

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: P579444

Luminaire Tested: **CTN-CA10-760-730-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)
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-EX90
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: 84446 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

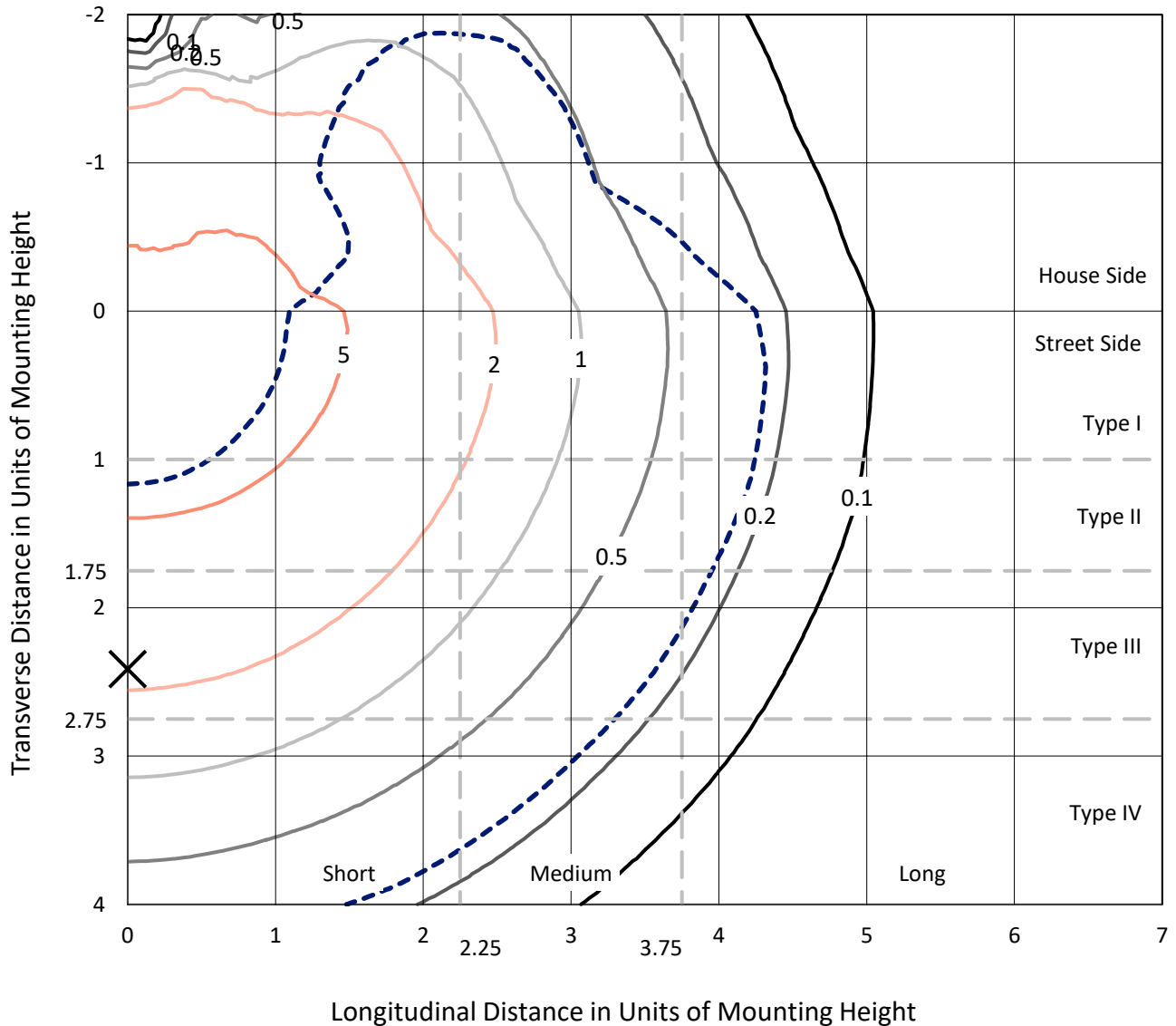
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

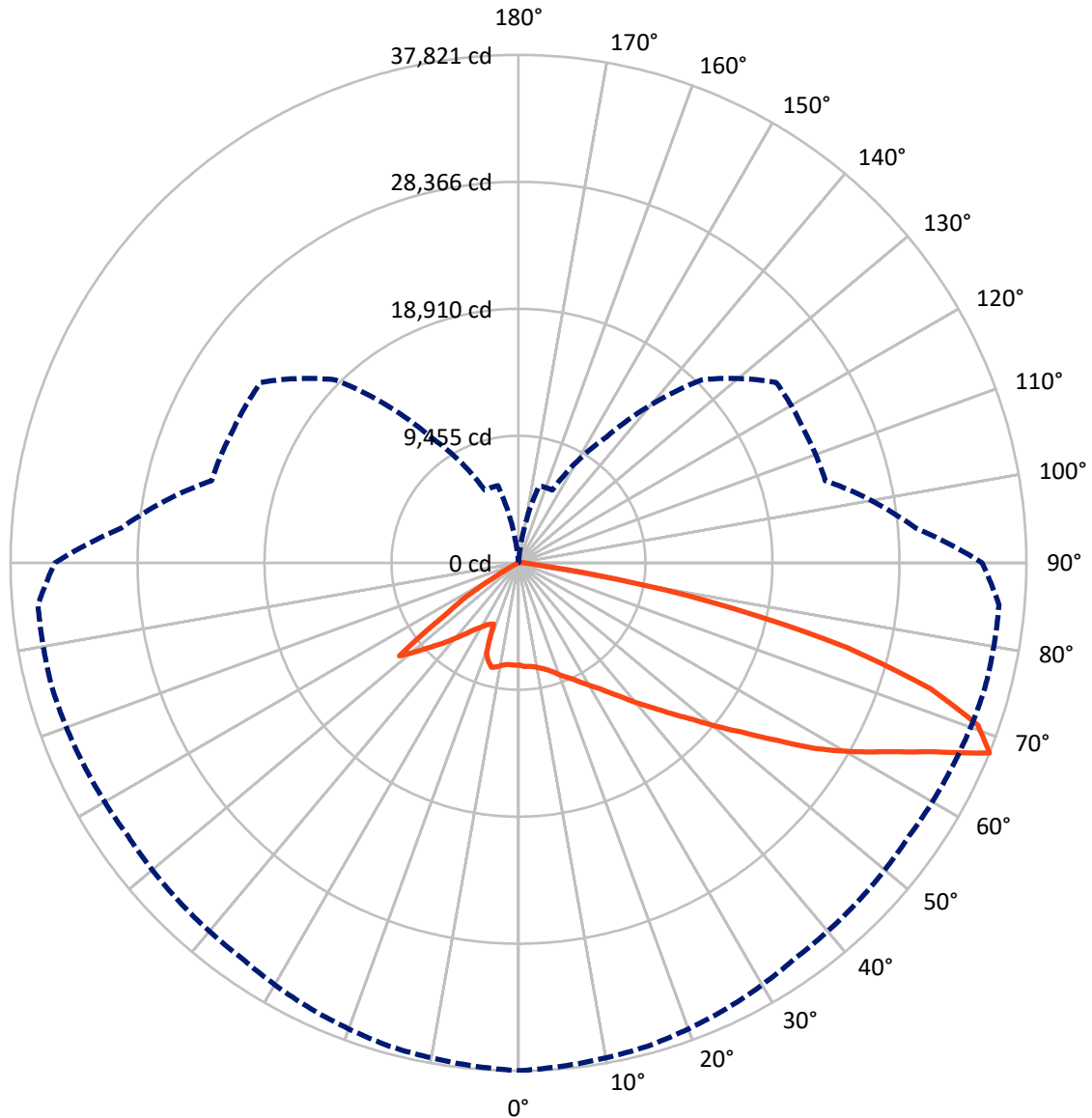
× Max cd
 - - - 1/2 Max cd



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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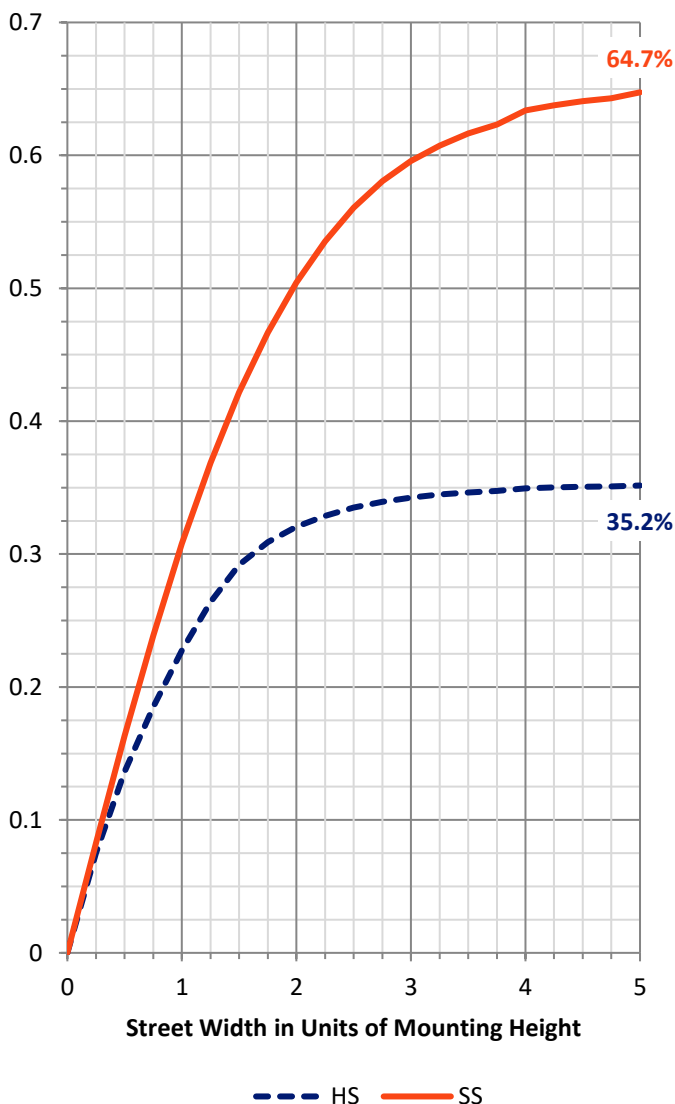
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29724.9	1.7	29726.6
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	54659.8	59.6	54719.4
	% Fixture	64.7	0.1	64.8
Total	Lumens	84384.7	61.3	84446.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.1	0.9
10°-20°	2274.3	2.7
20°-30°	3943.2	4.7
30°-40°	6470.1	7.7
40°-50°	10792.2	12.8
50°-60°	17465.8	20.7
60°-70°	24108.4	28.5
70°-80°	17393.2	20.6
80°-90°	1205.6	1.4
90°-100°	52.3	0.1
100°-110°	8.7	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°	84384.7	99.9
0°-180°	84446.0	100.0

Coefficient of Utilization

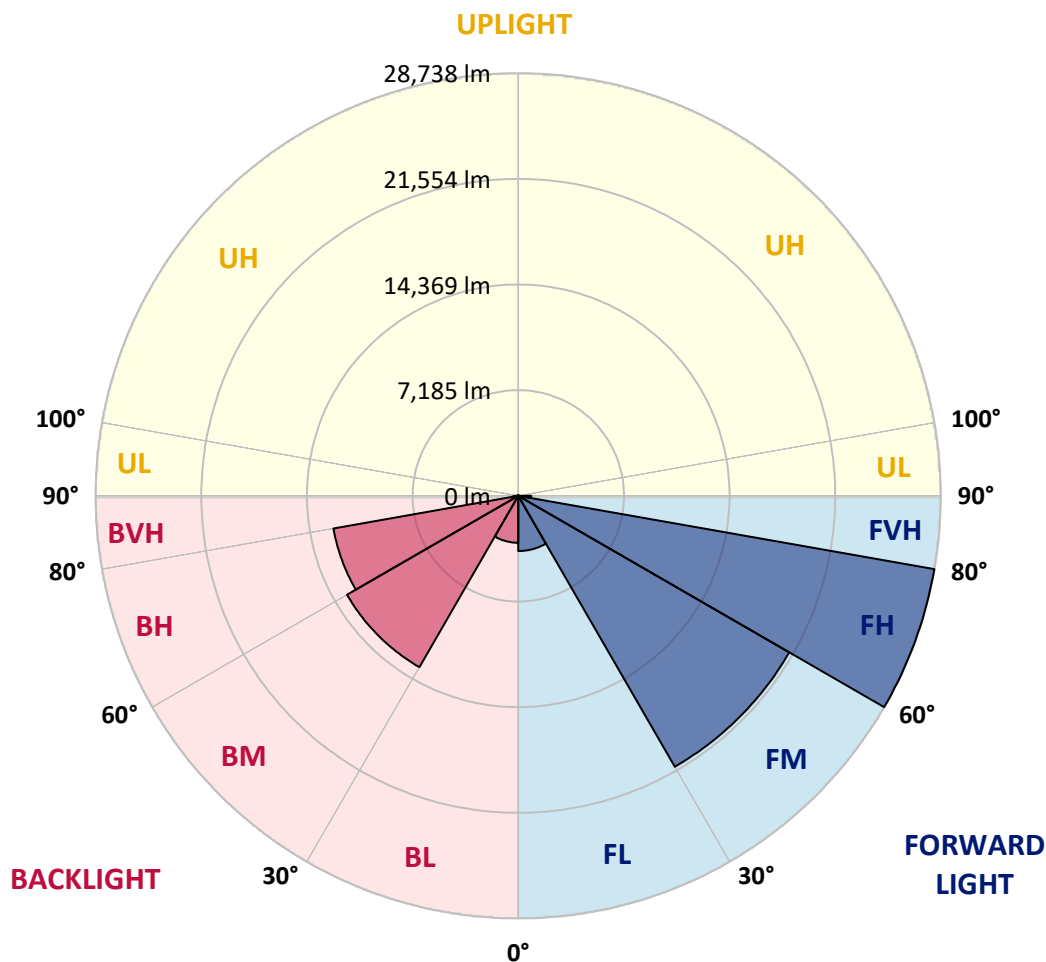


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3755.2	4.4			
FM (30°-60°)	21278.2	25.2			
FH (60°-80°)	28738.1	34.0			G5
