

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: STREETWORKS

Report Number: P579581

Luminaire Tested: **CST-CA10-630-760-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579581
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: STREETWORKS
Catalog Number: CST-CA10-630-760-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56717 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

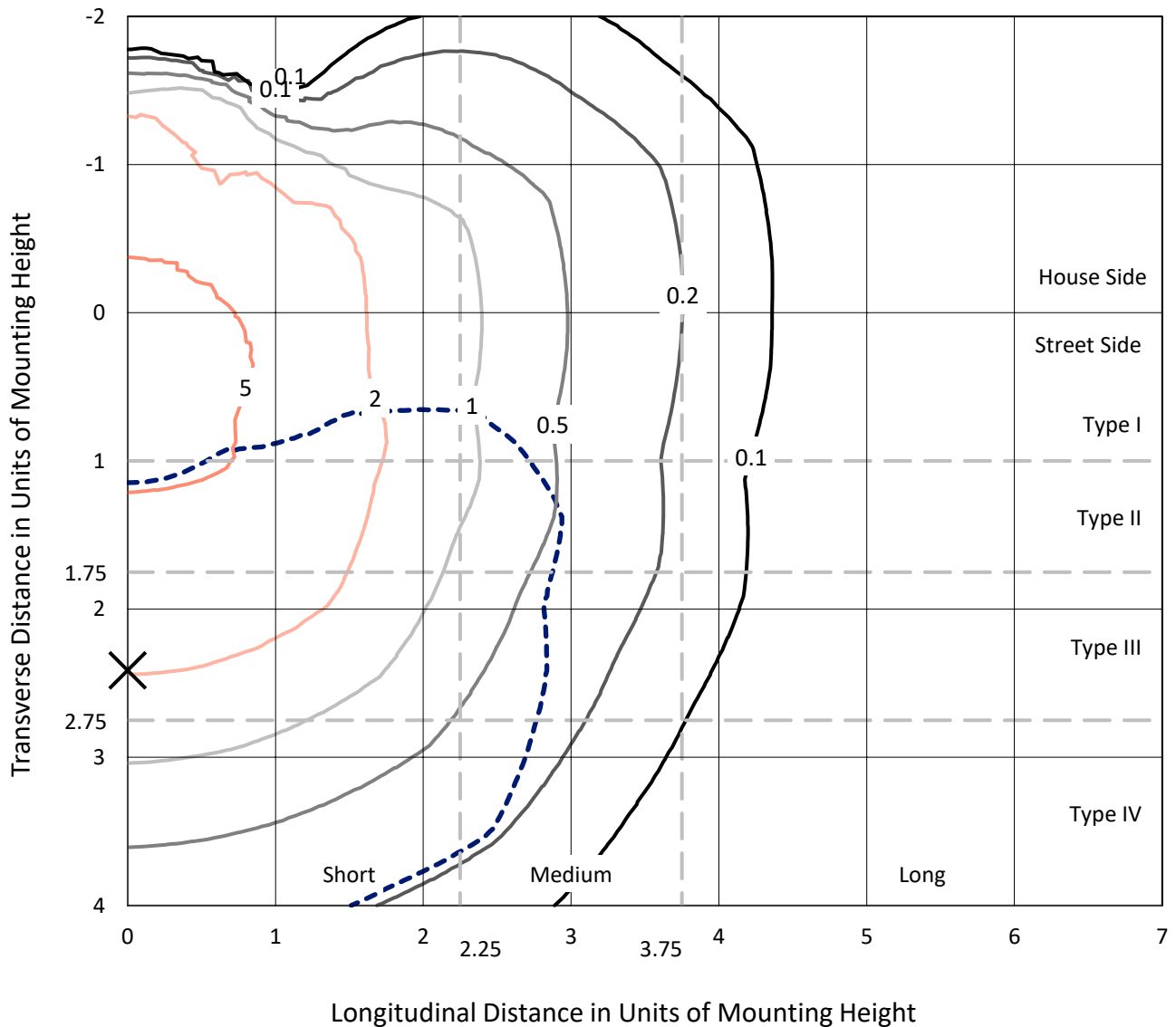
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

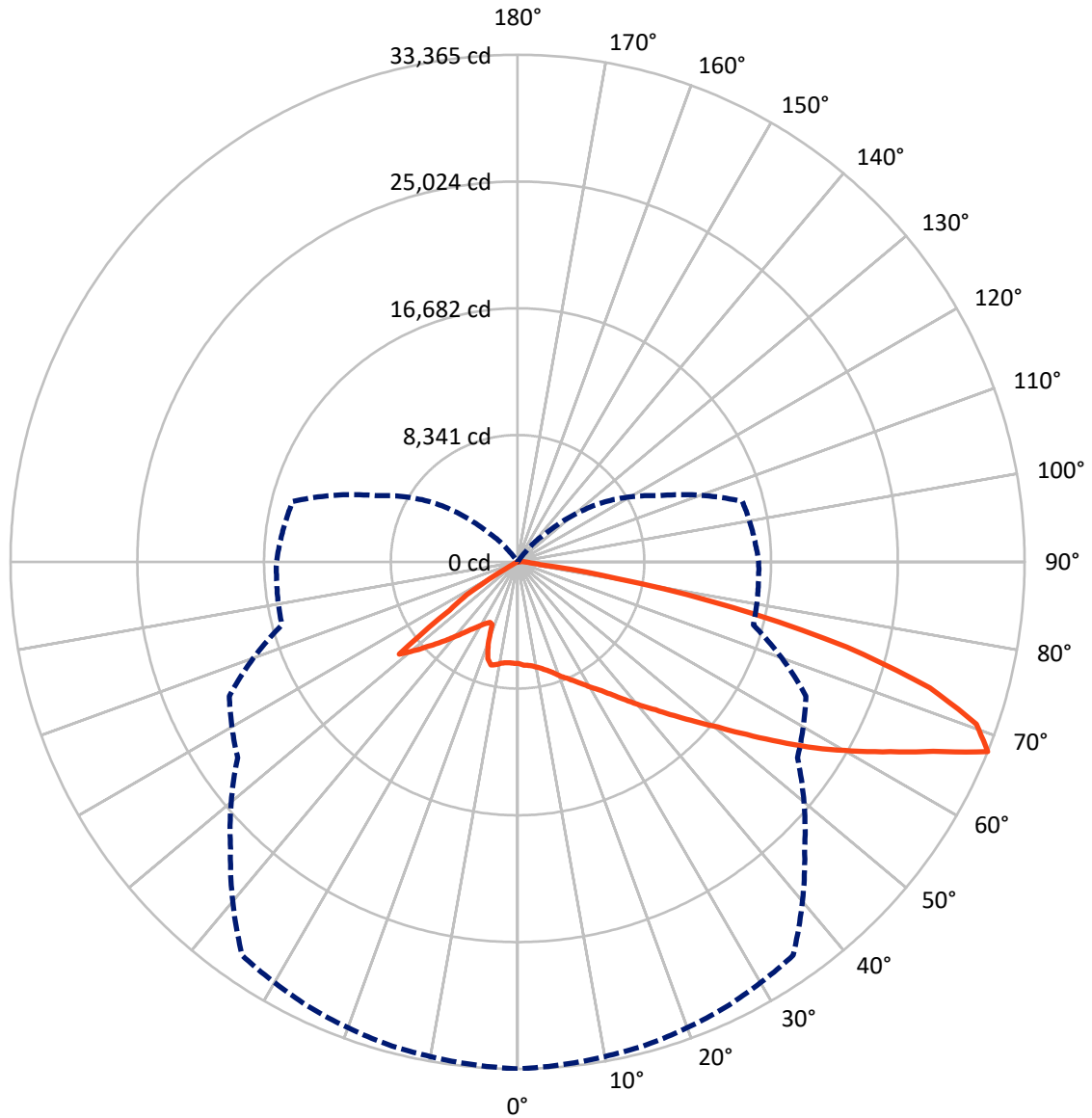
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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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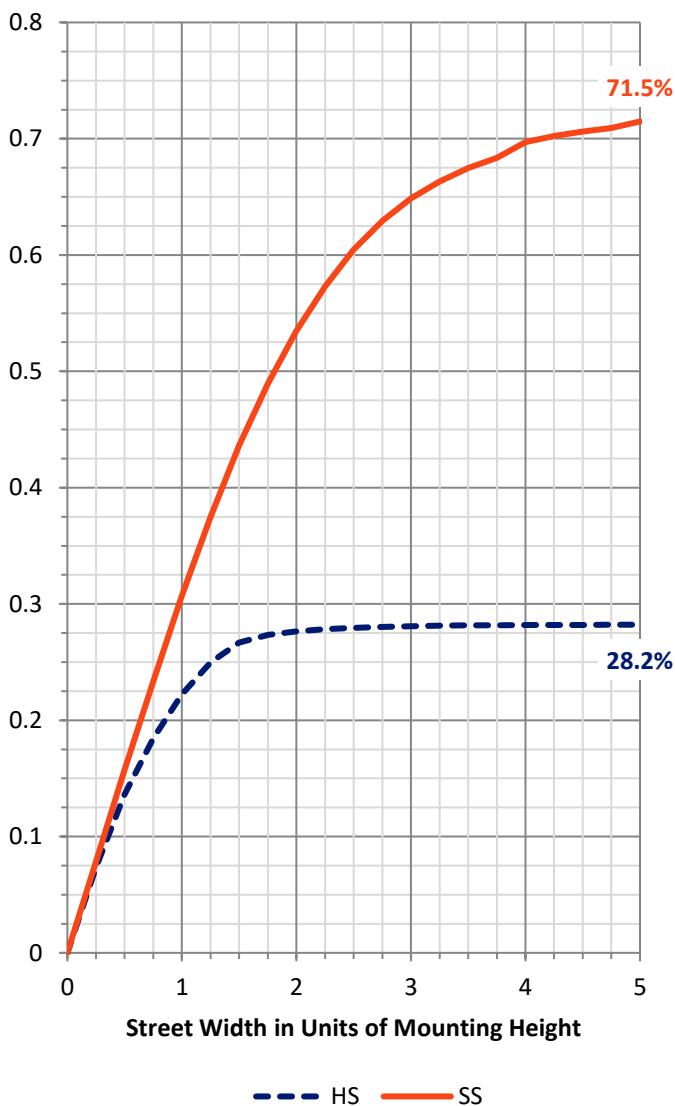
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16074.7	0.2	16074.9
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	40569.9	72.2	40642.1
	% Fixture	71.5	0.1	71.7
Total	Lumens	56644.5	72.5	56717.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.2	1.1
10°-20°	1983.1	3.5
20°-30°	3283.7	5.8
30°-40°	5169.1	9.1
40°-50°	8089.6	14.3
50°-60°	11680.1	20.6
60°-70°	14469.6	25.5
70°-80°	10537.9	18.6
80°-90°	787.2	1.4
90°-100°	61.8	0.1
100°-110°	10.3	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°	56644.5	99.9
0°-180°	56717.0	100.0

Coefficient of Utilization

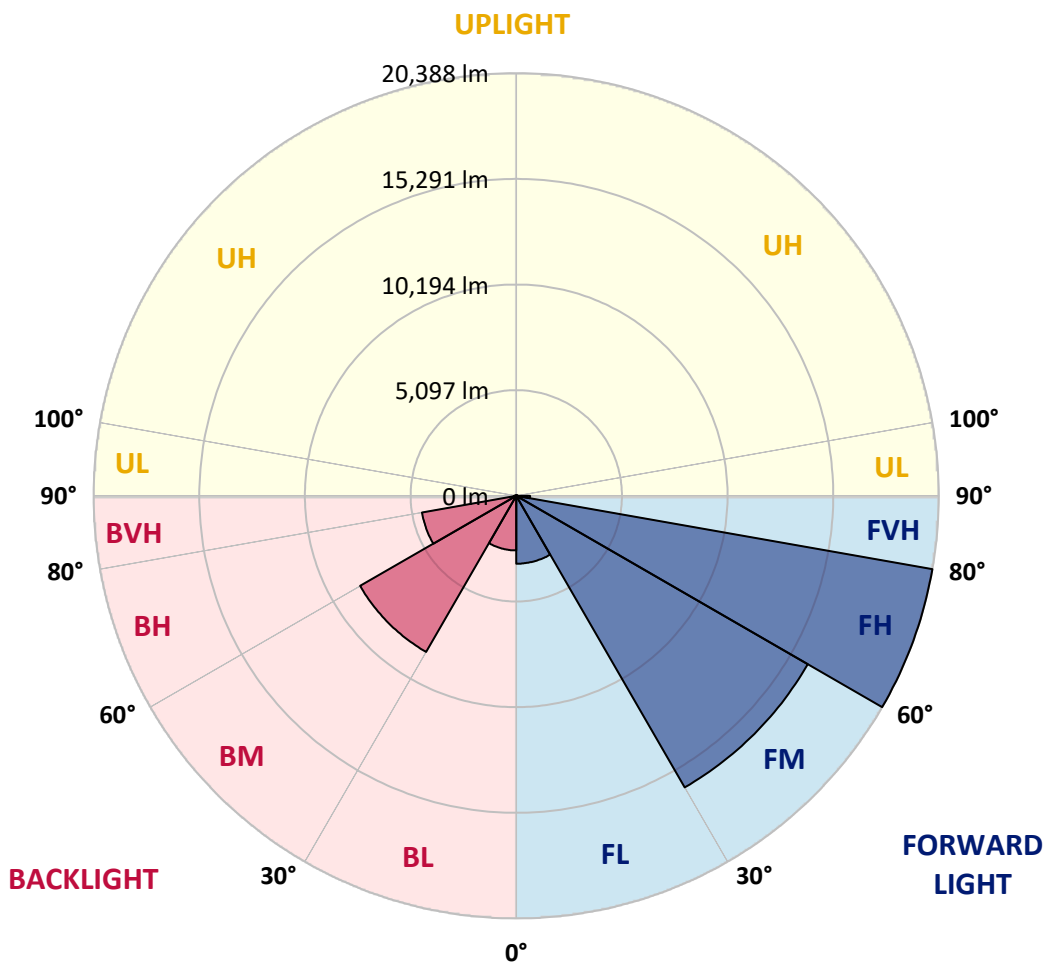


