

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: P579484

Luminaire Tested: **CTN-CA10-630-740-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-740-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67833 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

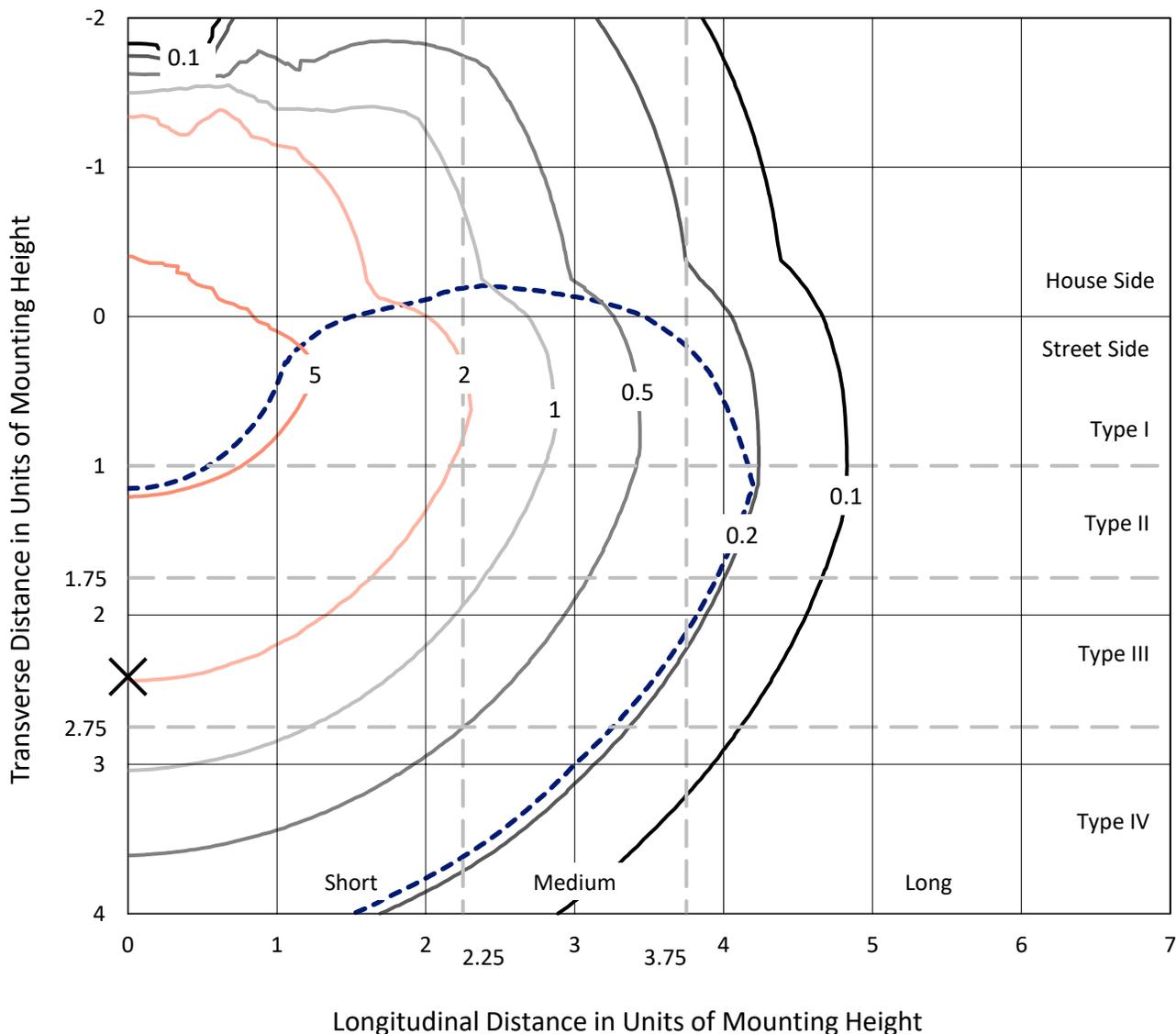
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

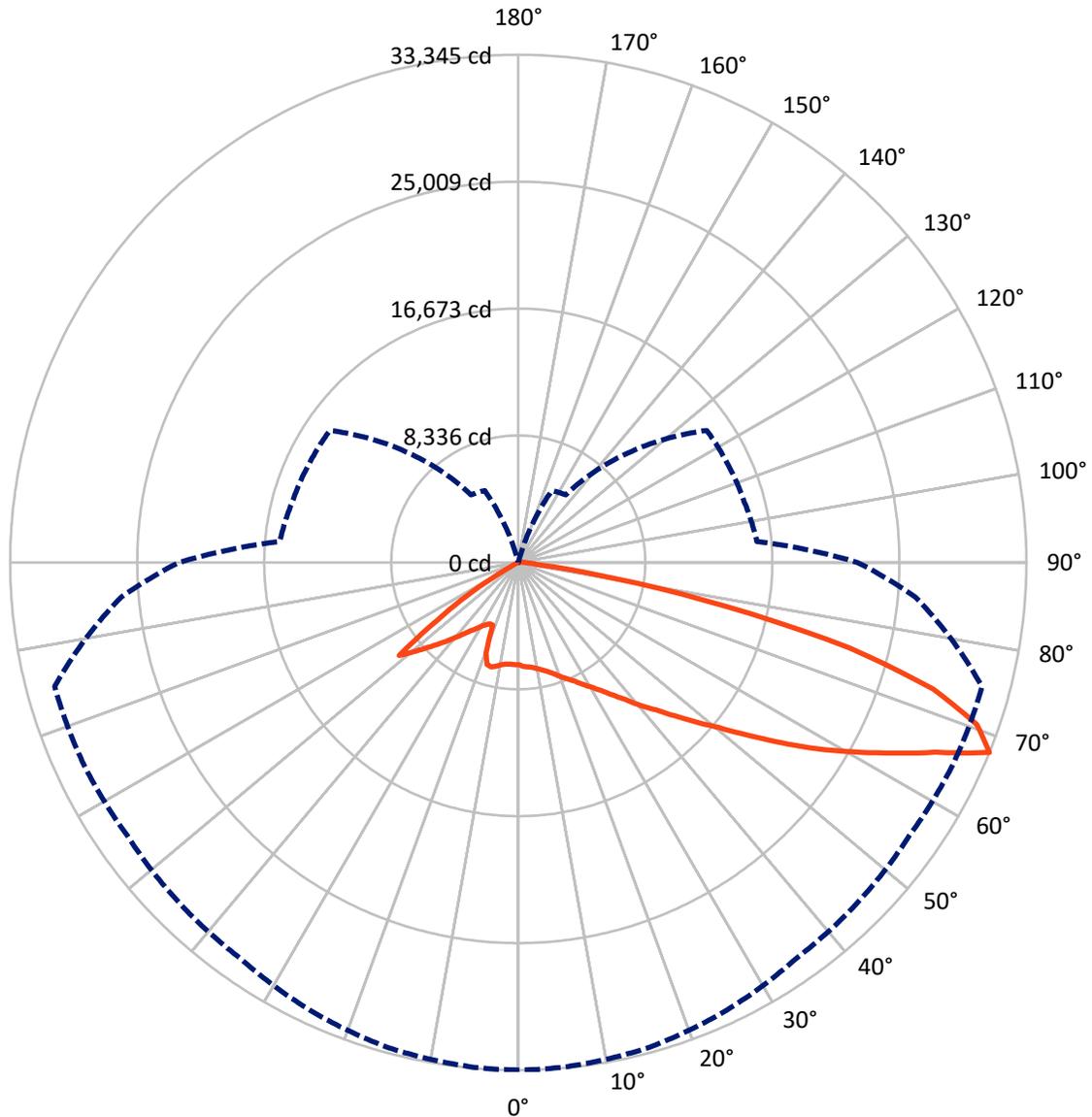
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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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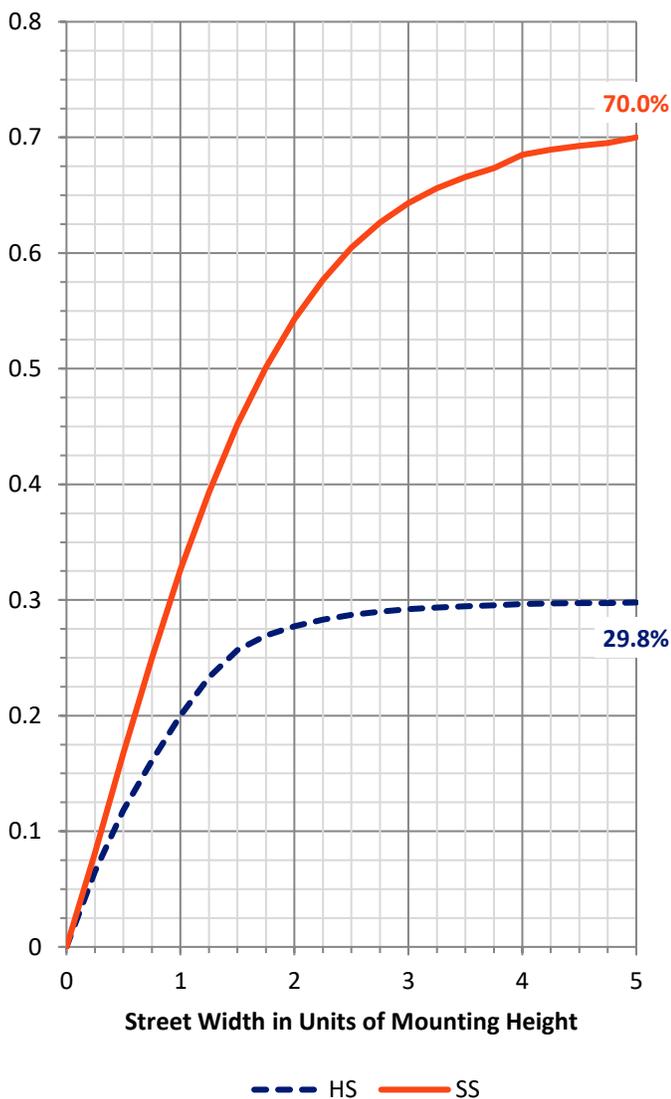
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20248.5	6.8	20255.3
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	47501.3	76.4	47577.7
	% Fixture	70.0	0.1	70.1
Total	Lumens	67749.8	83.2	67833.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.0	1.0
10°-20°	2006.1	3.0
20°-30°	3366.6	5.0
30°-40°	5459.2	8.0
40°-50°	8920.9	13.2
50°-60°	13980.6	20.6
60°-70°	18724.3	27.6
70°-80°	13647.5	20.1
80°-90°	996.6	1.5
90°-100°	63.7	0.1
100°-110°	18.1	0.0
110°-120°	1.3	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°	67749.8	99.9
0°-180°	67833.0	100.0

Coefficient of Utilization



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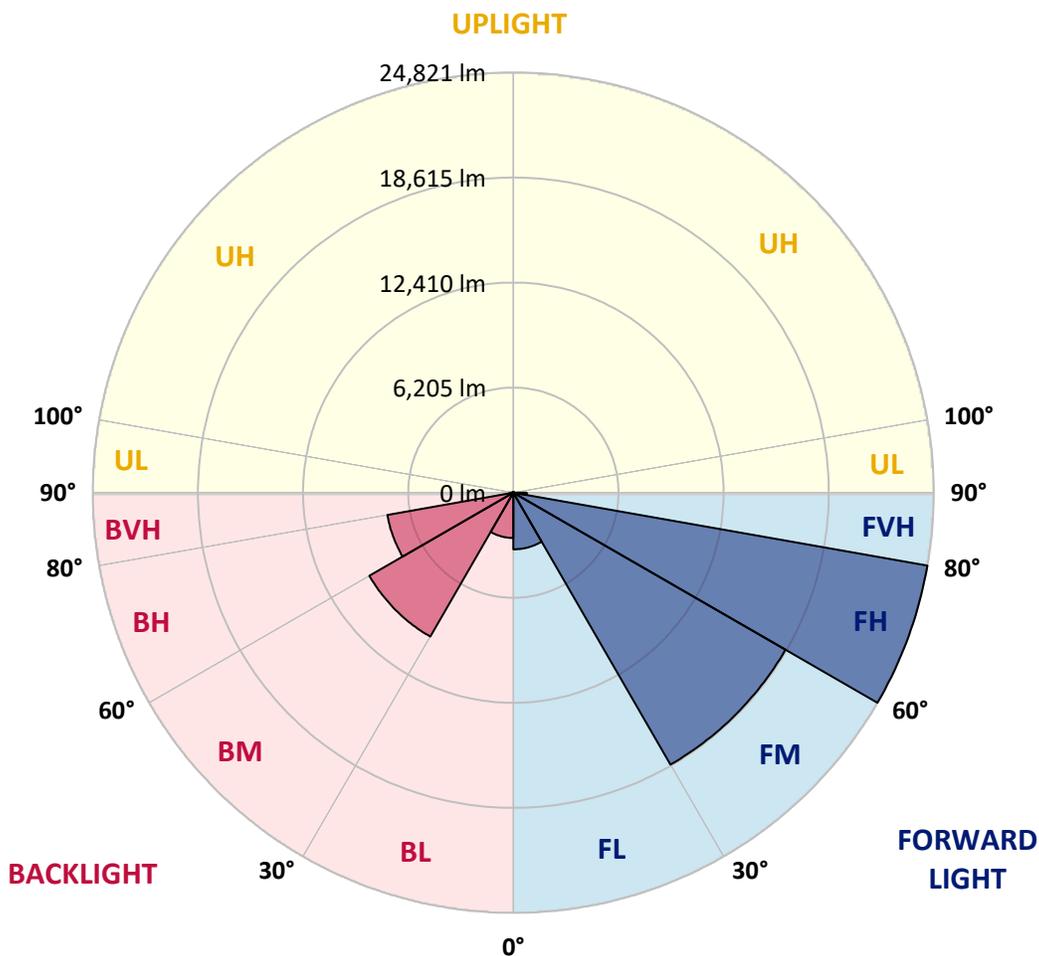
CATALOG NUMBER: CTN-CA10-630-740-U-T5-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3345.9	4.9			
FM (30°-60°)	18546.8	27.3			
