

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: P579491

Luminaire Tested: **CTN-CA10-760-740-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579491
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-CA10-760-740-U-T5-HSS-HM-EX180
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: 65696 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

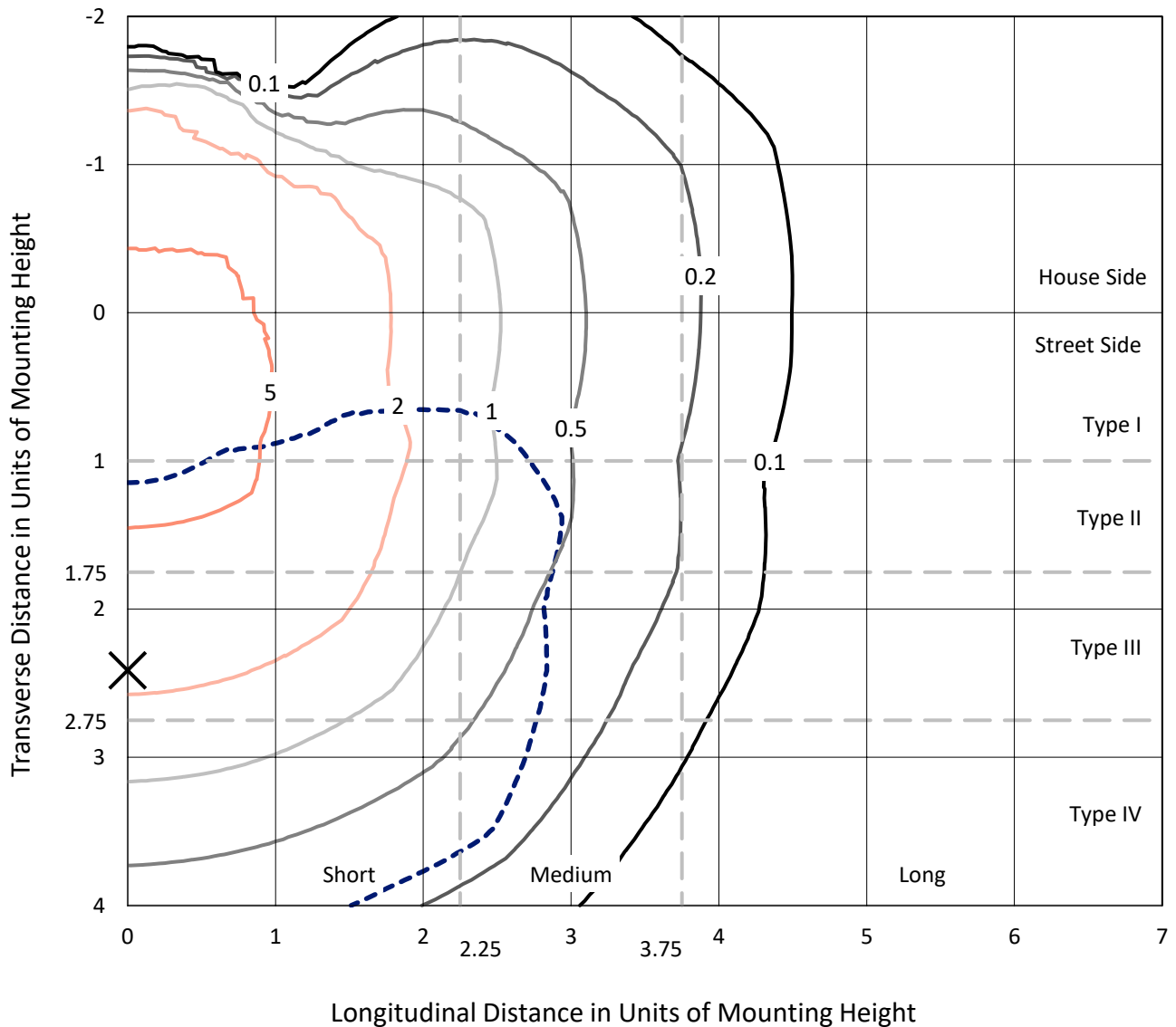
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

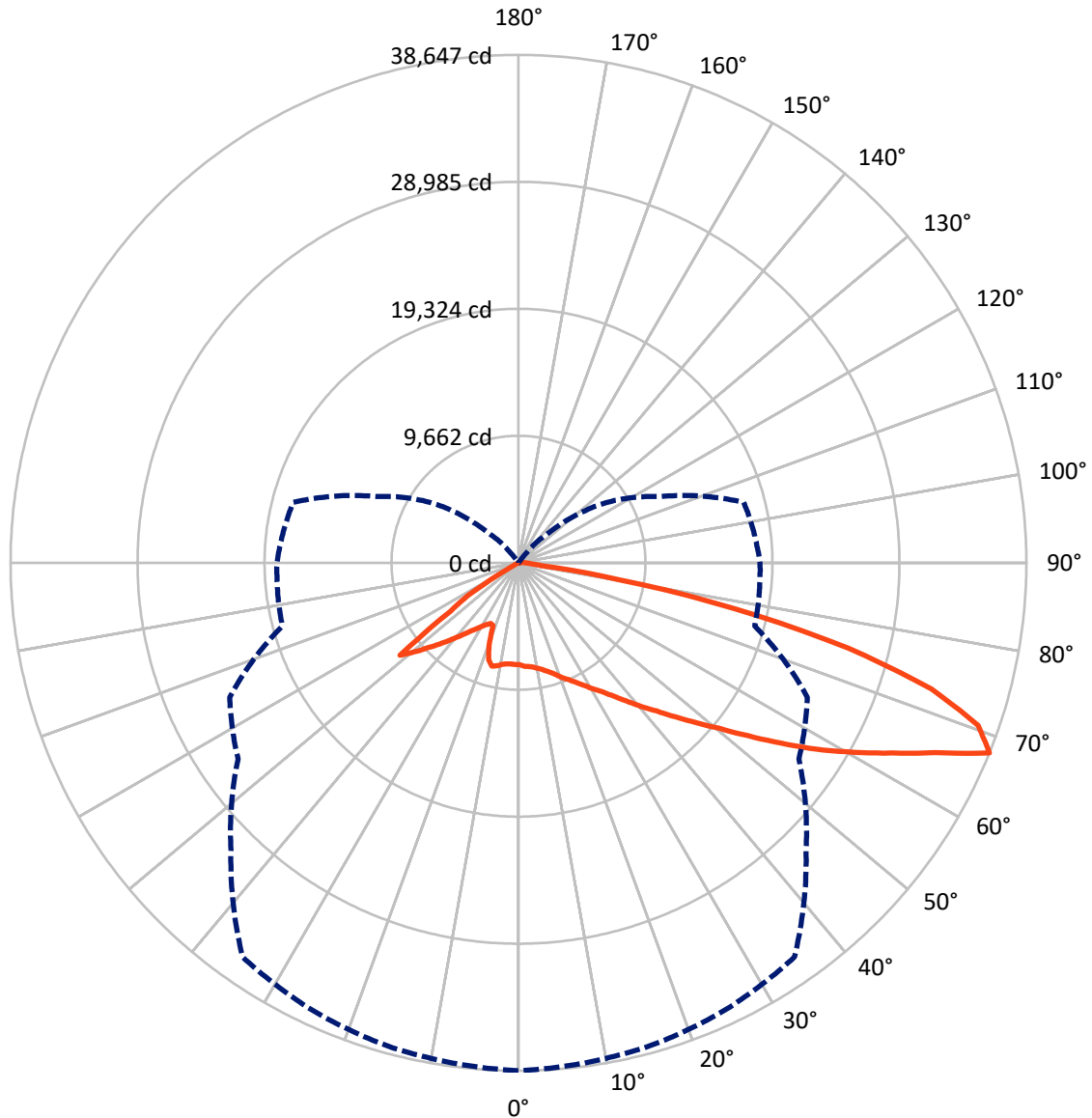
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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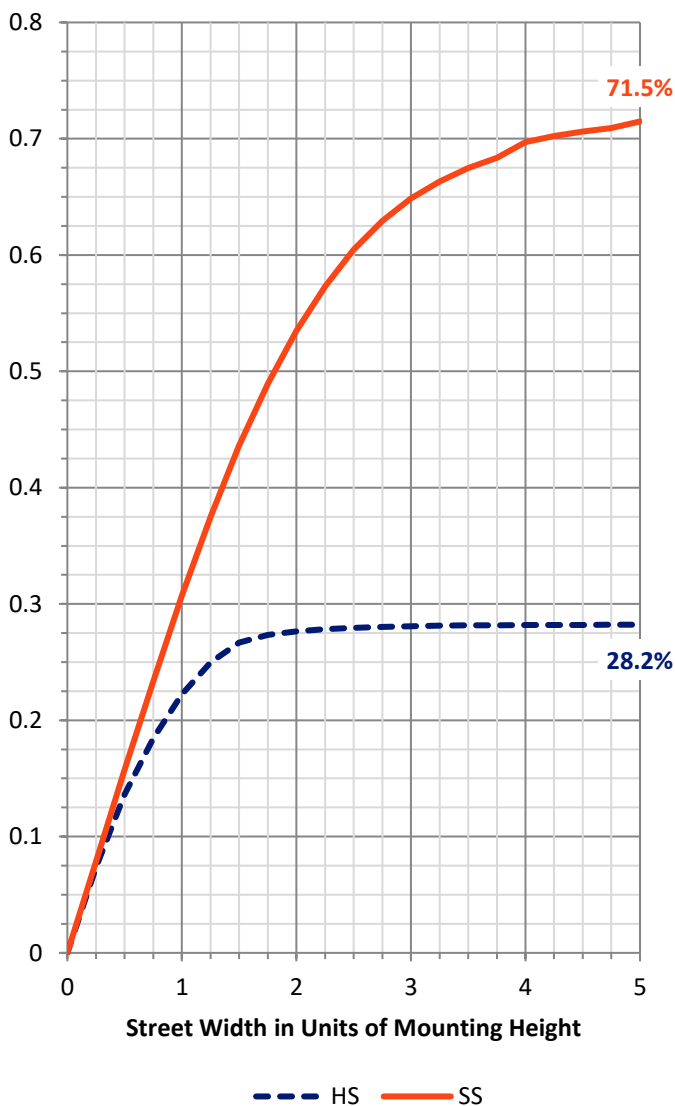
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18619.5	0.3	18619.7
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	46992.6	83.7	47076.3
	% Fixture	71.5	0.1	71.7
Total	Lumens	65612.1	83.9	65696.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.2	1.1
10°-20°	2297.1	3.5
20°-30°	3803.5	5.8
30°-40°	5987.4	9.1
40°-50°	9370.3	14.3
50°-60°	13529.2	20.6
60°-70°	16760.3	25.5
70°-80°	12206.2	18.6
80°-90°	911.8	1.4
90°-100°	71.6	0.1
100°-110°	12.0	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°	65612.1	99.9
0°-180°	65696.0	100.0

Coefficient of Utilization

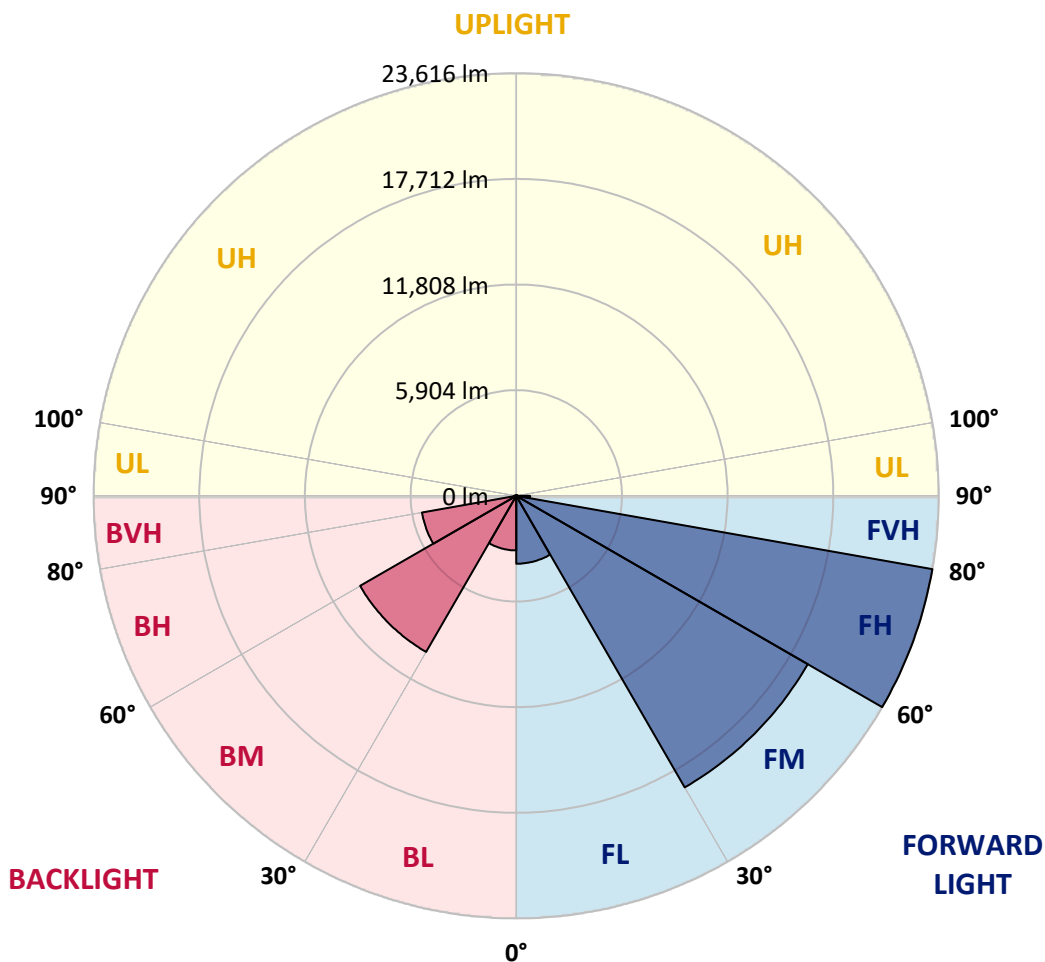


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3794.5	5.8			