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3275.8	5.8			
FM (30°-60°)	16242.1	28.6			
FH (60°-80°)	20387.9	35.9			G5
FVH (80°-90°)	664.0	1.2			G4/750
BL (0°-30°)	2635.1	4.6	B4/5000		
BM (30°-60°)	8696.7	15.3	B5		
BH (60°-80°)	4619.6	8.1	B4/5000		G4/5000
BVH (80°-90°)	123.2	0.2			G2/225
UL (90°-100°)	61.8	0.1		U3/500	
UH (100°-180°)	10.6	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°	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8
2.5°	6802.0	6765.1	6765.1	6804.9	6694.0	6728.1	6682.6	6722.4	6699.7	6711.1	6725.3
5°	6841.8	6799.2	6802.0	6850.4	6750.9	6779.3	6725.3	6745.2	6725.3	6733.8	6733.8
7.5°	6915.7	6878.8	6878.8	6907.2	6807.7	6816.2	6767.9	6767.9	6742.3	6762.2	6745.2
10°	7055.0	7015.2	6995.3	7009.5	6921.4	6910.0	6844.7	6844.7	6804.9	6836.1	6810.6
12.5°	7222.7	7165.9	7160.2	7163.0	7063.5	7043.6	6969.7	6972.6	6898.7	6941.3	6910.0
15°	7424.5	7353.5	7347.8	7359.2	7254.0	7217.0	7134.6	7134.6	7052.2	7074.9	7032.3
17.5°	7683.2	7600.8	7586.6	7606.4	7501.3	7467.2	7370.5	7353.5	7262.5	7245.5	7208.5
20°	8024.3	7930.5	7902.1	7944.7	7811.1	7779.8	7663.3	7626.3	7504.1	7302.3	7038.0
22.5°	8331.3	8257.4	8240.3	8268.7	8146.5	8115.2	8001.6	7924.8	7629.2	7222.7	6978.3
25°	8680.9	8652.5	8643.9	8626.9	8516.0	8462.0	8354.0	8246.0	7575.2	7018.1	7012.4
27.5°	9113.0	9098.7	9058.9	9044.7	8922.5	8888.4	8746.3	8049.9	7381.9	7342.1	7319.4