FH (60°-80°)	24820.5	36.6			G5
FVH (80°-90°)	788.1	1.2			G5
BL (0°-30°)	2674.9	3.9	B4/5000		
BM (30°-60°)	9813.9	14.5	B5		
BH (60°-80°)	7551.3	11.1	B5		G5
BVH (80°-90°)	208.5	0.3			G2/225
UL (90°-100°)	63.7	0.1		U3/500	
UH (100°-180°)	19.4	0.0		U2/50	

BUG Rating: B5-U3-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5
2.5°	6849.8	6809.9	6812.7	6849.8	6738.6	6775.7	6727.2	6764.3	6738.6	6747.1	6764.3
5°	6892.6	6849.8	6852.7	6898.3	6798.5	6829.8	6764.3	6784.2	6761.4	6772.8	6772.8
7.5°	6978.1	6929.7	6926.8	6955.3	6852.7	6864.1	6804.2	6807.0	6772.8	6795.6	6784.2
10°	7106.5	7066.5	7038.0	7055.1	6963.9	6958.2	6881.2	6884.0	6841.2	6866.9	6847.0
12.5°	7263.3	7209.1	7203.4	7209.1	7109.3	7086.5	7006.6	7012.4	6935.4	6975.3	6952.5
15°	7462.9	7377.4	7377.4	7408.7	7280.4	7263.3	7166.3	7172.0	7092.2	7123.6	7100.8
17.5°	7708.2	7625.5	7611.2	7634.0	7522.8	7500.0	7400.2	7394.5	7306.1	7314.6	7294.7
20°	8024.7	7942.0	7907.8	7964.8	7825.1	7808.0	7688.2	7676.8	7582.7	7557.0	7545.6
22.5°	8318.4	8252.8	8235.7	8298.5	8153.0	8138.8	8024.7	8010.4	7922.0	7885.0	7659.7
25°	8649.2	8635.0	8629.3	8649.2	8512.3	8483.8	8395.4	8375.5	8301.3	8255.7	7981.9
27.5°	9077.0	9071.3	9054.2	9057.0	8931.5	8905.9	8823.2	8808.9	8731.9	8680.6	8329.8
30°	9524.7	9524.7	9487.6	9507.6	9444.9	9404.9	9339.3	9288.0	9239.5	9185.4	8743.3
32.5°	10040.9	10038.0	10003.8	10063.7	10018.1	10018.1	9978.1	9923.9	9838.4	9812.7	9276.6