FVH (80°-90°)	888.3	1.1			G5
BL (0°-30°)	3194.3	3.8	B4/5000		
BM (30°-60°)	13449.8	15.9	B5		
BH (60°-80°)	12763.5	15.1	B5		G5
BVH (80°-90°)	317.3	0.4			G3/500
UL (90°-100°)	52.3	0.1		U3/500	
UH (100°-180°)	9.1	0.0		U1/10	

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°	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1
2.5°	7726.4	7681.2	7684.4	7729.7	7606.8	7652.1	7600.4	7645.6	7623.0	7639.2	7658.6
5°	7749.1	7694.1	7700.6	7755.5	7658.6	7694.1	7632.7	7658.6	7639.2	7658.6	7661.8
7.5°	7807.3	7752.3	7755.5	7797.6	7697.3	7723.2	7665.0	7678.0	7645.6	7681.2	7671.5
10°	7930.1	7878.4	7859.0	7894.5	7807.3	7810.5	7742.6	7755.5	7707.0	7755.5	7736.1
12.5°	8095.0	8023.9	8030.3	8049.7	7943.0	7949.5	7868.7	7888.1	7807.3	7875.2	7852.5
15°	8295.4	8208.1	8217.8	8250.2	8146.7	8137.0	8062.7	8062.7	7991.5	8043.3	8020.6
17.5°	8573.4	8476.5	8470.0	8492.6	8408.6	8408.6	8324.5	8314.8	8243.7	8285.7	8279.3
20°	8935.5	8825.6	8806.2	8848.2	8741.5	8754.5	8647.8	8638.1	8560.5	8586.4	8589.6
22.5°	9262.0	9174.7	9171.5	9236.2	9110.1	9126.3	9029.3	9003.4	8938.8	8974.3	8984.0
25°	9637.0	9624.1	9614.4	9637.0	9511.0	9511.0	9443.1	9420.4	9378.4	9404.3	9430.1
27.5°	10109.0	10102.6	10076.7	10079.9	9973.3	9989.4	9915.1	9902.1	9882.7	9879.5	9866.6
30°	10629.5	10600.4	10564.9	10587.5	10539.0	10555.2	10490.5	10448.5	10442.0	10445.2	10425.8
32.5°	11208.2	11169.4	11146.8	11185.6	11205.0	11250.2	11247.0	11130.6	11130.6	11179.1	11091.8
