

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: P579443

Luminaire Tested: **CTN-CA10-760-730-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579443
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-CA10-760-730-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64506 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - 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

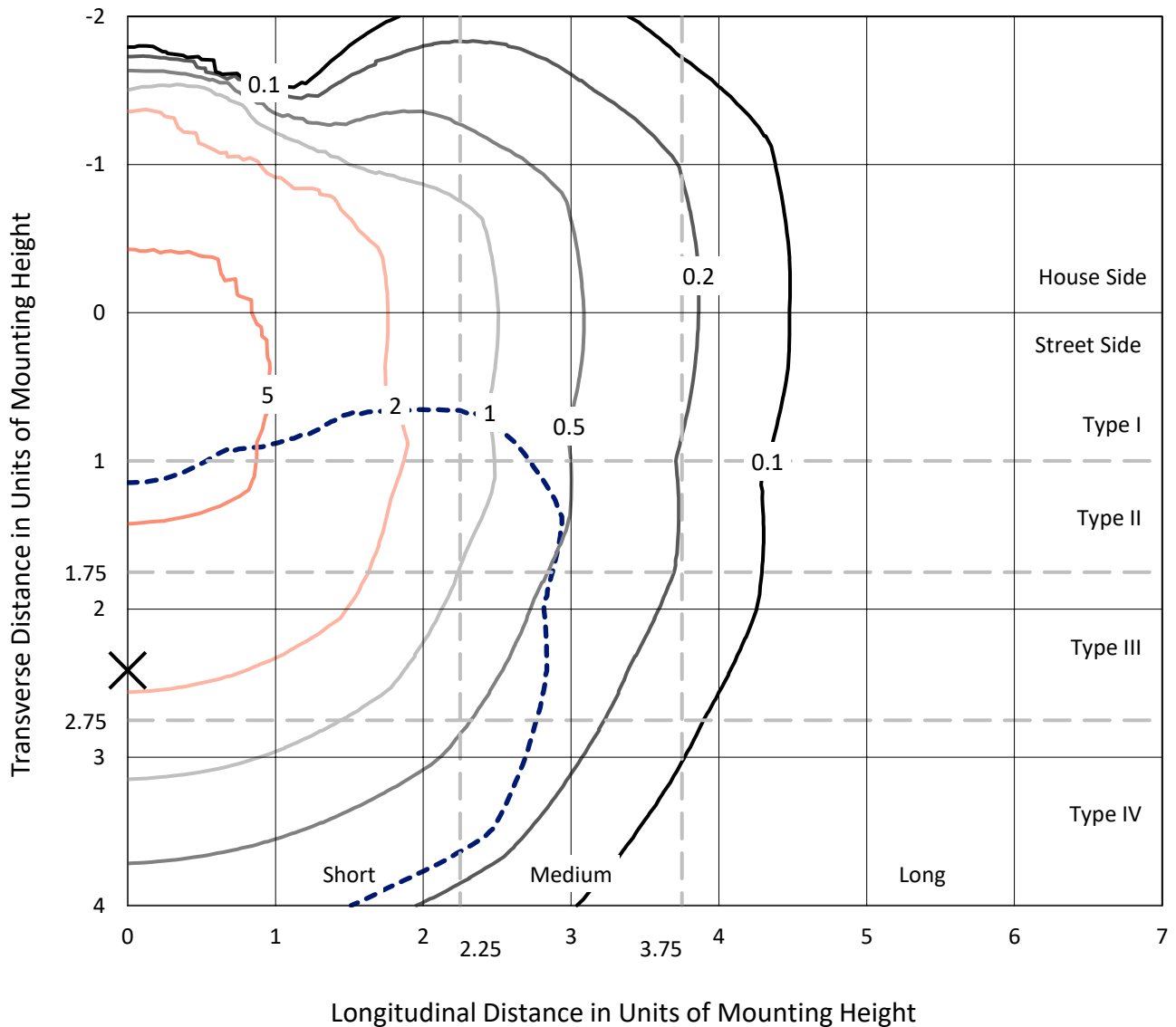




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Iso-Footcandle Lines of Horizontal Illumination

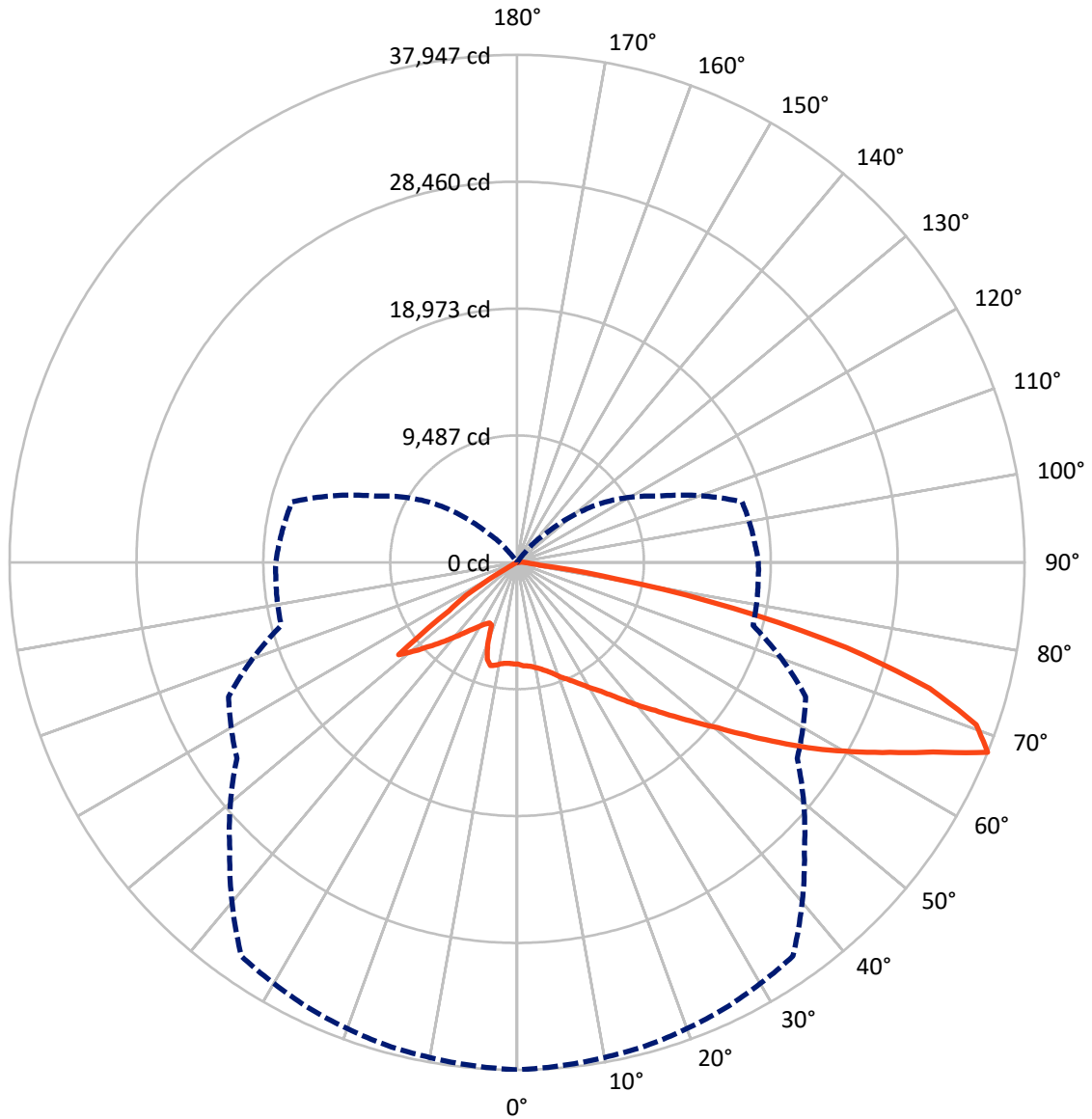
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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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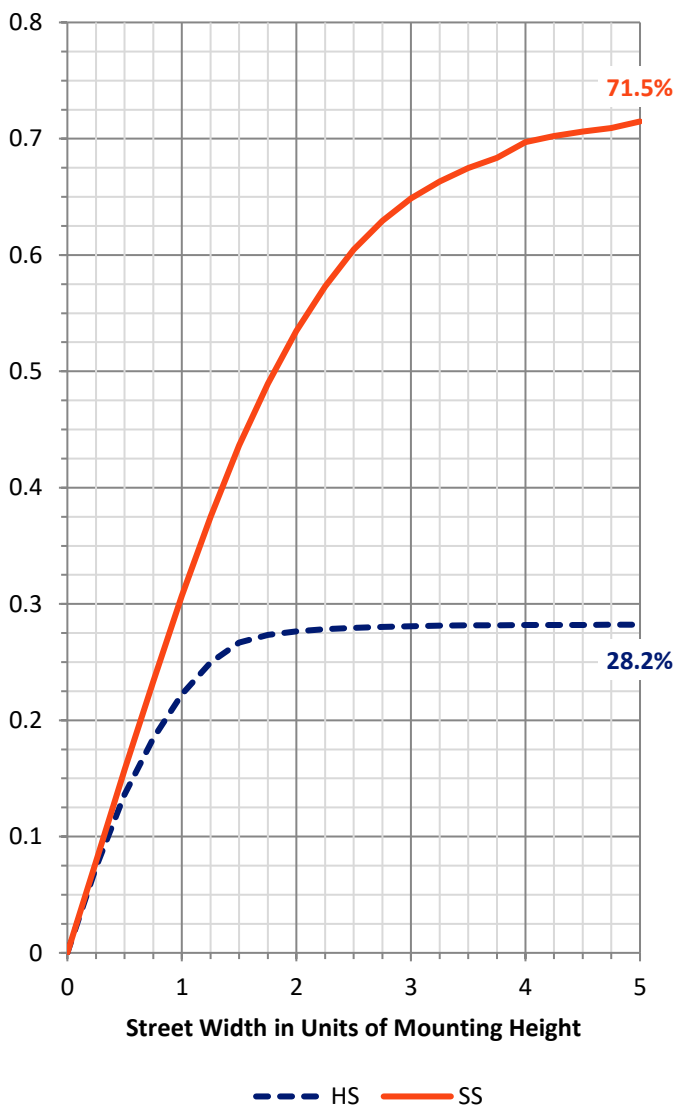
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18282.2	0.3	18282.5
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	46141.4	82.2	46223.5
	% Fixture	71.5	0.1	71.7
Total	Lumens	64423.6	82.4	64506.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.6	1.1
10°-20°	2255.4	3.5
20°-30°	3734.6	5.8
30°-40°	5878.9	9.1
40°-50°	9200.6	14.3
50°-60°	13284.2	20.6
60°-70°	16456.8	25.5
70°-80°	11985.1	18.6
80°-90°	895.3	1.4
90°-100°	70.3	0.1
100°-110°	11.8	0.0
110°-120°	0.4	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°	64423.6	99.9
0°-180°	64506.0	100.0

