

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: P579391

Luminaire Tested: **CTN-CA10-630-722-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-CA10-630-722-U-T5N-HSS-HM-EX120
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: 59070 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

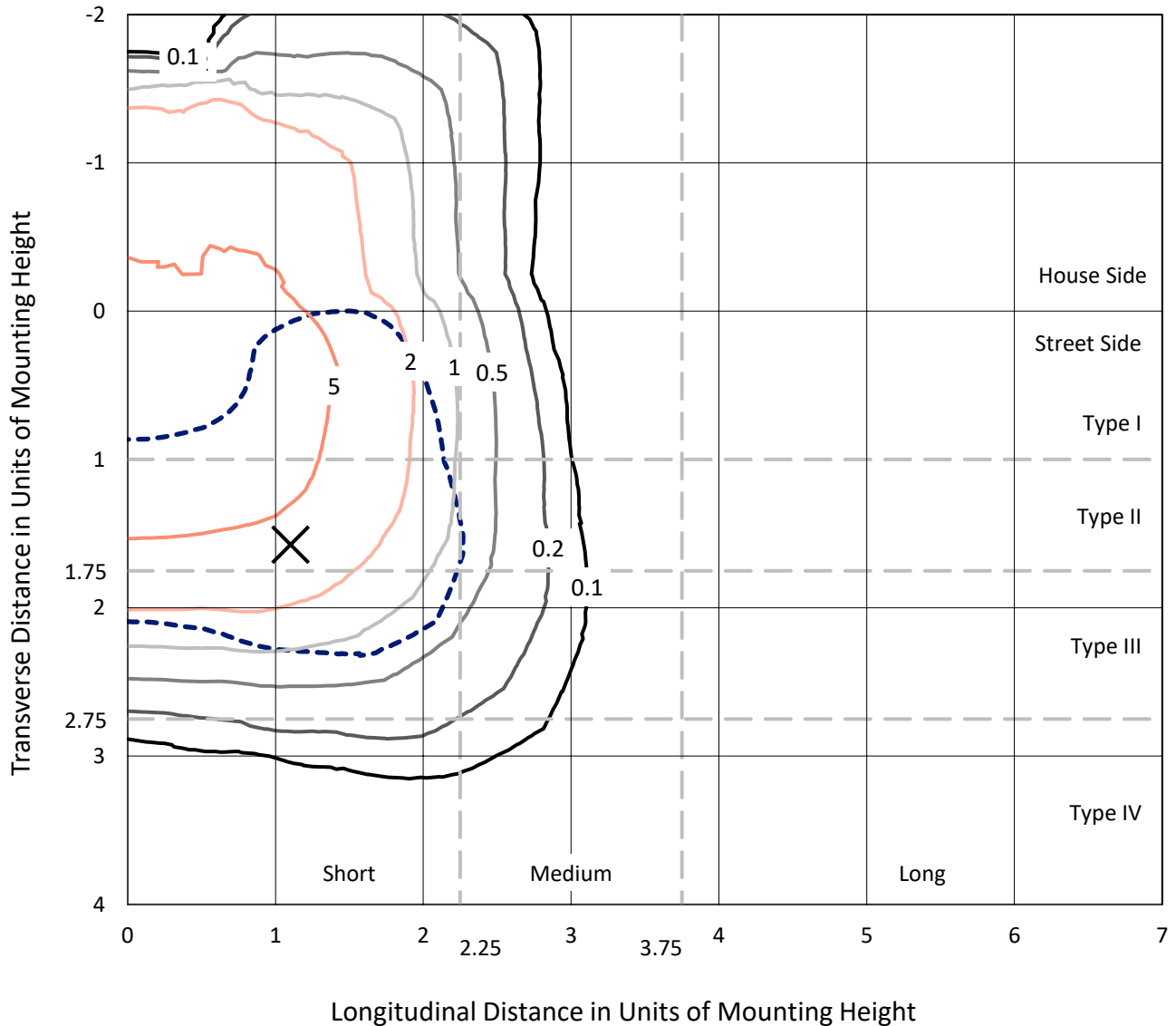
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

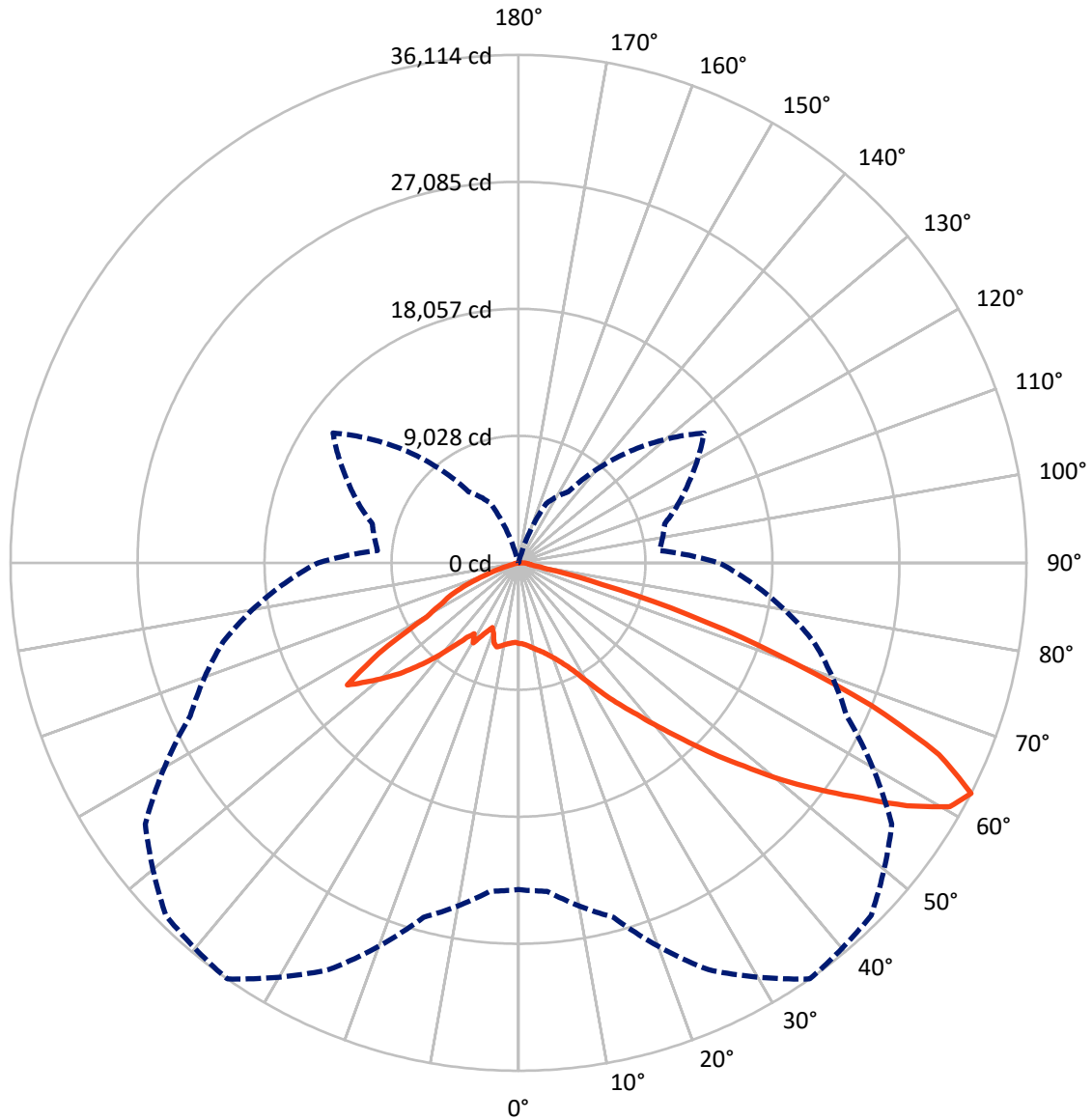
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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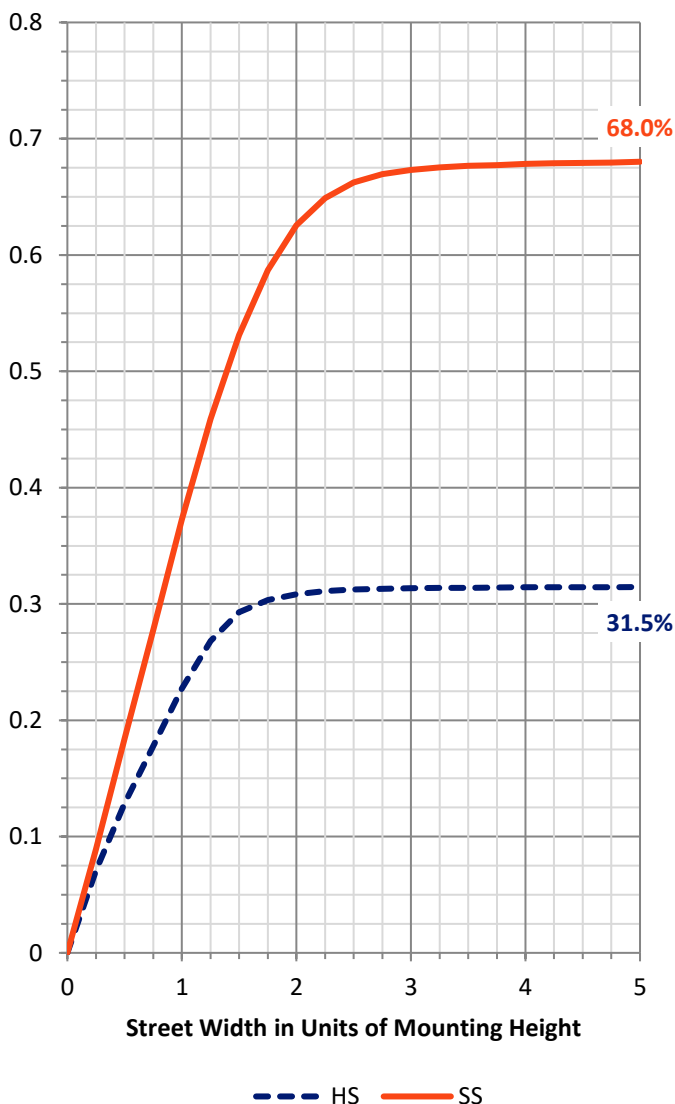
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18687.2	0.0	18687.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	40349.0	33.7	40382.7
	% Fixture	68.3	0.1	68.4
Total	Lumens	59036.3	33.7	59070.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.4	1.0
10°-20°	1817.9	3.1
20°-30°	3375.6	5.7
30°-40°	6655.2	11.3
40°-50°	11946.8	20.2
50°-60°	17365.9	29.4
60°-70°	14272.0	24.2
70°-80°	2712.9	4.6
80°-90°	324.7	0.5
90°-100°	30.7	0.1
100°-110°	3.0	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°	59036.3	99.9
0°-180°	59070.0	100.0

Coefficient of Utilization



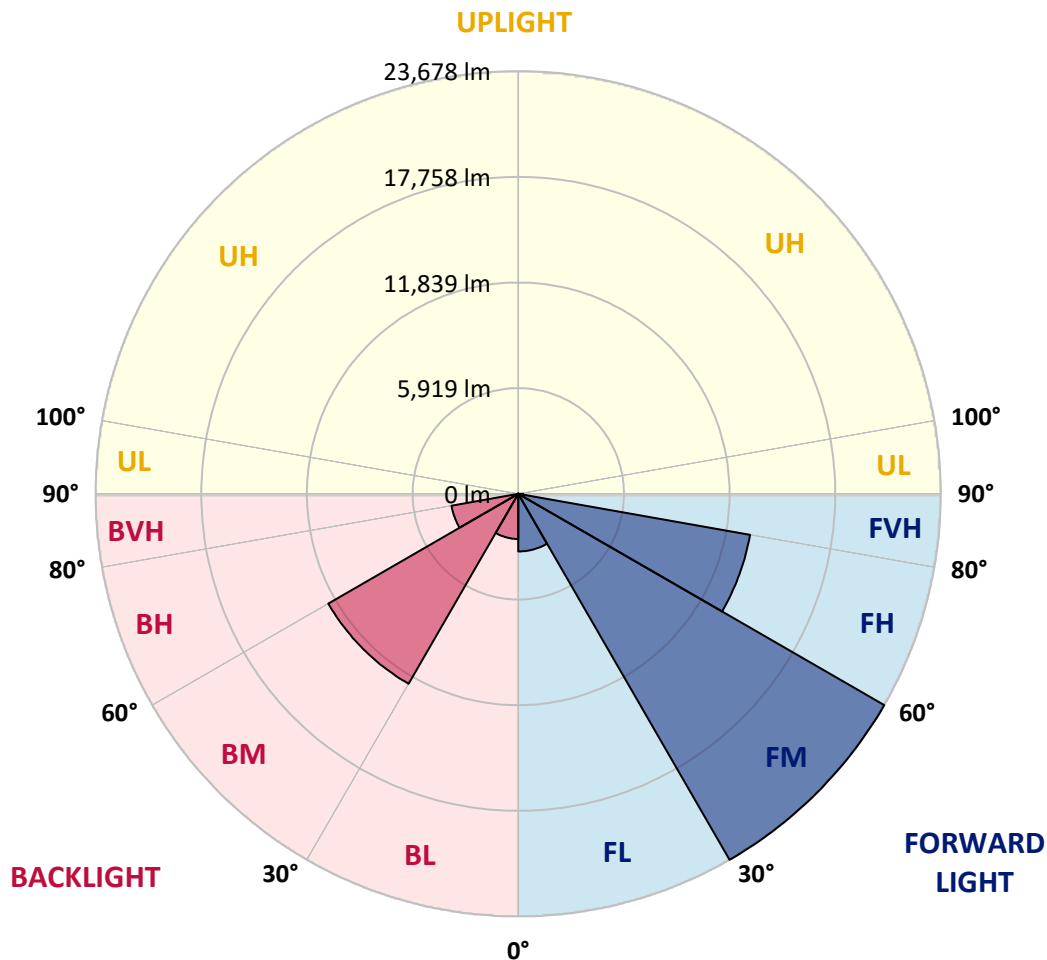
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3228.5	5.5			
FM (30°-60°)	23678.0	40.1			
FH (60°-80°)	13185.8	22.3			G5