35°	11925.9	11864.5	11883.9	11935.6	11974.4	12090.8	12071.4	11990.5	12016.4	12039.0	11935.6
37.5°	12769.6	12727.6	12814.9	12911.9	12915.1	13080.0	13041.2	13060.6	13057.4	13028.3	12960.4
40°	13781.5	13713.6	13804.1	13878.5	13833.2	14030.4	14024.0	14111.3	14169.5	14269.7	14230.9
42.5°	14786.9	14735.2	14822.5	14984.1	14958.3	15184.6	15216.9	15352.7	15433.5	15588.7	15498.1
45°	16025.1	15996.0	16076.8	16202.9	16290.2	16590.8	16710.5	16768.6	16972.3	17159.8	16949.7
47.5°	17412.0	17450.8	17437.8	17667.4	17861.3	18226.6	18275.1	18462.6	18640.4	18847.3	18643.7
50°	19138.3	19073.6	19131.8	19351.7	19668.5	19933.6	20182.5	20450.8	20625.4	20838.8	20463.8
52.5°	20997.2	21052.1	21181.4	21520.9	21753.7	22067.2	22293.5	22613.6	22784.9	22969.2	22481.0
55°	23341.0	23386.2	23528.5	23877.6	24042.5	24398.1	24553.3	24873.3	25038.2	25119.0	24495.1
57.5°	26088.9	25936.9	26053.3	26234.3	26489.7	26874.4	26916.5	27217.1	27217.1	27320.6	26525.3
60°	28542.6	28439.1	28562.0	28820.6	28920.8	29270.0	29234.4	29480.1	29544.8	29467.2	28516.7
62.5°	30960.7	30980.1	31138.5	31222.6	31183.8	31390.7	31474.7	31733.4	31626.7	31652.6	30556.6
65°	33896.1	33941.4	33925.2	33770.1	33420.9	33828.2	33805.6	34216.2	34242.0	34474.8	33201.1
67.5°	37820.8	37620.3	37255.0	36631.1	35939.3	35700.0	35489.9	35693.6	35955.4	35913.4	34516.8
70°	36294.9	35968.4	35777.6	35234.5	34309.9	33831.5	33395.0	33430.6	33812.1	33847.6	32418.7