Coefficient of Utilization

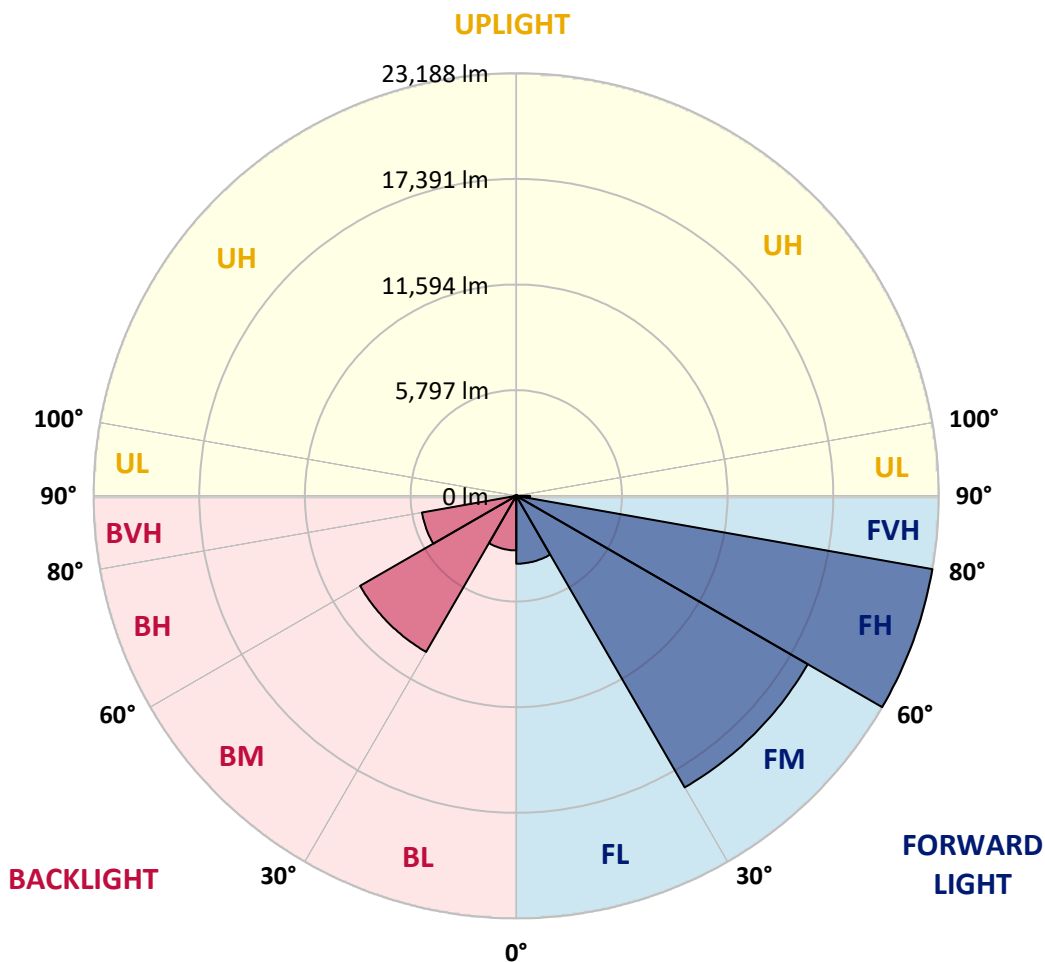


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3725.7	5.8			
FM	(30°-60°)	18472.7	28.6			
FH	(60°-80°)	23187.8	35.9			G5
FVH	(80°-90°)	755.2	1.2			G5
BL	(0°-30°)	2997.0	4.6	B4/5000		
BM	(30°-60°)	9891.0	15.3	B5		
BH	(60°-80°)	5254.1	8.1	B5		G5
BVH	(80°-90°)	140.1	0.2			G2/225
UL	(90°-100°)	70.3	0.1		U3/500	
UH	(100°-180°)	12.1	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°	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1
2.5°	7736.2	7694.1	7694.1	7739.4	7613.3	7652.1	7600.4	7645.6	7619.8	7632.7	7648.9
5°	7781.4	7732.9	7736.2	7791.1	7678.0	7710.3	7648.9	7671.5	7648.9	7658.6	7658.6
7.5°	7865.5	7823.4	7823.4	7855.8	7742.6	7752.3	7697.4	7697.4	7668.3	7690.9	7671.5
10°	8023.9	7978.6	7956.0	7972.2	7871.9	7859.0	7784.7	7784.7	7739.4	7775.0	7745.9
12.5°	8214.6	8150.0	8143.5	8146.7	8033.6	8010.9	7926.9	7930.1	7846.1	7894.6	7859.0
15°	8444.1	8363.3	8356.9	8369.8	8250.2	8208.2	8114.4	8114.4	8020.6	8046.5	7998.0
17.5°	8738.3	8644.6	8628.4	8651.0	8531.4	8492.6	8382.7	8363.3	8259.9	8240.5	8198.5
20°	9126.3	9019.6	8987.3	9035.8	8883.8	8848.3	8715.7	8673.7	8534.7	8305.1	8004.5
22.5°	9475.4	9391.4	9372.0	9404.3	9265.3	9229.7	9100.4	9013.1	8676.9	8214.6	7936.6
25°	9873.1	9840.7	9831.0	9811.6	9685.6	9624.1	9501.3	9378.4	8615.5	7981.9	7975.4