FVH (80°-90°)	256.8	0.4			G3/500
BL (0°-30°)	2530.3	4.3	B4/5000		
BM (30°-60°)	12289.9	20.8	B5		
BH (60°-80°)	3799.1	6.4	B4/5000		G4/5000
BVH (80°-90°)	68.0	0.1			G1/100
UL (90°-100°)	30.7	0.1		U2/50	
UH (100°-180°)	3.0	0.0		U1/10	

BUG Rating: B5-U2-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7
2.5°	5880.1	5832.1	5836.9	5872.9	5764.9	5800.9	5750.5	5793.7	5774.5	5793.7	5805.7
5°	5997.8	5937.7	5935.3	5971.4	5884.9	5906.5	5848.9	5877.7	5851.3	5875.3	5875.3
7.5°	6141.8	6091.4	6079.4	6108.2	6031.4	6041.0	5983.4	5995.4	5964.2	5995.4	5971.4
10°	6321.9	6276.3	6257.1	6271.5	6201.9	6206.7	6144.2	6149.0	6103.4	6129.8	6110.6
12.5°	6511.6	6449.2	6439.6	6463.6	6391.5	6381.9	6329.1	6333.9	6283.5	6307.5	6293.1
15°	6708.5	6643.6	6646.0	6670.1	6598.0	6602.8	6547.6	6557.2	6506.8	6530.8	6511.6
17.5°	6970.2	6905.4	6900.6	6943.8	6883.7	6903.0	6845.3	6857.3	6821.3	6826.1	6804.5
20°	7344.7	7260.7	7243.9	7306.3	7227.1	7251.1	7219.9	7260.7	7246.3	7234.3	7217.5
22.5°	7791.3	7726.5	7692.9	7740.9	7647.3	7692.9	7709.7	7793.7	7815.3	7800.9	7536.8
25°	8389.2	8355.6	8322.0	8300.4	8187.5	8259.5	8346.0	8485.2	8576.5	8612.5	8245.1
27.5°	9195.9	9212.7	9066.3	9042.3	8915.0	9027.9	9183.9	9409.6	9594.5	9661.7	9167.1
30°	10233.2	10254.8	10055.5	9997.9	9921.0	10017.1	10307.6	10554.9	10828.6	10941.5	10281.2