72.5°	32085.8	31920.9	31187.0	30711.8	30078.2	29709.6	29182.7	29302.3	29800.1	29884.2	28746.2
75°	25309.8	25157.8	24495.1	24339.9	24026.3	24207.4	24078.1	24126.5	24527.4	24158.9	23476.7
77.5°	16380.7	16416.3	16312.8	16665.2	16652.3	16662.0	17134.0	17182.4	17573.6	17347.3	16687.8
80°	7345.0	7451.7	7703.8	8214.6	7904.2	8072.4	8253.4	8198.4	8592.8	7700.6	8020.6
82.5°	1487.1	1538.8	1451.5	1516.2	1416.0	1467.7	1542.1	1428.9	1416.0	1312.5	1218.8
85°	766.2	775.9	772.6	756.5	666.0	614.2	591.6	497.9	449.4	439.7	407.3
87.5°	497.9	504.3	488.2	484.9	426.7	391.2	349.1	294.2	245.7	171.3	142.2
90°	303.9	303.9	287.7	271.6	242.5	216.6	174.6	126.1	74.4	29.1	16.2
92.5°	203.7	203.7	197.2	187.5	168.1	145.5	113.1	74.4	35.6	12.9	6.5
95°	129.3	129.3	126.1	122.8	109.9	93.8	71.1	45.3	22.6	9.7	3.2
97.5°	84.1	84.1	84.1	80.8	74.4	64.7	48.5	29.1	16.2	6.5	3.2
100°	51.7	55.0	51.7	51.7	48.5	42.0	32.3	19.4	12.9	6.5	3.2
102.5°	29.1	29.1	32.3	32.3	29.1	25.9	19.4	16.2	9.7	6.5	3.2
105°	12.9	12.9	16.2	16.2	16.2	12.9	12.9	9.7	6.5	6.5	3.2
107.5°	3.2	3.2	3.2	6.5	9.7	9.7	9.7	9.7	6.5	3.2	3.2
110°	0.0	0.0	0.0	3.2	3.2	6.5	6.5	6.5	6.5	3.2	3.2



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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°	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1	7610.1
2.5°	7639.2	7600.4	7629.5	7581.0	7568.0	7526.0	7606.8	7619.8	7613.3	7626.2