FM (30°-60°)	18813.5	28.6			
FH (60°-80°)	23615.6	35.9			G5
FVH (80°-90°)	769.1	1.2			G5
BL (0°-30°)	3052.3	4.6	B4/5000		
BM (30°-60°)	10073.5	15.3	B5		
BH (60°-80°)	5351.0	8.1	B5		G5
BVH (80°-90°)	142.7	0.2			G2/225
UL (90°-100°)	71.6	0.1		U3/500	
UH (100°-180°)	12.3	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°	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3
2.5°	7878.9	7836.1	7836.1	7882.2	7753.8	7793.3	7740.6	7786.7	7760.3	7773.5	7790.0
5°	7925.0	7875.6	7878.9	7934.8	7819.6	7852.5	7790.0	7813.0	7790.0	7799.9	7799.9
7.5°	8010.6	7967.8	7967.8	8000.7	7885.5	7895.3	7839.4	7839.4	7809.7	7832.8	7813.0
10°	8171.9	8125.8	8102.8	8119.2	8017.2	8004.0	7928.3	7928.3	7882.2	7918.4	7888.8
12.5°	8366.2	8300.3	8293.7	8297.0	8181.8	8158.7	8073.1	8076.4	7990.8	8040.2	8004.0
15°	8599.9	8517.6	8511.0	8524.2	8402.4	8359.6	8264.1	8264.1	8168.6	8195.0	8145.6
17.5°	8899.5	8804.1	8787.6	8810.6	8688.8	8649.3	8537.4	8517.6	8412.3	8392.5	8349.7
20°	9294.6	9186.0	9153.1	9202.4	9047.7	9011.5	8876.5	8833.7	8692.1	8458.3	8152.1
22.5°	9650.2	9564.6	9544.9	9577.8	9436.2	9400.0	9268.3	9179.4	8837.0	8366.2	8083.0
25°	10055.2	10022.3	10012.4	9992.6	9864.2	9801.7	9676.6	9551.4	8774.4	8129.1	8122.5
27.5°	10555.6	10539.2	10493.1	10476.6	10335.1	10295.5	10130.9	9324.3	8550.5	8504.4	8478.1
30°	11102.2	11069.3	11023.2	11026.5	10931.0	10858.6	10466.8	9123.4	8981.9	8981.9	8912.7