32.5°	11611.4	11592.2	11299.2	11188.8	11119.2	11157.6	11462.5	11801.1	12108.4	12362.9	11551.3
35°	13294.5	13234.5	12922.3	12617.4	12341.3	12458.9	12682.2	13092.8	13558.6	13933.2	12804.7
37.5°	15248.9	15191.3	14715.9	14218.9	13673.9	13724.3	13923.6	14593.5	15193.7	15292.2	12591.0
40°	17268.2	17244.2	16795.2	16163.7	15316.2	15078.5	15342.6	16158.9	16792.8	15076.1	13088.0
42.5°	19285.1	19169.8	18917.7	18286.2	17157.7	16634.3	16989.7	17806.0	18487.9	15806.0	14240.5
45°	21318.7	21201.1	20987.4	20524.0	19349.9	18588.8	18692.0	19597.2	20214.3	17174.6	15441.0
47.5°	23124.3	23037.9	22884.2	22624.9	21578.0	20888.9	20689.7	21323.5	21743.7	18286.2	16363.0
50°	24680.2	24605.7	24665.8	24579.3	24272.0	23549.3	22891.4	22850.6	23052.3	19275.5	17210.6
52.5°	26048.8	25947.9	26204.8	26509.8	26793.1	26632.2	25040.3	24298.4	24115.9	20017.4	17779.6
55°	27179.6	27143.6	27585.4	28409.0	29487.0	29909.6	27338.1	25635.8	25066.7	20646.4	17832.4
57.5°	27856.7	27943.2	28877.2	30471.5	32579.6	32778.8	30027.3	27057.2	25904.7	21028.2	18084.5
60°	26699.4	26992.4	28673.1	32017.7	35211.1	35297.5	31960.1	27340.5	24807.4	19654.8	16737.6
62.5°	23232.4	23443.6	26087.2	31919.3	36113.9	35456.0	32392.3	25741.4	21741.3	16672.7	14235.7
65°	16415.8	16660.7	19846.9	28783.5	32855.7	32879.7	29671.9	22259.9	17378.6	12907.9	10991.9
