

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: P579584

Luminaire Tested: **CST-CA10-630-760-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-6)
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-T5N-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: 62296 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

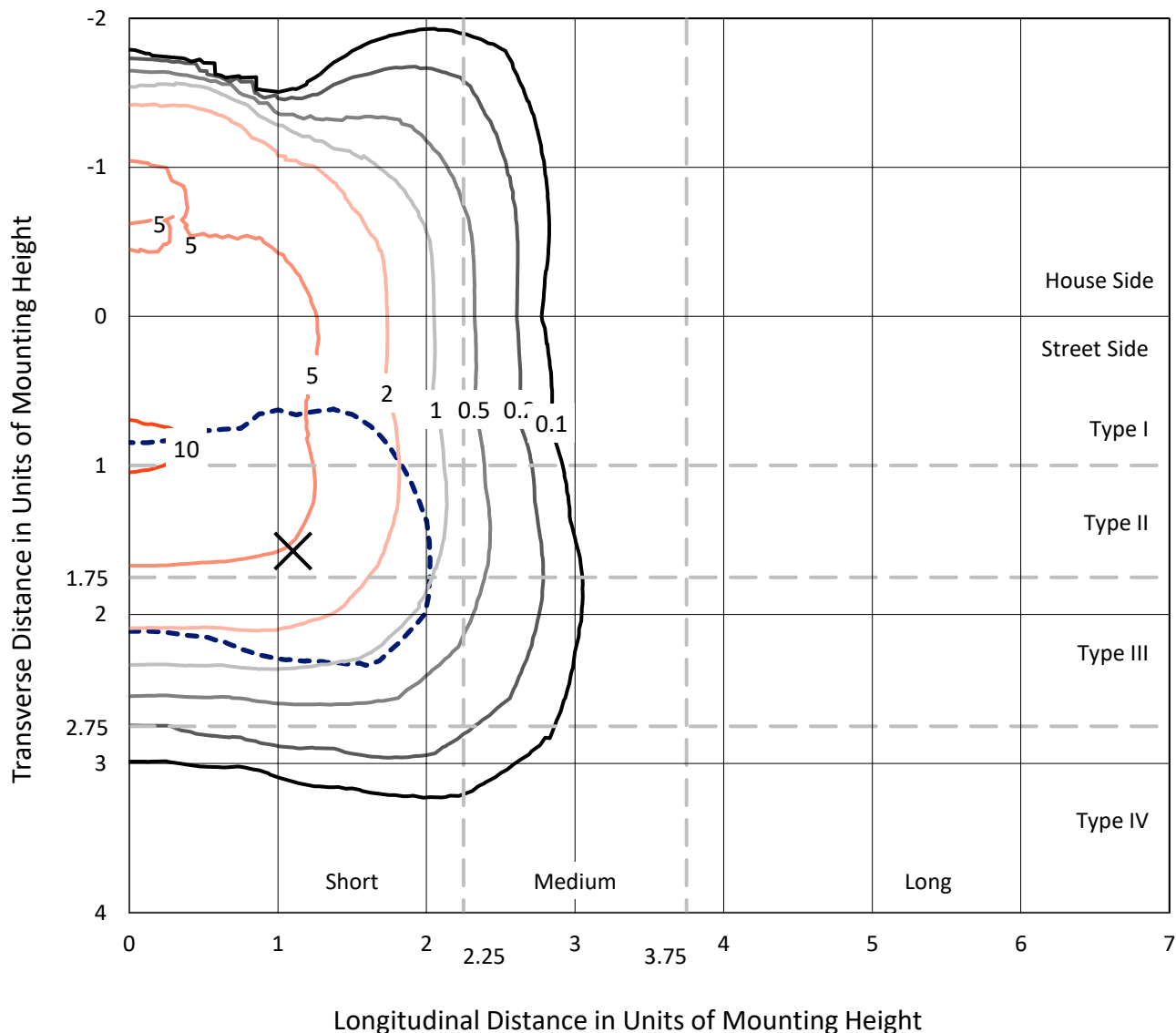
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

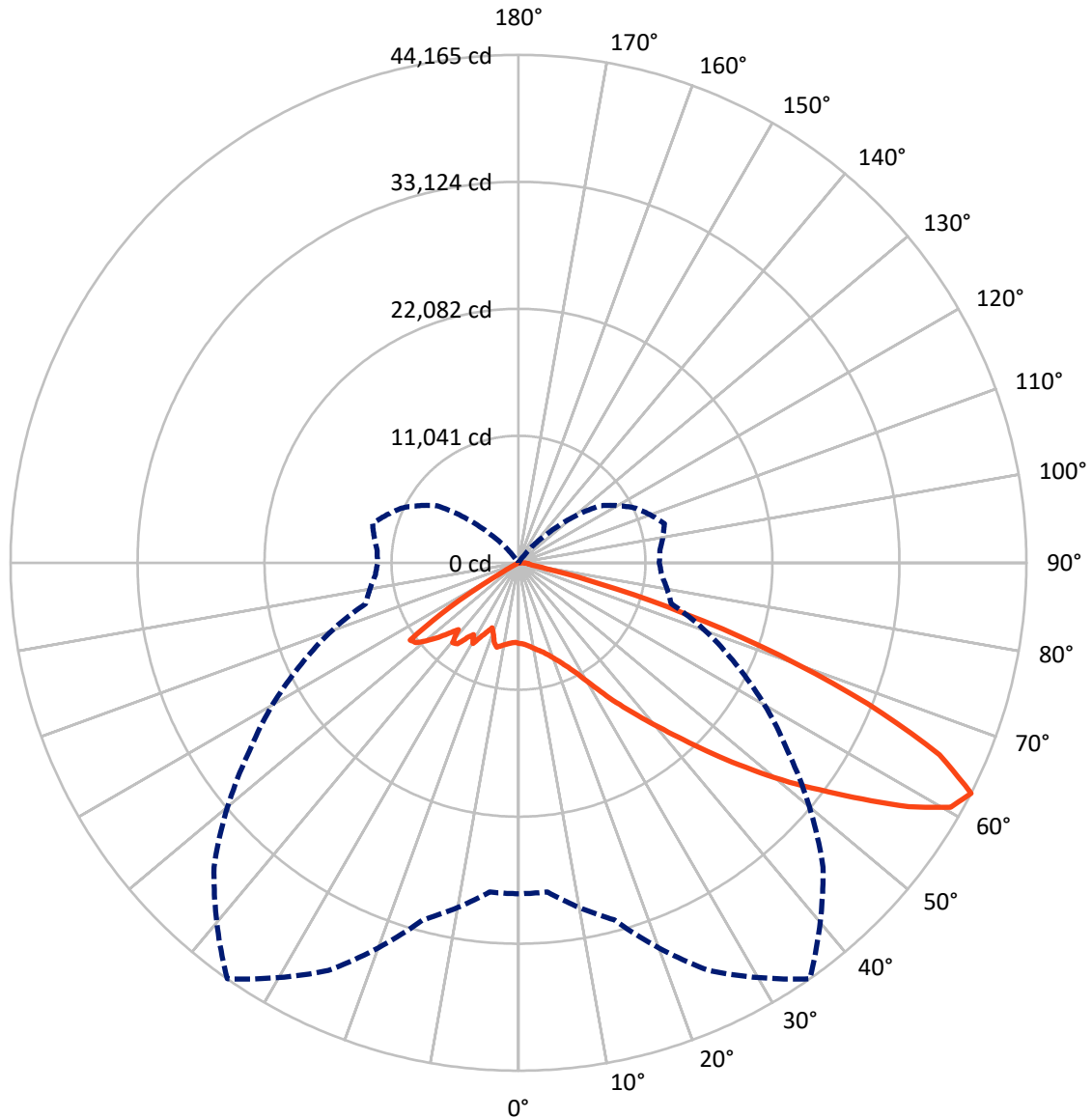
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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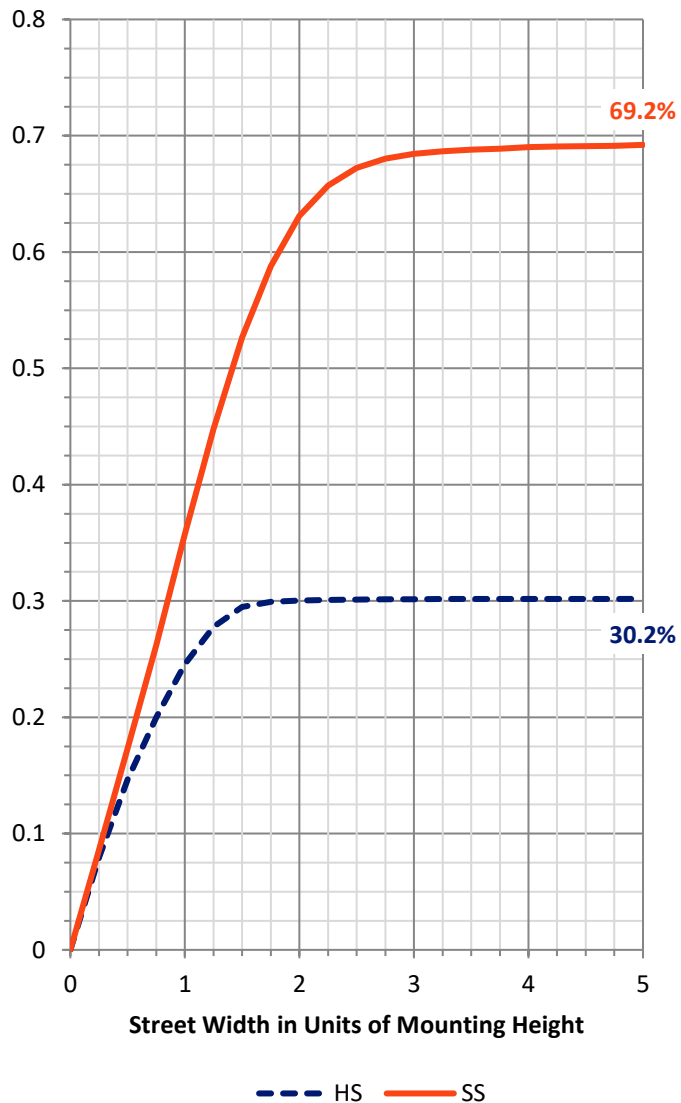
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18907.0	0.0	18907.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	43334.9	54.1	43388.9
	% Fixture	69.6	0.1	69.6
Total	Lumens	62241.9	54.1	62296.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.2	1.1
10°-20°	2221.5	3.6
20°-30°	4060.3	6.5
30°-40°	7737.6	12.4
40°-50°	13280.9	21.3
50°-60°	17816.7	28.6
60°-70°	13544.2	21.7
70°-80°	2564.6	4.1
80°-90°	323.8	0.5
90°-100°	47.6	0.1
100°-110°	6.4	0.0
110°-120°	0.1	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°	62241.9	99.9
0°-180°	62296.0	100.0

Coefficient of Utilization



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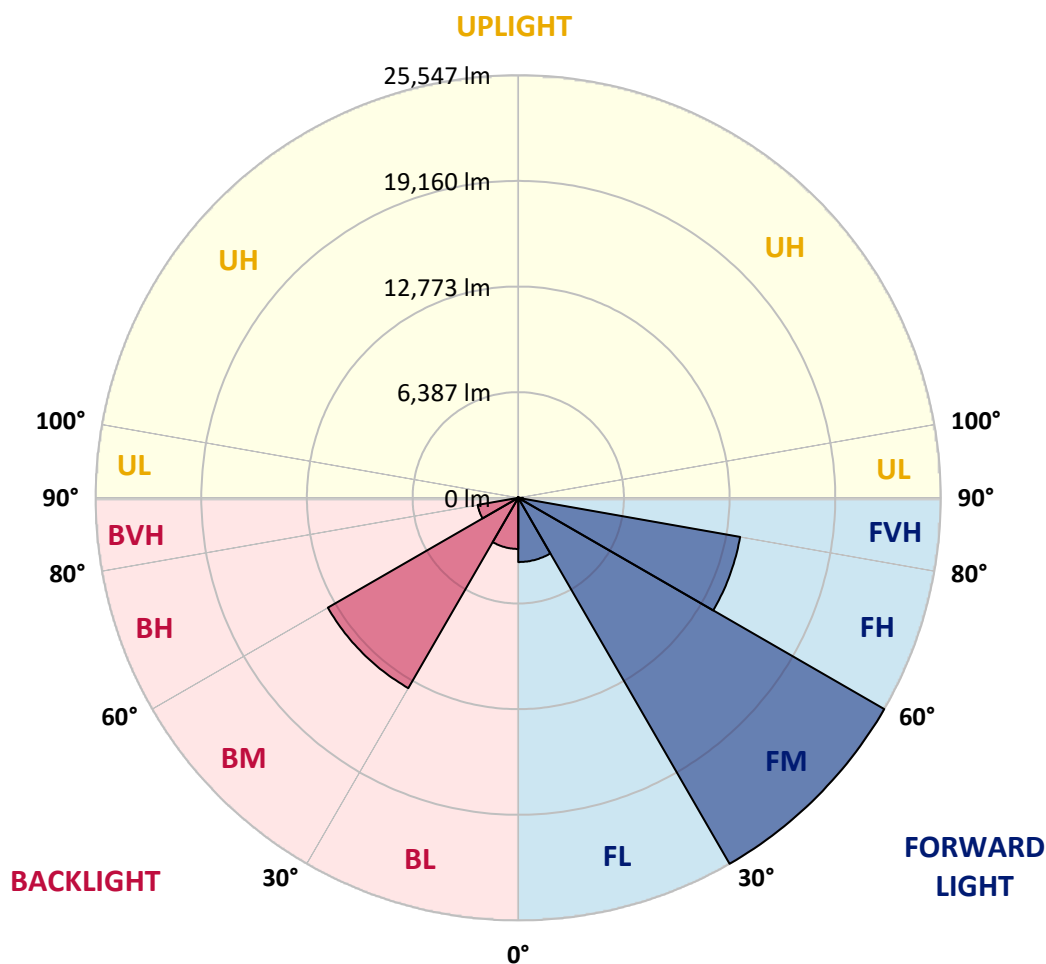
CATALOG NUMBER: CST-CA10-630-760-U-T5N-HSS-HM-EX180