32.5°	11708.0	11671.8	11625.7	11635.6	11596.1	11533.5	10354.8	9653.5	9544.9	9574.5	9488.9
35°	12458.7	12399.4	12383.0	12422.5	12425.8	12020.8	10552.4	10374.6	10289.0	10269.2	9946.5
37.5°	13334.5	13285.1	13344.4	13436.6	13331.2	12145.9	11339.3	11283.3	11197.7	10720.3	9956.4
40°	14384.8	14295.9	14368.3	14427.6	14358.4	12890.0	12165.7	12185.4	12109.7	10693.9	9847.8
42.5°	15425.2	15339.6	15402.2	15550.3	15524.0	13811.9	13173.2	13216.0	12452.1	10756.5	10690.6
45°	16712.6	16682.9	16663.2	16785.0	16887.1	14914.9	14368.3	14365.0	12208.5	11750.8	11691.6
47.5°	18171.1	18131.6	18141.5	18296.2	18451.0	16231.9	15780.8	14457.2	12837.3	12883.4	12830.7
50°	19797.6	19754.8	19883.2	20107.1	20186.1	17710.2	17157.0	14207.0	14147.7	14197.1	14108.2
52.5°	21862.0	21766.5	21964.0	22204.4	22306.5	19458.5	17232.8	15685.3	15586.5	15596.4	15313.3
55°	24209.5	24133.8	24311.6	24581.6	24733.0	21410.9	18806.6	17124.1	17064.9	15385.7	13854.7
57.5°	26761.2	26675.6	26912.6	26991.6	27031.2	23429.2	20390.2	18684.8	15942.1	14049.0	13963.4
60°	29263.4	29171.3	29470.9	29484.0	29599.3	25444.2	21894.9	20189.4	15359.4	15109.1	15036.7
62.5°	31890.8	31775.6	32039.0	32029.1	31801.9	27288.0	23386.4	21634.8	16399.8	16202.2	16090.3
65°	34808.0	34722.4	34906.7	34610.4	34159.3	29194.3	24933.9	23208.6	17611.4	17575.2	17548.8