67.5°	9901.8	10298.0	13316.1	20896.2	27052.4	27544.6	24754.6	16852.8	12437.3	8427.6	7114.2
70°	3248.6	3611.1	6079.4	12367.7	19501.2	21609.3	18591.2	10951.1	6494.8	3563.1	2869.2
72.5°	1287.0	1452.6	2141.7	5469.5	12567.0	14427.8	11455.3	5291.9	2180.1	946.0	823.6
75°	859.6	876.4	989.2	1863.2	6149.0	7889.8	5522.4	1539.1	809.1	590.7	518.6
77.5°	749.1	751.5	801.9	982.0	2002.5	3025.3	1589.5	826.0	669.9	485.0	429.8
80°	686.7	696.3	727.5	838.0	917.2	1027.6	785.1	689.1	581.0	446.6	405.8
82.5°	657.9	665.1	684.3	758.7	741.9	770.7	633.9	547.4	489.8	410.6	389.0
85°	600.3	612.3	624.3	669.9	609.9	528.2	489.8	367.4	350.6	309.7	285.7
87.5°	453.8	451.4	439.4	446.6	408.2	333.7	276.1	206.5	168.1	139.3	115.2
90°	189.7	192.1	184.9	175.3	153.7	127.3	96.0	57.6	28.8	9.6	4.8
92.5°	144.1	146.5	141.7	127.3	110.4	88.8	64.8	33.6	19.2	7.2	2.4
95°	88.8	91.2	86.4	76.8	67.2	50.4	33.6	21.6	12.0	4.8	0.0
97.5°	52.8	55.2	50.4	45.6	36.0	24.0	19.2	14.4	9.6	4.8	0.0
100°	31.2	31.2	28.8	24.0	16.8	14.4	12.0	9.6	7.2	2.4	0.0
102.5°	14.4	14.4	14.4	9.6	7.2	7.2	7.2	7.2	7.2	2.4	0.0
105°	4.8	4.8	2.4	2.4	2.4	4.8	4.8	4.8	4.8	2.4	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	4.8	2.4	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	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°	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7