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3883.4	6.2			
FM (30°-60°)	25546.6	41.0			
FH (60°-80°)	13619.0	21.9			G5
FVH (80°-90°)	285.9	0.5			G3/500
BL (0°-30°)	3090.6	5.0	B4/5000		
BM (30°-60°)	13288.7	21.3	B5		
BH (60°-80°)	2489.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	37.9	0.1			G1/100
UL (90°-100°)	47.6	0.1		U2/50	
UH (100°-180°)	6.5	0.0		U1/10	

BUG Rating: B5-U2-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3
2.5°	7188.5	7135.7	7138.6	7185.6	7050.5	7100.5	7041.7	7100.5	7068.2	7091.6	7103.4
5°	7314.8	7262.0	7256.1	7306.0	7191.5	7226.7	7168.0	7209.1	7165.1	7194.4	7194.4
7.5°	7505.7	7452.8	7435.2	7473.4	7367.7	7394.1	7332.4	7355.9	7306.0	7344.2	7323.6
10°	7731.8	7673.1	7652.5	7673.1	7582.0	7596.7	7523.3	7549.7	7476.3	7520.4	7491.0
12.5°	7972.6	7896.2	7896.2	7913.9	7817.0	7819.9	7752.4	7767.0	7693.6	7740.6	7705.4
15°	8233.9	8148.8	8160.5	8178.1	8075.4	8093.0	8022.5	8046.0	7969.7	8016.6	7981.4
17.5°	8580.4	8489.4	8477.7	8530.5	8433.6	8465.9	8386.6	8416.0	8348.5	8363.1	8345.5
20°	9059.1	8944.6	8918.1	8988.6	8880.0	8903.5	8844.7	8903.5	8833.0	8727.3	8430.7
22.5°	9631.7	9531.9	9487.8	9534.8	9405.6	9446.7	9443.8	9537.7	9343.9	8677.4	8380.8
25°	10386.4	10318.9	10233.7	10239.6	10083.9	10145.6	10257.2	10330.6	9505.4	8921.1	8927.0
27.5°	11393.6	11326.1	11208.6	11164.6	10938.5	11088.2	11261.5	10545.0	9896.0	10045.8	9963.5