67.5°	38647.0	38479.1	38107.0	37474.9	36612.2	30942.6	26040.1	24245.7	18595.9	18427.9	18375.3
70°	37102.8	36905.3	36622.1	35927.4	35048.3	29299.7	24262.2	22678.5	17387.5	17394.1	17269.0
72.5°	32852.2	32509.8	32243.1	31268.6	30784.6	25589.1	21140.9	19682.4	15040.0	15319.8	15260.6
75°	25915.0	25566.0	25128.1	24746.2	24693.5	20755.7	17045.1	15994.8	11991.2	12195.3	12343.5
77.5°	16798.2	16669.8	17222.9	16860.7	17186.7	14292.6	12175.5	11273.4	8264.1	8781.0	8711.9
80°	7687.9	7539.7	8428.7	8178.5	8300.3	7019.5	5949.5	5715.7	3740.2	3766.6	3845.6
82.5°	1738.4	1679.2	1741.7	1600.1	1560.6	1320.3	1162.2	1053.6	661.8	701.3	737.5
85°	951.5	951.5	938.4	872.5	747.4	615.7	487.3	375.3	204.1	223.9	220.6
87.5°	668.4	651.9	648.6	579.5	497.2	421.4	335.8	240.4	115.2	79.0	72.4
90°	457.7	451.1	428.0	385.2	332.5	273.3	204.1	118.5	49.4	23.0	16.5
92.5°	332.5	326.0	309.5	273.3	227.2	184.4	135.0	79.0	39.5	16.5	3.3
95°	220.6	217.3	207.4	177.8	148.2	118.5	85.6	49.4	32.9	13.2	3.3
97.5°	151.5	148.2	138.3	118.5	95.5	75.7	52.7	36.2	26.3	9.9	3.3
100°	102.1	98.8	92.2	75.7	59.3	46.1	32.9	26.3	19.8	9.9	3.3
102.5°	65.8	62.6	56.0	46.1	32.9	26.3	23.0	19.8	13.2	6.6	3.3
105°	39.5	36.2	29.6	23.0	19.8	16.5	16.5	13.2	9.9	3.3	3.3
107.5°	19.8	16.5	13.2	13.2	13.2	9.9	9.9	9.9	6.6	3.3	0.0