2.5°	5793.7	5748.1	5755.3	5714.4	5704.8	5661.6	5738.5	5745.7	5724.1	5745.7
5°	5865.7	5810.5	5824.9	5779.3	5767.3	5707.2	5769.7	5764.9	5748.1	5769.7
7.5°	5971.4	5908.9	5916.1	5863.3	5851.3	5784.1	5841.7	5824.9	5805.7	5832.1
10°	6105.8	6045.8	6048.2	5976.2	5969.0	5892.1	5966.6	5935.3	5906.5	5944.9
12.5°	6293.1	6209.1	6201.9	6122.6	6120.2	6041.0	6117.8	6091.4	6053.0	6113.0
15°	6509.2	6396.3	6367.5	6266.7	6264.3	6180.2	6257.1	6216.3	6197.1	6269.1
17.5°	6790.1	6648.4	6430.0	6086.6	5930.5	5957.0	6228.3	6326.7	6069.8	6108.2
20°	6960.6	6273.9	5954.6	5812.9	5738.5	5311.1	4732.4	4780.4	5349.5	5620.8
22.5°	6672.5	6468.4	6350.7	6151.4	5114.2	4967.7	5001.3	4991.7	4257.0	4038.5
25°	7272.7	7080.6	6866.9	5637.6	5423.9	5361.5	5378.3	4689.2	4288.2	4305.0
27.5°	8137.1	7889.8	6535.6	6002.6	5959.4	5868.1	5536.8	4708.4	4758.8	4792.5
30°	9229.6	8350.8	6960.6	6727.7	6641.2	6542.8	5138.2	5260.7	5354.3	5457.5
32.5°	10286.0	8122.7	7774.5	7532.0	7397.6	5940.1	5796.1	6021.8	6115.4	6204.3
35°	10190.0	9099.9	8648.5	8341.2	8089.1	6410.7	6538.0	6881.3	7128.7	7126.3
37.5°	10454.1	10163.6	9642.5	9253.6	7020.6	7181.5	7448.0	7839.4	8139.5	8137.1
40°	11556.2	11241.6	10751.8	9916.2	7779.3	8153.9	8518.8	8886.2	9102.3	9119.1
42.5°	12651.0	12408.5	11966.7	8759.0	8708.5	9227.2	9608.9	9841.8	9973.9	10019.5
45°	13741.1	13513.0	11757.8	9688.2	9841.8	10355.6	10588.5	10634.2	10775.8	10771.0