27.5°	10364.4	10348.3	10303.0	10286.9	10147.8	10109.1	9947.4	9155.4	8395.7	8350.4	8324.5
30°	10901.1	10868.8	10823.5	10826.7	10733.0	10661.9	10277.2	8958.2	8819.2	8819.2	8751.3
32.5°	11495.9	11460.4	11415.1	11424.8	11386.0	11324.6	10167.2	9478.7	9372.0	9401.1	9317.0
35°	12233.0	12174.8	12158.7	12197.5	12200.7	11803.1	10361.2	10186.6	10102.6	10083.2	9766.4
37.5°	13093.0	13044.5	13102.7	13193.2	13089.7	11925.9	11133.9	11078.9	10994.8	10526.1	9776.1
40°	14124.2	14036.9	14108.1	14166.3	14098.4	12656.5	11945.3	11964.7	11890.3	10500.2	9669.4
42.5°	15145.8	15061.7	15123.2	15268.6	15242.8	13561.7	12934.5	12976.6	12226.6	10561.6	10497.0
45°	16409.8	16380.7	16361.3	16481.0	16581.2	14644.7	14108.1	14104.8	11987.3	11538.0	11479.8
47.5°	17842.0	17803.2	17812.9	17964.8	18116.8	15937.8	15494.9	14195.3	12604.8	12650.1	12598.3
50°	19439.0	19397.0	19523.0	19742.9	19820.5	17389.4	16846.3	13949.7	13891.5	13940.0	13852.7
52.5°	21466.0	21372.2	21566.2	21802.2	21902.4	19106.0	16920.6	15401.2	15304.2	15313.9	15035.9
55°	23771.0	23696.6	23871.2	24136.3	24285.0	21023.1	18465.9	16813.9	16755.7	15107.0	13603.7
57.5°	26276.4	26192.4	26425.1	26502.7	26541.5	23004.8	20020.9	18346.3	15653.4	13794.5	13710.4
60°	28733.4	28642.9	28937.0	28950.0	29063.1	24983.3	21498.3	19823.7	15081.1	14835.4	14764.3
62.5°	31313.2	31200.0	31458.7	31449.0	31225.9	26793.7	22962.8	21242.9	16102.7	15908.7	15798.8
