
17.5°	6778.1	6348.8	6279.0	6230.7	6220.0	6161.0	6257.6	6442.7	6346.1	6292.5
20°	6544.7	6319.3	6042.9	5949.0	5930.2	5417.7	5012.5	5195.0	5441.8	5463.3
22.5°	6332.7	6252.2	6230.7	6083.2	5264.7	5093.0	5109.1	5042.0	4457.0	4202.1
25°	6595.7	6525.9	6434.7	5533.1	5339.9	5278.1	5259.4	4572.4	4110.9	4140.4
27.5°	6888.2	6810.3	6016.1	5546.5	5589.4	5503.5	5079.6	4266.5	4239.7	4290.7
30°	7253.1	6630.6	5871.2	5844.3	5884.6	5774.6	4513.4	4454.4	4446.3	4500.0
32.5°	7669.0	6394.4	6257.6	6257.6	6238.8	5050.1	4754.9	4714.6	4736.1	4792.5
35°	7513.4	6764.7	6748.6	6815.7	6364.9	5181.5	5141.3	5071.5	5087.6	5106.4
37.5°	7341.6	7373.8	7381.9	7347.0	4642.2	5557.2	5525.0	5511.6	5495.5	5500.9
40°	7980.3	8001.7	7993.7	7674.4	5009.8	5629.7	5959.7	5935.6	5932.9	5965.1
42.5°	8726.2	8785.3	8739.7	6770.1	5500.9	4733.4	6461.5	6448.1	6442.7	6509.8
45°	9566.1	9622.5	8664.5	7250.4	6024.1	4899.8	6496.4	6995.5	7035.7	7094.8
47.5°	10475.8	10465.1	7996.4	7988.3	6638.6	5361.3	5401.6	7650.2	7717.3	7738.8
50°	11522.3	9802.3	8755.8	8460.6	7333.6	5879.2	5726.3	7019.6	8500.8	8522.3
52.5°	11299.6	9697.6	9627.9	7422.1	7956.1	6450.8	6300.5	6260.3	8812.1	9330.0
55°	10532.1	10612.6	10513.4	8144.0	5833.6	6960.6	6866.7	6826.4	6555.4	5189.6
57.5°	11385.4	11409.6	11323.7	8806.8	5932.9	4339.0	6759.4	5798.7	3767.4	3748.6
60°	12271.0	12311.2	8433.8	6469.6	3802.3	1451.7	346.2	364.9	1041.1	915.0
62.5°	13116.2	13156.5	8927.5	5911.4	2401.6	107.3	69.8	48.3	53.7	53.7
65°	14219.1	14235.2	9555.4	6257.6	2495.5	26.8	8.1	0.0	0.0	0.0
67.5°	14790.6	14460.6	9713.7	6415.9	2562.6	16.1	5.4	0.0	0.0	0.0
70°	13926.6	13572.4	9042.9	6013.4	2388.2	13.4	2.7	0.0	0.0	0.0
72.5°	12271.0	12099.2	8117.1	5331.8	2114.5	8.1	2.7	0.0	0.0	0.0
75°	10169.9	9941.8	6729.8	4443.6	1749.5	5.4	0.0	0.0	0.0	0.0
77.5°	7234.3	7261.1	4690.5	3238.8	1191.4	5.4	0.0	0.0	0.0	0.0
80°	3166.4	3238.8	2055.4	1486.6	421.3	2.7	0.0	0.0	0.0	0.0
82.5°	603.8	555.5	268.3	212.0	53.7	0.0	0.0	0.0	0.0	0.0
85°	198.6	217.4	99.3	80.5	24.2	0.0	0.0	0.0	0.0	0.0
87.5°	69.8	88.6	29.5	24.2	5.4	0.0	0.0	0.0	0.0	0.0
90°	10.7	10.7	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
95°	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
100°	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
105°	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
110°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)