35°	10705.3	10662.5	10648.3	10745.2	10731.0	10756.6	10742.4	10685.4	10614.1	10554.2	9904.0
37.5°	11441.1	11429.6	11472.4	11532.3	11563.7	11632.1	11589.3	11586.5	11575.1	11423.9	9735.7
40°	12347.9	12299.4	12359.3	12390.7	12367.9	12479.1	12442.0	12473.4	12558.9	11344.1	9724.3
42.5°	13251.9	13209.1	13251.9	13405.9	13371.7	13505.7	13488.6	13611.2	13659.7	11512.3	10514.2
45°	14364.1	14315.6	14349.8	14532.3	14549.4	14712.0	14800.4	14917.3	14940.1	12601.7	11466.7
47.5°	15641.6	15561.8	15627.4	15712.9	15972.4	16126.4	16212.0	16354.5	16500.0	13913.5	12550.4
50°	17050.4	17044.7	17116.0	17264.2	17560.8	17714.8	17863.1	18011.4	18250.9	15376.4	13765.2
52.5°	18841.2	18804.2	18926.8	19066.5	19328.9	19565.6	19742.4	19896.4	20153.0	16856.4	15079.8
55°	20888.8	20760.4	20994.3	21231.0	21342.2	21621.7	21744.3	21872.6	22117.8	18413.5	15846.9
57.5°	23098.8	23067.5	23230.0	23315.6	23555.1	23729.1	23794.7	23934.4	23931.5	20033.2	17153.0
60°	25274.7	25240.5	25431.5	25482.9	25673.9	25830.8	25808.0	25933.4	25979.1	21553.2	18433.4
62.5°	27564.6	27507.6	27684.4	27695.8	27581.7	27835.5	27809.9	27915.4	27875.4	23038.9	19693.9
65°	30068.4	30111.2	30168.2	29934.4	29660.6	29880.2	29874.5	30074.1	30216.7	25115.0	21382.1
67.5°	33345.0	33290.8	32997.1	32432.5	31768.0	31545.6	31308.9	31454.3	31494.3	26147.3	22246.2
70°	31930.6	31810.8	31679.6	31103.6	30302.2	29737.6	29369.7	29523.7	29686.3	24710.1	20894.5
72.5°	28482.9	28186.3	27576.0	27068.4	26606.4	26056.1	25608.3	25876.4	26232.9	21918.2	18501.9