5°	7645.6	7597.1	7632.7	7584.2	7581.0	7535.7	7619.8	7623.0	7600.4	7610.1
7.5°	7665.0	7619.8	7645.6	7590.7	7597.1	7542.2	7639.2	7635.9	7623.0	7645.6
10°	7736.1	7684.4	7694.1	7635.9	7652.1	7593.9	7713.5	7720.0	7707.0	7749.1
12.5°	7859.0	7787.9	7810.5	7742.6	7755.5	7697.3	7842.8	7852.5	7852.5	7920.4
15°	8027.1	7952.7	8001.2	7913.9	7917.2	7829.9	7939.8	7939.8	7952.7	8046.5
17.5°	8272.8	8182.3	8246.9	8166.1	7661.8	7471.1	7846.1	8075.6	7694.1	7661.8
20°	8576.7	8534.6	8570.2	8437.7	7619.8	6746.9	6068.0	6032.4	6785.7	7160.7
22.5°	8948.4	8906.4	8922.6	8754.5	6801.9	6187.6	6177.9	6113.3	5172.5	4913.9
25°	9384.9	9362.3	9326.7	7917.2	7031.4	6443.0	6365.4	5521.7	4981.8	5030.3
27.5°	9853.6	9785.8	8586.4	8224.3	7383.8	6698.4	6258.7	5156.4	5137.0	5182.2
30°	10377.4	10018.5	8790.0	8667.2	7794.3	7015.2	5447.3	5382.6	5382.6	5453.8
32.5°	11043.3	9355.8	9355.8	9291.1	8301.9	6158.5	5735.0	5696.2	5741.5	5770.6
35°	10943.1	10063.8	10167.2	10138.1	8990.5	6271.7	6197.3	6132.7	6142.4	6142.4
37.5°	10975.4	11011.0	11133.8	11007.8	7842.8	6763.1	6643.4	6630.5	6640.2	6662.8
40°	11990.5	12009.9	12055.2	11777.2	8428.0	7335.3	7170.4	7138.1	7170.4	7218.9
42.5°	13083.2	13138.2	13189.9	10710.3	9245.9	7985.1	7820.2	7758.8	7817.0	7868.7
45°	14376.4	14460.4	13668.4	11657.6	10170.5	8725.4	8550.8	8476.5	8512.0	8557.3
47.5°	15831.1	15963.7	12889.3	12863.4	11256.7	9601.5	9401.0	9258.8	9313.8	9310.5
