

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: P522172

Luminaire Tested: **CST-CA10-760-740-U-T5R-HSS-HM-EX180**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-740-U-T5R-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70456 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

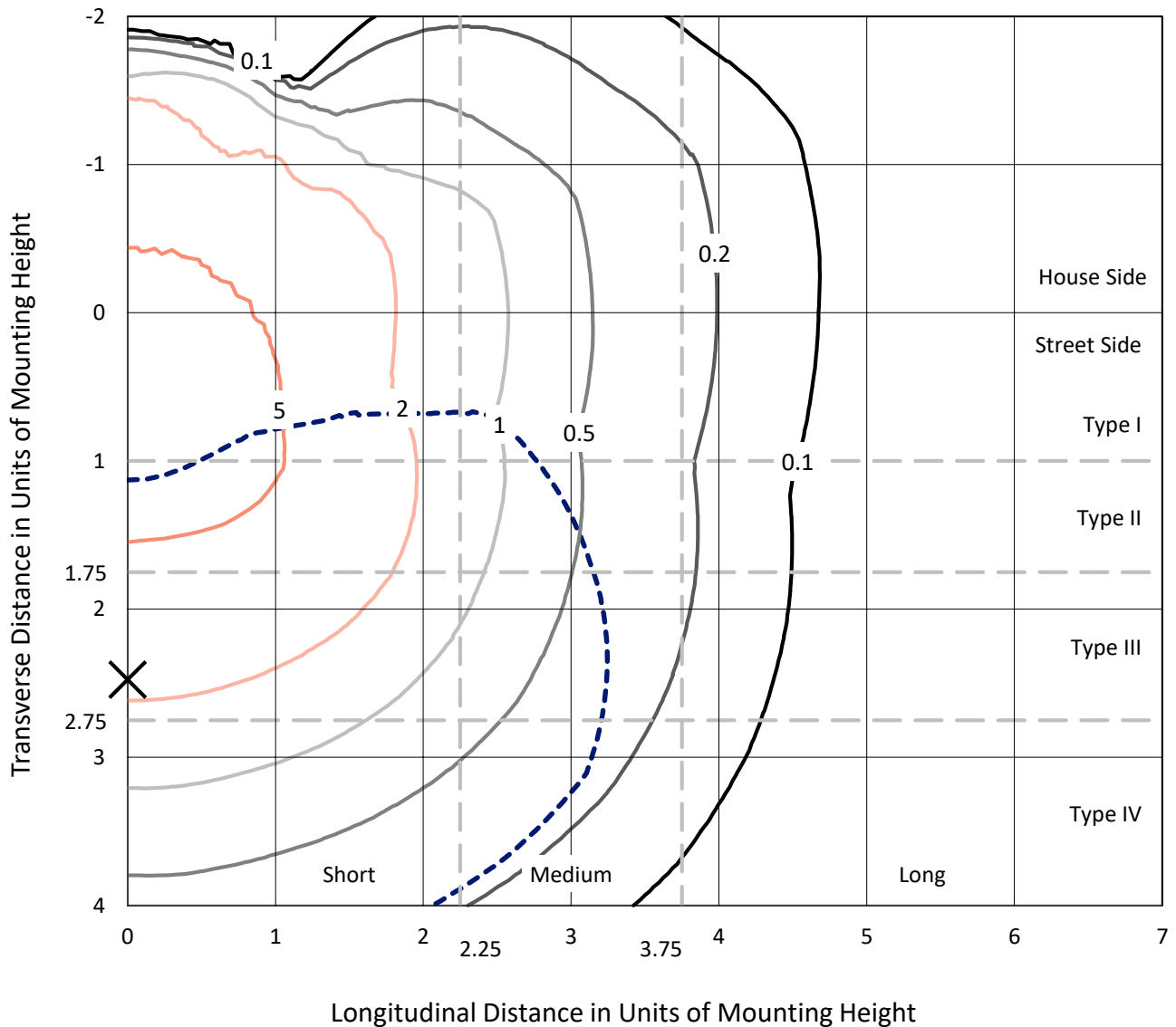
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