65°	34177.5	34093.4	34274.4	33983.5	33540.6	28665.5	24482.2	22788.2	17292.4	17256.8	17231.0
67.5°	37946.9	37782.1	37416.8	36796.1	35949.0	30382.1	25568.4	23806.5	18259.0	18094.1	18042.4
70°	36430.7	36236.8	35958.7	35276.6	34413.5	28768.9	23822.7	22267.7	17072.6	17079.0	16956.2
72.5°	32257.2	31920.9	31659.1	30702.2	30226.9	25125.5	20758.0	19325.8	14767.6	15042.3	14984.2
75°	25445.6	25102.9	24672.9	24297.9	24246.2	20379.7	16736.4	15705.1	11774.0	11974.4	12119.9
77.5°	16493.9	16367.8	16910.9	16555.3	16875.4	14033.7	11955.0	11069.2	8114.4	8622.0	8554.1
80°	7548.7	7403.2	8276.0	8030.3	8150.0	6892.4	5841.7	5612.2	3672.5	3698.4	3775.9
82.5°	1706.9	1648.7	1710.2	1571.2	1532.4	1296.4	1141.2	1034.5	649.8	688.6	724.2
85°	934.3	934.3	921.4	856.7	733.9	604.5	478.5	368.5	200.4	219.8	216.6
87.5°	656.3	640.1	636.9	569.0	488.2	413.8	329.7	236.0	113.1	77.6	71.1
90°	449.4	442.9	420.3	378.2	326.5	268.3	200.4	116.4	48.5	22.6	16.2
92.5°	326.5	320.0	303.9	268.3	223.1	181.0	132.5	77.6	38.8	16.2	3.2
95°	216.6	213.4	203.7	174.6	145.5	116.4	84.1	48.5	32.3	12.9	3.2
97.5°	148.7	145.5	135.8	116.4	93.8	74.4	51.7	35.6	25.9	9.7	3.2
100°	100.2	97.0	90.5	74.4	58.2	45.3	32.3	25.9	19.4	9.7	3.2
102.5°	64.7	61.4	55.0	45.3	32.3	25.9	22.6	19.4	12.9	6.5	3.2
105°	38.8	35.6	29.1	22.6	19.4	16.2	16.2	12.9	9.7	3.2	3.2
107.5°	19.4	16.2	12.9	12.9	12.9	9.7	9.7	9.7	6.5	3.2	0.0