30°	9584.8	9556.4	9516.6	9519.4	9437.0	9374.5	9036.2	7876.5	7754.3	7754.3	7694.6
32.5°	10107.8	10076.6	10036.8	10045.3	10011.2	9957.2	8939.6	8334.1	8240.3	8265.9	8192.0
35°	10755.9	10704.7	10690.5	10724.6	10727.5	10377.9	9110.1	8956.6	8882.7	8865.7	8587.1
37.5°	11512.0	11469.4	11520.5	11600.1	11509.2	10485.9	9789.5	9741.1	9667.2	9255.1	8595.6
40°	12418.7	12342.0	12404.5	12455.7	12396.0	11128.3	10502.9	10520.0	10454.6	9232.3	8501.8
42.5°	13317.0	13243.1	13297.1	13425.0	13402.2	11924.2	11372.7	11409.7	10750.2	9286.3	9229.5
45°	14428.4	14402.8	14385.7	14490.9	14579.0	12876.4	12404.5	12401.7	10539.9	10144.8	10093.6
47.5°	15687.6	15653.5	15662.0	15795.6	15929.2	14013.4	13624.0	12481.3	11082.8	11122.6	11077.1
50°	17091.8	17054.8	17165.7	17359.0	17427.2	15289.6	14812.1	12265.3	12214.1	12256.7	12180.0
52.5°	18874.0	18791.6	18962.1	19169.6	19257.7	16799.0	14877.5	13541.5	13456.2	13464.8	13220.3
55°	20900.7	20835.3	20988.8	21221.9	21352.6	18484.6	16236.2	14783.7	14732.5	13282.9	11961.1
57.5°	23103.6	23029.7	23234.3	23302.6	23336.7	20227.0	17603.4	16131.0	13763.2	12128.8	12054.9
60°	25263.9	25184.3	25442.9	25454.3	25553.8	21966.6	18902.4	17430.0	13260.1	13044.1	12981.6
62.5°	27532.2	27432.7	27660.1	27651.5	27455.4	23558.4	20190.1	18677.9	14158.3	13987.8	13891.1