30°	12679.8	12668.1	12430.2	12353.8	12107.2	12295.1	12145.4	10917.9	11141.1	11349.6	11223.3
32.5°	14391.8	14309.6	13966.0	13828.0	13569.6	13678.2	12356.8	12180.6	12512.4	12794.3	12662.2
35°	16462.0	16212.4	15863.0	15589.9	15140.6	14535.7	13161.4	13505.0	14001.2	14388.8	13748.7
37.5°	18867.0	18596.8	18050.7	17560.3	16852.6	14967.3	14374.2	15061.3	15683.8	15263.9	13786.9
40°	21342.5	21101.7	20587.8	19956.4	18761.3	16306.4	15845.3	16667.6	17375.3	14970.3	14236.1
42.5°	23800.3	23594.8	23180.7	22558.2	21019.5	17900.9	17457.5	18341.4	17674.8	15542.9	15519.4
45°	26278.7	26175.9	25706.1	25174.6	23694.6	19941.8	19263.4	19953.5	17008.2	16914.2	16858.4
47.5°	28287.3	28304.9	28140.5	27864.4	26548.9	22182.3	21298.4	19251.7	17818.7	17921.4	17947.9
50°	30357.5	30225.4	30216.6	30234.2	29685.1	25068.9	22684.4	18934.5	18878.7	18869.9	18846.4
52.5°	32016.6	31849.3	32195.8	32471.8	32797.7	28290.2	22476.0	20009.3	19689.2	19577.6	18893.4
55°	33367.4	33302.8	33866.6	34800.4	36251.1	31702.4	24320.1	21057.6	20417.5	17809.9	16065.6
57.5°	34186.7	34280.7	35443.5	37278.8	39995.1	34530.3	26466.7	22120.6	17481.0	15686.8	15575.2
60°	32618.6	33114.9	35094.1	39123.0	43160.6	37190.7	28064.1	22335.0	15730.8	14770.6	14547.4
62.5°	28780.6	28733.6	32134.1	39123.0	44164.9	37455.0	28569.2	20816.8	13742.8	12491.9	12242.3