110°	3.2	3.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5	3.2	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°	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1	7597.1
2.5°	7632.7	7581.0	7610.1	7564.8	7555.1	7506.6	7584.2	7593.9	7587.4	7600.4
5°	7642.4	7587.4	7619.8	7564.8	7564.8	7513.1	7587.4	7587.4	7568.1	7574.5
7.5°	7668.3	7613.3	7635.9	7574.5	7577.7	7516.3	7606.8	7597.1	7581.0	7603.6
10°	7742.6	7681.2	7678.0	7619.8	7632.7	7568.1	7681.2	7681.2	7665.0	7707.1
12.5°	7862.2	7771.7	7755.6	7684.4	7710.3	7655.3	7794.3	7800.8	7804.0	7871.9
15°	7988.3	7878.4	7894.6	7810.5	7800.8	7771.7	7897.8	7891.3	7888.1	7981.9
17.5°	8166.1	7648.9	7564.8	7506.6	7493.7	7422.6	7539.0	7762.0	7645.6	7581.0
20°	7884.9	7613.3	7280.3	7167.2	7144.6	6527.1	6038.9	6258.8	6556.2	6582.0
22.5°	7629.5	7532.5	7506.6	7328.8	6342.8	6135.9	6155.3	6074.5	5369.7	5062.6
25°	7946.3	7862.2	7752.3	6666.1	6433.3	6359.0	6336.3	5508.7	4952.7	4988.3
27.5°	8298.7	8204.9	7248.0	6682.3	6734.0	6630.5	6119.7	5140.2	5107.9	5169.3
30°	8738.3	7988.3	7073.4	7041.1	7089.6	6957.0	5437.6	5366.5	5356.8	5421.5
32.5°	9239.4	7703.8	7539.0	7539.0	7516.3	6084.2	5728.6	5680.1	5705.9	5773.8
35°	9051.9	8150.0	8130.6	8211.4	7668.3	6242.6	6194.1	6110.0	6129.4	6152.1
37.5°	8845.0	8883.8	8893.5	8851.5	5592.8	6695.2	6656.4	6640.2	6620.8	6627.3
40°	9614.4	9640.3	9630.6	9245.9	6035.7	6782.5	7180.1	7151.0	7147.8	7186.6