47.5°	14607.9	14413.4	10816.6	10792.6	11174.4	11529.7	11455.3	11397.7	11433.7	11452.9
50°	15407.4	12547.8	11661.8	12012.3	12593.4	12636.6	12326.9	9765.0	12089.2	12048.4
52.5°	14312.5	12245.2	12449.3	13270.5	14259.7	13757.9	13152.8	8559.7	11337.7	12415.7
55°	12523.8	12730.3	13191.3	14569.4	15546.7	14951.2	13940.4	8814.2	7524.8	6125.0
57.5°	12773.5	13100.0	13976.4	15880.4	16732.8	11841.9	13011.2	6213.9	4206.6	4204.2
60°	11894.7	12389.3	13959.6	16468.7	13544.2	7587.3	5212.6	141.7	816.3	809.1
62.5°	10055.5	10759.0	13318.5	16096.5	11220.0	6165.8	4643.6	12.0	4.8	4.8
65°	7776.9	8605.3	11104.8	13938.0	9940.3	5311.1	3447.9	0.0	0.0	0.0
67.5°	5099.8	5868.1	8338.8	11577.8	8252.3	4014.5	2317.0	0.0	0.0	0.0
70°	2124.9	3073.3	5181.4	8367.6	6069.8	2629.1	1099.7	0.0	0.0	0.0
72.5°	614.7	936.4	2333.8	4996.5	3767.2	1375.8	408.2	0.0	0.0	0.0
75°	405.8	427.4	705.9	2009.7	1832.0	504.2	165.7	0.0	0.0	0.0
77.5°	340.9	350.6	449.0	561.8	588.3	199.3	134.5	0.0	0.0	0.0
80°	314.5	316.9	403.4	417.8	314.5	165.7	132.1	0.0	0.0	0.0
82.5°	292.9	285.7	343.3	331.3	261.7	144.1	122.5	0.0	0.0	0.0
85°	201.7	206.5	232.9	295.3	158.5	72.0	86.4	0.0	0.0	0.0
87.5°	62.4	72.0	91.2	93.6	28.8	9.6	0.0	0.0	0.0	0.0
90°	2.4	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
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)