75°	22471.5	22194.8	21750.0	21404.9	21156.8	21151.1	21131.2	21339.3	21288.0	17797.5	15042.8
77.5°	13916.3	14495.2	14905.9	14612.2	14714.8	14503.8	14968.6	15242.4	15490.5	12758.5	10716.7
80°	6424.9	6573.2	7300.4	7112.2	6961.0	6918.2	6946.8	7423.0	7562.7	5726.2	4796.6
82.5°	1465.8	1405.9	1457.2	1351.7	1346.0	1283.3	1291.8	1291.8	1246.2	1055.1	884.0
85°	741.4	758.6	764.3	732.9	647.3	581.7	539.0	456.3	393.5	336.5	285.2
87.5°	496.2	510.5	519.0	476.2	427.8	373.6	339.4	276.6	219.6	136.9	105.5
90°	339.4	336.5	327.9	305.1	273.8	233.8	188.2	131.2	77.0	28.5	20.0
92.5°	242.4	236.7	233.8	213.9	191.1	159.7	122.6	82.7	42.8	20.0	11.4
95°	159.7	156.8	156.8	145.4	128.3	105.5	82.7	54.2	31.4	17.1	11.4
97.5°	111.2	108.4	108.4	102.7	91.3	77.0	57.0	37.1	25.7	17.1	11.4
100°	77.0	77.0	77.0	71.3	65.6	54.2	42.8	28.5	22.8	17.1	11.4
102.5°	51.3	51.3	54.2	51.3	45.6	37.1	28.5	22.8	20.0	14.3	11.4
105°	34.2	34.2	34.2	34.2	31.4	25.7	22.8	20.0	17.1	14.3	11.4
107.5°	22.8	22.8	22.8	22.8	20.0	17.1	17.1	17.1	14.3	14.3	11.4
110°	14.3	14.3	14.3	17.1	14.3	14.3	14.3	14.3	14.3	11.4	11.4



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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°	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5	6721.5
2.5°	6750.0	6710.1	6730.0	6690.1	6673.0	6635.9	6707.2	6712.9	6707.2	6718.6
5°	6758.5	6712.9	6735.7	6690.1	6681.6	6638.8	6710.1	6710.1	6693.0	6701.5