42.5°	10513.2	10584.3	10529.3	8156.4	6627.3	5702.7	7784.7	7768.5	7762.0	7842.8
45°	11525.0	11592.9	10438.8	8735.1	7257.7	5903.1	7826.7	8428.0	8476.5	8547.6
47.5°	12621.0	12608.0	9633.8	9624.1	7998.0	6459.2	6507.7	9216.8	9297.6	9323.5
50°	13881.8	11809.5	10548.7	10193.1	8835.3	7083.1	6898.9	8457.1	10241.6	10267.5
52.5°	13613.4	11683.4	11599.4	8942.0	9585.3	7771.7	7590.7	7542.2	10616.6	11240.5
55°	12688.9	12785.8	12666.2	9811.6	7028.2	8386.0	8272.8	8224.3	7897.8	6252.3
57.5°	13716.9	13746.0	13642.5	10610.1	7147.8	5227.5	8143.5	6986.1	4538.9	4516.3
60°	14783.7	14832.2	10160.8	7794.3	4580.9	1749.0	417.0	439.7	1254.3	1102.4
62.5°	15802.1	15850.6	10755.6	7121.9	2893.4	129.3	84.1	58.2	64.7	64.7
65°	17130.8	17150.2	11512.1	7539.0	3006.5	32.3	9.7	0.0	0.0	0.0
67.5°	17819.3	17421.7	11702.8	7729.7	3087.4	19.4	6.5	0.0	0.0	0.0
70°	16778.4	16351.6	10894.6	7244.8	2877.2	16.2	3.2	0.0	0.0	0.0
72.5°	14783.7	14576.8	9779.3	6423.6	2547.5	9.7	3.2	0.0	0.0	0.0
75°	12252.4	11977.6	8107.9	5353.6	2107.8	6.5	0.0	0.0	0.0	0.0
77.5°	8715.7	8748.0	5651.0	3902.0	1435.4	6.5	0.0	0.0	0.0	0.0
80°	3814.7	3902.0	2476.3	1791.0	507.6	3.2	0.0	0.0	0.0	0.0
82.5°	727.4	669.2	323.3	255.4	64.7	0.0	0.0	0.0	0.0	0.0
85°	239.2	261.9	119.6	97.0	29.1	0.0	0.0	0.0	0.0	0.0
87.5°	84.1	106.7	35.6	29.1	6.5	0.0	0.0	0.0	0.0	0.0
90°	12.9	12.9	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)