65°	20370.5	20493.8	24126.3	35255.6	40233.0	34838.6	26352.1	17698.3	10961.9	9813.8	9476.1
67.5°	12606.4	12597.6	16153.7	25964.5	32750.8	29168.2	22185.2	13566.6	7608.5	6524.9	6157.8
70°	4354.8	4478.2	7264.9	15193.4	24108.6	22851.8	16603.0	8565.8	4011.3	2860.1	2413.8
72.5°	1732.5	1773.6	2607.6	6774.5	15061.3	15266.9	10089.8	4161.0	1201.0	763.5	716.5
75°	1133.5	1139.4	1250.9	2446.1	7308.9	8213.4	4686.7	1195.2	557.9	511.0	499.2
77.5°	977.9	980.8	1039.5	1239.2	2381.5	3194.9	1333.2	707.7	466.9	419.9	408.2
80°	907.4	910.3	939.7	1065.9	1148.2	1089.4	710.6	569.7	393.5	372.9	370.0
82.5°	857.5	869.2	883.9	960.2	927.9	819.3	590.2	461.0	302.5	323.0	331.8
85°	789.9	801.7	810.5	854.5	775.2	599.0	458.1	346.5	193.8	211.4	208.5
87.5°	593.2	599.0	587.3	581.4	540.3	419.9	302.5	220.2	76.3	70.5	64.6
90°	284.8	281.9	270.2	249.6	217.3	170.3	126.3	70.5	32.3	14.7	5.9
92.5°	226.1	223.2	217.3	196.7	170.3	126.3	91.0	49.9	29.4	11.7	2.9
95°	152.7	146.8	141.0	126.3	105.7	76.3	52.9	35.2	23.5	8.8	2.9
97.5°	99.8	96.9	88.1	76.3	58.7	41.1	32.3	26.4	20.6	8.8	2.9
100°	61.7	61.7	55.8	44.0	29.4	23.5	20.6	20.6	14.7	5.9	0.0
102.5°	38.2	35.2	32.3	20.6	14.7	14.7	14.7	14.7	11.7	5.9	0.0
105°	20.6	20.6	14.7	11.7	8.8	5.9	8.8	11.7	8.8	2.9	0.0
107.5°	5.9	5.9	5.9	2.9	2.9	0.0	2.9	5.9	5.9	2.9	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	2.9	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°	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3	7015.3