65°	30050.6	29976.7	30135.9	29880.0	29490.6	25204.2	21526.0	20036.6	15204.4	15173.1	15150.4
67.5°	33364.9	33219.9	32898.7	32353.0	31608.3	26713.5	22481.1	20931.9	16054.3	15909.3	15863.8
70°	32031.8	31861.2	31616.8	31017.0	30258.1	25295.1	20946.2	19578.9	15011.1	15016.8	14908.8
72.5°	28362.2	28066.5	27836.3	26994.9	26577.1	22091.7	18251.5	16992.3	12984.4	13226.0	13174.8
75°	22373.1	22071.8	21693.7	21364.0	21318.5	17918.9	14715.5	13808.7	10352.3	10528.5	10656.4
77.5°	14502.3	14391.4	14869.0	14556.3	14837.7	12339.2	10511.5	9732.6	7134.6	7580.9	7521.2
80°	6637.2	6509.3	7276.7	7060.7	7165.9	6060.1	5136.3	4934.5	3229.0	3251.8	3320.0
82.5°	1500.8	1449.7	1503.7	1381.4	1347.3	1139.8	1003.4	909.6	571.3	605.4	636.7
85°	821.5	821.5	810.1	753.3	645.2	531.5	420.7	324.0	176.2	193.3	190.4
87.5°	577.0	562.8	560.0	500.3	429.2	363.8	289.9	207.5	99.5	68.2	62.5
90°	395.1	389.4	369.5	332.6	287.1	235.9	176.2	102.3	42.6	19.9	14.2
92.5°	287.1	281.4	267.2	235.9	196.1	159.2	116.5	68.2	34.1	14.2	2.8
95°	190.4	187.6	179.1	153.5	127.9	102.3	73.9	42.6	28.4	11.4	2.8
97.5°	130.8	127.9	119.4	102.3	82.4	65.4	45.5	31.3	22.7	8.5	2.8
100°	88.1	85.3	79.6	65.4	51.2	39.8	28.4	22.7	17.1	8.5	2.8
102.5°	56.8	54.0	48.3	39.8	28.4	22.7	19.9	17.1	11.4	5.7	2.8
105°	34.1	31.3	25.6	19.9	17.1	14.2	14.2	11.4	8.5	2.8	2.8
107.5°	17.1	14.2	11.4	11.4	11.4	8.5	8.5	8.5	5.7	2.8	0.0