7.5°	6778.5	6730.0	6747.1	6693.0	6693.0	6641.6	6727.2	6721.5	6707.2	6727.2
10°	6847.0	6789.9	6789.9	6738.6	6744.3	6690.1	6795.6	6795.6	6784.2	6818.4
12.5°	6952.5	6881.2	6884.0	6812.7	6824.1	6781.4	6909.7	6915.4	6915.4	6972.4
15°	7089.3	6981.0	6992.4	6915.4	6938.2	6886.9	7000.9	6995.2	7009.5	7092.2
17.5°	7257.6	7137.8	7038.0	6787.1	6638.8	6644.5	6983.8	7140.7	6958.2	7012.4
20°	7328.9	6747.1	6430.6	6339.3	6319.4	6002.8	5355.5	5455.3	6065.6	6330.8
22.5°	6849.8	6664.4	6633.1	6516.2	5652.1	5412.5	5452.5	5395.4	4796.6	4457.2
25°	7083.6	6961.0	6889.7	5860.3	5666.3	5623.6	5595.1	5053.2	4403.0	4434.4
27.5°	7414.4	7254.7	6399.2	5885.9	5923.0	5857.4	5692.0	4545.6	4525.7	4577.0
30°	7805.1	7403.0	6236.7	6188.2	6231.0	6145.4	4785.2	4739.5	4739.5	4790.9
32.5°	8284.2	6715.8	6618.8	6624.5	6596.0	5626.4	5036.1	5024.7	5058.9	5101.7
35°	8150.2	7163.5	7172.0	7220.5	7154.9	5503.8	5429.7	5386.9	5415.4	5432.5
37.5°	7887.8	7836.5	7836.5	7782.3	6108.4	5934.4	5854.6	5848.9	5846.0	5846.0
40°	8549.4	8500.9	8441.1	8346.9	6390.7	6436.3	6316.5	6302.3	6310.8	6342.2
42.5°	9302.3	9282.3	9276.6	7163.5	6978.1	7012.4	6884.0	6847.0	6847.0	6918.2
45°	10189.2	10163.5	9533.3	7656.8	7625.5	7665.4	7522.8	7434.4	7482.9	7534.2
47.5°	11207.2	11207.2	8441.1	8395.4	8395.4	8418.2	8275.7	8155.9	8204.4	8221.5
50°	12322.2	10579.8	9288.0	9245.2	9285.2	9273.8	9125.5	8013.3	9042.8	9051.3
52.5°	12633.1	10289.0	10217.7	10169.2	10217.7	10209.1	10055.1	6684.4	9781.4	9921.1