50°	17473.4	15255.7	14240.6	14224.4	12469.0	10577.8	10370.9	10241.6	10283.6	10251.3
52.5°	19248.2	15672.7	15705.0	15701.8	13736.3	11628.5	11437.7	11276.1	10943.1	11250.2
55°	21065.1	17114.6	17237.4	17218.0	15064.9	12714.7	12511.0	12359.1	8075.6	6821.3
57.5°	22872.2	18621.1	18659.8	18705.1	16442.1	13762.1	12866.6	11819.2	4606.8	4584.1
60°	24656.7	20056.4	20134.0	20159.9	17185.7	11392.5	5259.8	5356.8	1393.3	1664.9
62.5°	26505.9	21472.4	21543.5	21520.9	17926.0	10594.0	5524.9	5415.0	129.3	119.6
65°	28865.9	23247.2	23147.0	23072.6	19093.0	11305.2	5935.5	5906.4	42.0	29.1
67.5°	29693.5	23651.3	23447.7	23421.8	19261.1	11457.1	5967.8	5945.2	42.0	29.1
70°	27818.4	22115.7	21766.6	21776.3	17922.8	10716.8	5566.9	5534.6	38.8	29.1
72.5°	24362.5	19532.7	19387.2	18617.8	15520.8	9426.9	4936.5	4813.7	38.8	25.9
75°	20001.5	15779.4	15456.1	14593.0	12352.6	7493.7	3876.2	3717.7	35.6	22.6
77.5°	13885.0	11065.9	10448.5	9569.2	8263.1	4968.8	2605.7	2402.0	32.3	22.6
80°	6294.3	4542.1	4564.7	3497.9	2802.9	1684.3	827.6	750.0	29.1	19.4
82.5°	1095.9	808.2	759.7	733.9	611.0	413.8	252.2	216.6	25.9	12.9
85°	381.5	307.1	339.4	400.9	355.6	248.9	155.2	148.7	16.2	6.5
87.5°	129.3	135.8	158.4	190.7	168.1	97.0	58.2	42.0	3.2	0.0
90°	12.9	16.2	16.2	16.2	9.7	0.0	0.0	0.0	0.0	0.0
92.5°	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	3.2	3.2	3.2	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)