110°	3.3	3.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6	3.3	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°	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3	7737.3
2.5°	7773.5	7720.8	7750.5	7704.4	7694.5	7645.1	7724.1	7734.0	7727.4	7740.6
5°	7783.4	7727.4	7760.3	7704.4	7704.4	7651.7	7727.4	7727.4	7707.7	7714.3
7.5°	7809.7	7753.8	7776.8	7714.3	7717.5	7655.0	7747.2	7737.3	7720.8	7743.9
10°	7885.5	7822.9	7819.6	7760.3	7773.5	7707.7	7822.9	7822.9	7806.4	7849.2
12.5°	8007.3	7915.1	7898.6	7826.2	7852.5	7796.6	7938.1	7944.7	7948.0	8017.2
15°	8135.7	8023.7	8040.2	7954.6	7944.7	7915.1	8043.5	8036.9	8033.6	8129.1
17.5°	8316.8	7790.0	7704.4	7645.1	7631.9	7559.5	7678.0	7905.2	7786.7	7720.8
20°	8030.3	7753.8	7414.6	7299.4	7276.4	6647.5	6150.3	6374.2	6677.1	6703.5
22.5°	7770.2	7671.4	7645.1	7464.0	6459.8	6249.1	6268.9	6186.5	5468.8	5156.0
25°	8092.9	8007.3	7895.3	6789.1	6552.0	6476.3	6453.2	5610.4	5044.1	5080.3
27.5°	8451.8	8356.3	7381.7	6805.5	6858.2	6752.8	6232.6	5235.0	5202.1	5264.7
30°	8899.5	8135.7	7203.9	7171.0	7220.4	7085.4	5537.9	5465.5	5455.6	5521.5
32.5°	9409.9	7845.9	7678.0	7678.0	7655.0	6196.4	5834.3	5784.9	5811.2	5880.3
35°	9218.9	8300.3	8280.6	8362.9	7809.7	6357.8	6308.4	6222.8	6242.5	6265.6
37.5°	9008.2	9047.7	9057.6	9014.8	5696.0	6818.7	6779.2	6762.7	6743.0	6749.6
40°	9791.8	9818.1	9808.3	9416.5	6147.0	6907.6	7312.6	7282.9	7279.6	7319.2