110°	2.8	2.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7	2.8	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°	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8	6679.8
2.5°	6711.1	6665.6	6691.2	6651.4	6642.9	6600.2	6668.4	6677.0	6671.3	6682.6
5°	6719.6	6671.3	6699.7	6651.4	6651.4	6605.9	6671.3	6671.3	6654.2	6659.9
7.5°	6742.3	6694.0	6713.9	6659.9	6662.7	6608.7	6688.3	6679.8	6665.6	6685.5
10°	6807.7	6753.7	6750.9	6699.7	6711.1	6654.2	6753.7	6753.7	6739.5	6776.4
12.5°	6912.9	6833.3	6819.1	6756.5	6779.3	6731.0	6853.2	6858.9	6861.7	6921.4
15°	7023.7	6927.1	6941.3	6867.4	6858.9	6833.3	6944.2	6938.5	6935.6	7018.1
17.5°	7180.1	6725.3	6651.4	6600.2	6588.8	6526.3	6628.6	6824.8	6722.4	6665.6
20°	6932.8	6694.0	6401.2	6301.8	6281.9	5738.9	5309.7	5503.0	5764.5	5787.3
22.5°	6708.2	6623.0	6600.2	6443.9	5576.9	5395.0	5412.1	5341.0	4721.3	4451.3
25°	6986.8	6912.9	6816.2	5861.2	5656.5	5591.1	5571.2	4843.6	4354.7	4385.9
27.5°	7296.6	7214.2	6372.8	5875.4	5920.9	5829.9	5380.8	4519.5	4491.1	4545.1
30°	7683.2	7023.7	6219.3	6190.9	6233.5	6117.0	4781.0	4718.5	4710.0	4766.8
32.5°	8123.8	6773.6	6628.6	6628.6	6608.7	5349.5	5036.9	4994.2	5017.0	5076.6
35°	7958.9	7165.9	7148.8	7219.9	6742.3	5488.8	5446.2	5372.3	5389.3	5409.2
37.5°	7777.0	7811.1	7819.6	7782.7	4917.5	5886.8	5852.6	5838.4	5821.4	5827.1
40°	8453.5	8476.2	8467.7	8129.5	5306.9	5963.5	6313.1	6287.5	6284.7	6318.8