2.5°	7088.7	7032.9	7047.6	6991.8	6983.0	6924.3	7024.1	7030.0	7003.5	7032.9
5°	7179.7	7112.2	7138.6	7071.1	7059.3	6983.0	7062.3	7053.5	7032.9	7056.4
7.5°	7308.9	7241.4	7256.1	7176.8	7162.1	7077.0	7153.3	7123.9	7097.5	7129.8
10°	7488.1	7411.7	7423.5	7329.5	7317.8	7217.9	7306.0	7262.0	7223.8	7267.8
12.5°	7708.3	7608.5	7596.7	7496.9	7488.1	7394.1	7485.1	7441.1	7402.9	7473.4
15°	7960.8	7828.7	7811.1	7684.8	7670.1	7573.2	7661.3	7596.7	7567.4	7658.4
17.5°	8298.5	7831.6	7570.3	7385.3	7279.6	7226.7	7385.3	7599.7	7535.1	7538.0
20°	8160.5	7658.4	7308.9	7150.4	7035.8	6524.9	5820.1	6022.8	6433.9	6636.5
22.5°	8119.4	7943.2	7799.3	7532.1	6395.7	6107.9	6149.0	6102.0	5326.8	5030.2
25°	8906.4	8703.8	8392.5	6991.8	6662.9	6598.3	6621.8	5811.3	5227.0	5312.1
27.5°	9913.6	9705.1	8169.3	7385.3	7320.7	7235.5	6771.6	5758.5	5837.8	5920.0
30°	11182.2	10086.9	8518.8	8278.0	8157.6	8069.5	6348.7	6430.9	6563.1	6665.9
32.5°	12418.5	10054.6	9520.1	9220.6	9070.8	7361.8	7173.9	7364.7	7499.8	7579.1
35°	12433.1	11205.7	10641.9	10257.2	9305.8	7913.9	8087.1	8407.2	8739.0	8800.7
37.5°	12770.8	12509.5	11863.5	11378.9	6921.3	8833.0	9214.7	9581.8	9913.6	9934.2
40°	14115.7	13833.8	13228.9	12163.0	7643.7	9009.2	10456.9	10870.9	11149.9	11135.2