55°	11198.7	11207.2	11193.0	11121.7	11173.0	11153.0	11001.9	7297.5	7212.0	6427.7
57.5°	12108.4	12119.8	12114.1	12102.6	12148.3	8826.0	11395.4	6593.1	4026.6	4029.5
60°	13097.9	13040.9	13023.8	12998.1	11016.1	6256.6	4748.1	459.1	1574.1	1551.3
62.5°	13996.2	13976.2	13916.3	13902.1	9347.9	4927.8	4813.7	105.5	82.7	79.8
65°	15245.2	15068.4	15019.9	14868.8	9963.9	5247.1	5138.8	31.4	2.9	0.0
67.5°	15710.1	15350.7	15176.8	15096.9	10137.8	5412.5	5204.4	31.4	2.9	0.0
70°	14831.7	14386.9	14167.3	14078.9	9473.4	5058.9	4853.6	31.4	2.9	0.0
72.5°	13152.1	12824.1	12735.7	12453.4	8352.7	4440.1	4260.5	31.4	0.0	0.0
75°	10788.0	10668.2	10559.9	10260.4	6789.9	3527.6	3367.9	28.5	0.0	0.0
77.5°	7850.8	7673.9	7474.3	7149.2	4582.7	2304.2	2221.5	25.7	0.0	0.0
80°	3539.0	3393.5	3345.1	2837.4	1625.5	750.0	661.6	22.8	0.0	0.0
82.5°	687.3	618.8	587.5	564.6	365.0	202.5	176.8	17.1	0.0	0.0
85°	233.8	259.5	302.3	333.6	205.3	122.6	102.7	11.4	0.0	0.0
87.5°	91.3	122.6	148.3	154.0	77.0	51.3	28.5	5.7	0.0	0.0
90°	17.1	22.8	20.0	14.3	8.6	2.9	0.0	0.0	0.0	0.0
92.5°	8.6	11.4	8.6	8.6	5.7	2.9	0.0	0.0	0.0	0.0
95°	11.4	11.4	11.4	8.6	5.7	2.9	0.0	0.0	0.0	0.0
97.5°	11.4	11.4	11.4	8.6	5.7	2.9	0.0	0.0	0.0	0.0
100°	11.4	11.4	11.4	8.6	5.7	2.9	0.0	0.0	0.0	0.0
102.5°	11.4	11.4	11.4	8.6	5.7	2.9	0.0	0.0	0.0	0.0
105°	11.4	14.3	11.4	8.6	5.7	2.9	0.0	0.0	0.0	0.0
107.5°	11.4	14.3	11.4	8.6	5.7	2.9	0.0	0.0	0.0	0.0
110°	11.4	14.3	11.4	8.6	5.7	2.9	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)