42.5°	9243.7	9306.2	9257.9	7171.5	5827.1	5014.1	6844.7	6830.5	6824.8	6895.8
45°	10133.4	10193.1	9178.3	7680.4	6381.3	5190.3	6881.6	7410.3	7453.0	7515.5
47.5°	11097.0	11085.6	8470.6	8462.0	7032.3	5679.3	5721.9	8103.9	8174.9	8197.7
50°	12205.6	10383.5	9275.0	8962.3	7768.5	6227.8	6065.8	7435.9	9004.9	9027.7
52.5°	11969.6	10272.7	10198.8	7862.3	8427.9	6833.3	6674.1	6631.5	9334.7	9883.3
55°	11156.7	11242.0	11136.8	8626.9	6179.5	7373.4	7273.9	7231.2	6944.2	5497.3
57.5°	12060.6	12086.2	11995.2	9329.0	6284.7	4596.3	7160.2	6142.6	3990.8	3970.9
60°	12998.6	13041.2	8933.9	6853.2	4027.8	1537.8	366.7	386.6	1102.9	969.3
62.5°	13894.0	13936.6	9456.9	6262.0	2544.0	113.7	73.9	51.2	56.8	56.8
65°	15062.2	15079.3	10122.0	6628.6	2643.5	28.4	8.5	0.0	0.0	0.0
67.5°	15667.7	15318.1	10289.7	6796.3	2714.6	17.1	5.7	0.0	0.0	0.0
70°	14752.4	14377.2	9579.1	6370.0	2529.8	14.2	2.8	0.0	0.0	0.0
72.5°	12998.6	12816.7	8598.5	5648.0	2239.9	8.5	2.8	0.0	0.0	0.0
75°	10773.0	10531.3	7128.9	4707.1	1853.3	5.7	0.0	0.0	0.0	0.0
77.5°	7663.3	7691.7	4968.6	3430.9	1262.1	5.7	0.0	0.0	0.0	0.0
80°	3354.1	3430.9	2177.3	1574.7	446.3	2.8	0.0	0.0	0.0	0.0
82.5°	639.6	588.4	284.2	224.6	56.8	0.0	0.0	0.0	0.0	0.0
85°	210.3	230.2	105.2	85.3	25.6	0.0	0.0	0.0	0.0	0.0
87.5°	73.9	93.8	31.3	25.6	5.7	0.0	0.0	0.0	0.0	0.0
90°	11.4	11.4	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)