42.5°	15457.7	15263.9	14635.5	10809.2	8612.7	7805.2	11760.7	12033.8	12210.0	12333.3
45°	16808.5	16614.7	14491.6	11869.3	9766.8	8548.1	11443.5	12991.1	13184.9	13246.5
47.5°	17862.7	17384.1	13278.8	13275.9	11208.6	9499.6	9449.7	13854.4	14024.7	13980.7
50°	18837.6	15519.4	14353.6	13736.9	12700.4	10395.2	10048.7	11657.9	14785.3	14720.7
52.5°	17140.3	15061.3	15275.7	12494.8	13898.4	11285.0	10724.1	10453.9	13434.5	15164.1
55°	15328.5	15622.2	16218.3	13728.1	10083.9	11572.7	11296.7	10759.3	9065.0	7629.0
57.5°	15642.7	16080.3	16109.6	14870.4	10436.3	7229.7	9258.8	8104.7	5121.3	5133.0
60°	14594.4	15164.1	11775.4	9913.6	5611.6	1506.4	146.8	129.2	892.7	1086.5
62.5°	12339.2	13132.0	11240.9	8636.2	3600.1	55.8	14.7	2.9	0.0	0.0
65°	9555.4	10509.7	9499.6	7452.8	3194.9	17.6	0.0	0.0	0.0	0.0
67.5°	6301.7	7162.1	7217.9	6234.2	2663.4	8.8	0.0	0.0	0.0	0.0
70°	2639.9	3717.6	4492.8	4633.8	2093.7	2.9	0.0	0.0	0.0	0.0
72.5°	763.5	1180.5	2161.3	2783.8	1330.2	0.0	0.0	0.0	0.0	0.0
75°	508.0	543.3	625.5	1253.9	663.6	0.0	0.0	0.0	0.0	0.0
77.5°	419.9	428.7	358.3	343.6	190.9	0.0	0.0	0.0	0.0	0.0
80°	381.7	375.9	287.8	202.6	70.5	0.0	0.0	0.0	0.0	0.0
82.5°	352.4	334.8	208.5	105.7	47.0	0.0	0.0	0.0	0.0	0.0
85°	237.9	234.9	94.0	64.6	8.8	0.0	0.0	0.0	0.0	0.0
87.5°	64.6	82.2	20.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	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)