42.5°	10707.1	10779.5	10723.6	8306.9	6749.6	5807.9	7928.3	7911.8	7905.2	7987.5
45°	11737.6	11806.8	10631.4	8896.2	7391.6	6012.0	7971.1	8583.5	8632.8	8705.3
47.5°	12853.8	12840.6	9811.6	9801.7	8145.6	6578.3	6627.7	9386.8	9469.1	9495.5
50°	14137.9	12027.4	10743.3	10381.1	8998.3	7213.8	7026.1	8613.1	10430.5	10456.9
52.5°	13864.6	11899.0	11813.4	9107.0	9762.2	7915.1	7730.7	7681.3	10812.5	11447.9
55°	12922.9	13021.7	12899.9	9992.6	7157.8	8540.7	8425.4	8376.0	8043.5	6367.6
57.5°	13969.9	13999.6	13894.2	10805.9	7279.6	5323.9	8293.7	7115.0	4622.6	4599.6
60°	15056.5	15105.8	10348.2	7938.1	4665.4	1781.2	424.7	447.8	1277.5	1122.7
62.5°	16093.6	16143.0	10954.0	7253.3	2946.8	131.7	85.6	59.3	65.8	65.8
65°	17446.8	17466.5	11724.5	7678.0	3062.0	32.9	9.9	0.0	0.0	0.0
67.5°	18148.1	17743.1	11918.7	7872.3	3144.3	19.8	6.6	0.0	0.0	0.0
70°	17087.9	16653.3	11095.6	7378.4	2930.3	16.5	3.3	0.0	0.0	0.0
72.5°	15056.5	14845.7	9959.7	6542.1	2594.5	9.9	3.3	0.0	0.0	0.0
75°	12478.5	12198.6	8257.5	5452.3	2146.7	6.6	0.0	0.0	0.0	0.0
77.5°	8876.5	8909.4	5755.2	3974.0	1461.9	6.6	0.0	0.0	0.0	0.0
80°	3885.1	3974.0	2522.0	1824.0	516.9	3.3	0.0	0.0	0.0	0.0
82.5°	740.8	681.5	329.2	260.1	65.8	0.0	0.0	0.0	0.0	0.0
85°	243.6	266.7	121.8	98.8	29.6	0.0	0.0	0.0	0.0	0.0
87.5°	85.6	108.7	36.2	29.6	6.6	0.0	0.0	0.0	0.0	0.0
90°	13.2	13.2	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)