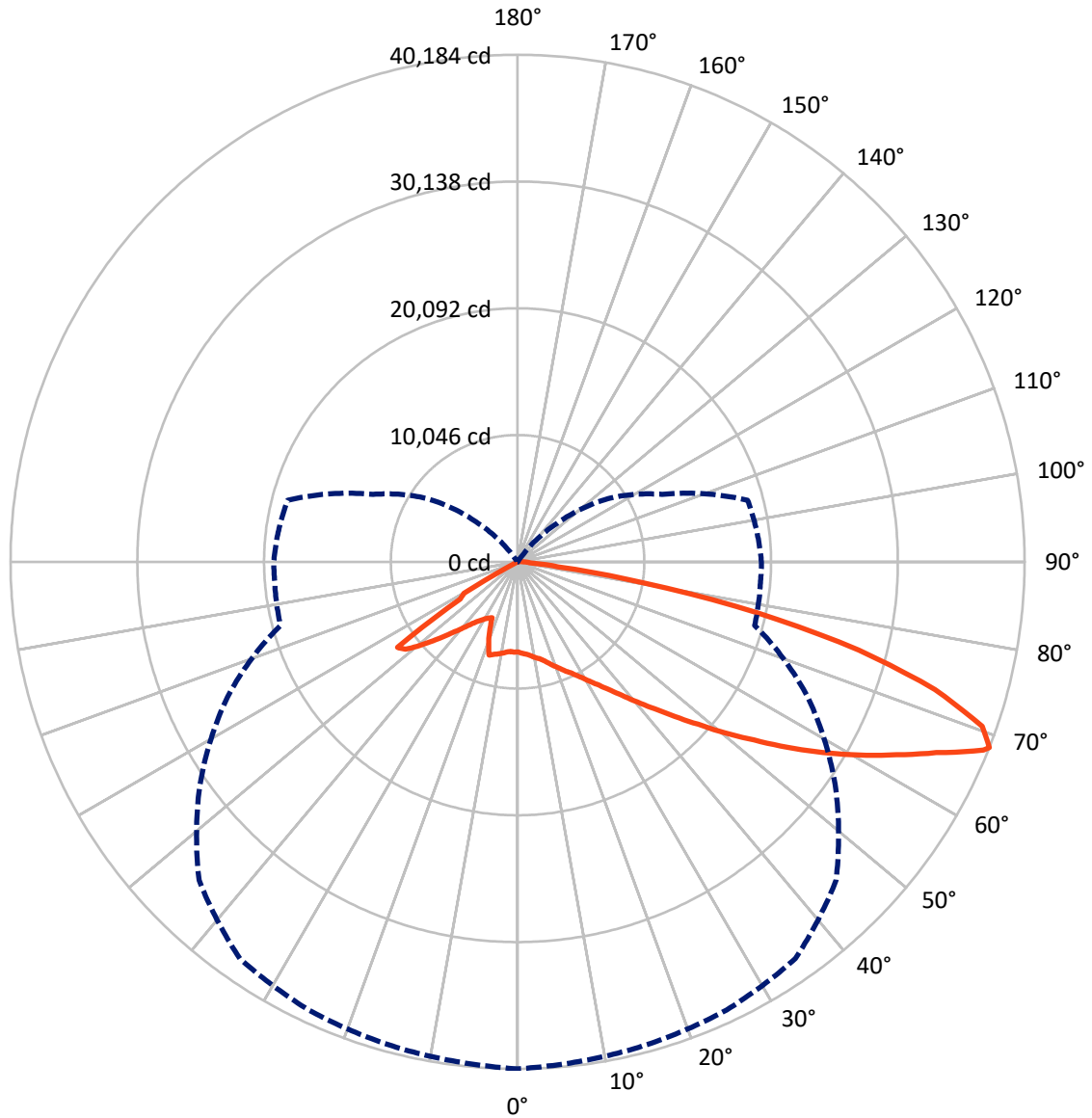
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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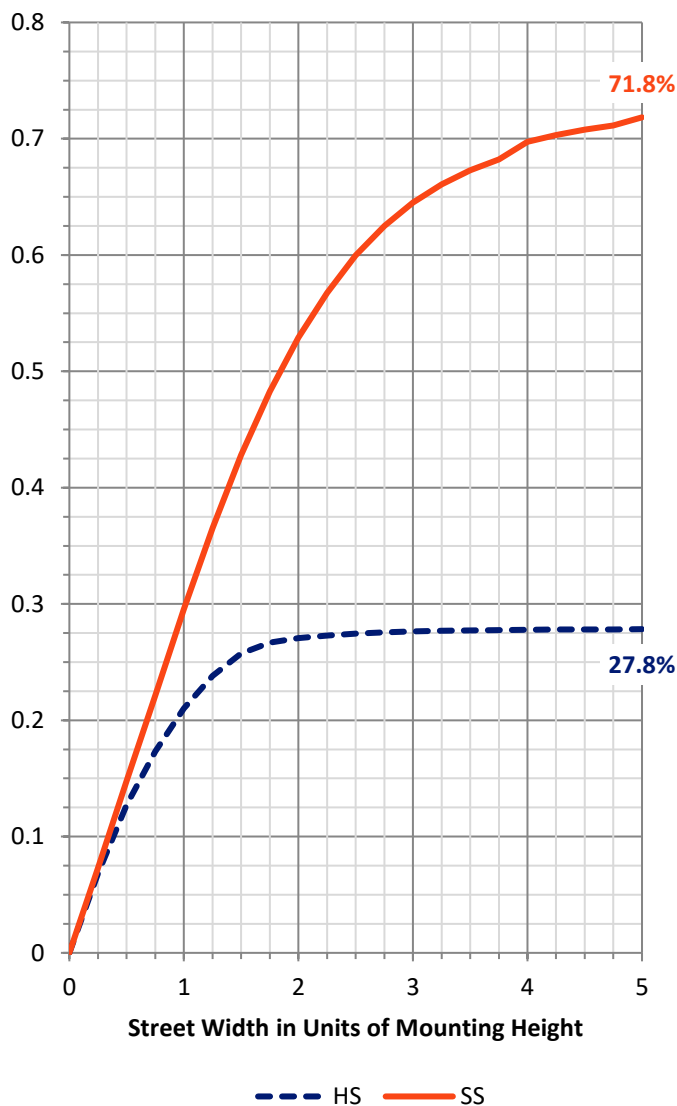
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19678.5	0.4	19678.9
	% Fixture	27.9	0.0	27.9
Street Side	Lumens	50736.8	40.4	50777.1
	% Fixture	72.0	0.1	72.1
Total	Lumens	70415.2	40.8	70456.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.8	1.0
10°-20°	2195.2	3.1
20°-30°	3716.5	5.3
30°-40°	5887.8	8.4
40°-50°	9626.1	13.7
50°-60°	14744.8	20.9
60°-70°	18129.8	25.7
70°-80°	14008.8	19.9
80°-90°	1413.5	2.0
90°-100°	40.1	0.1
100°-110°	0.7	0.0
110°-120°	0.0	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°	70415.2	99.9
0°-180°	70456.0	100.0

Coefficient of Utilization

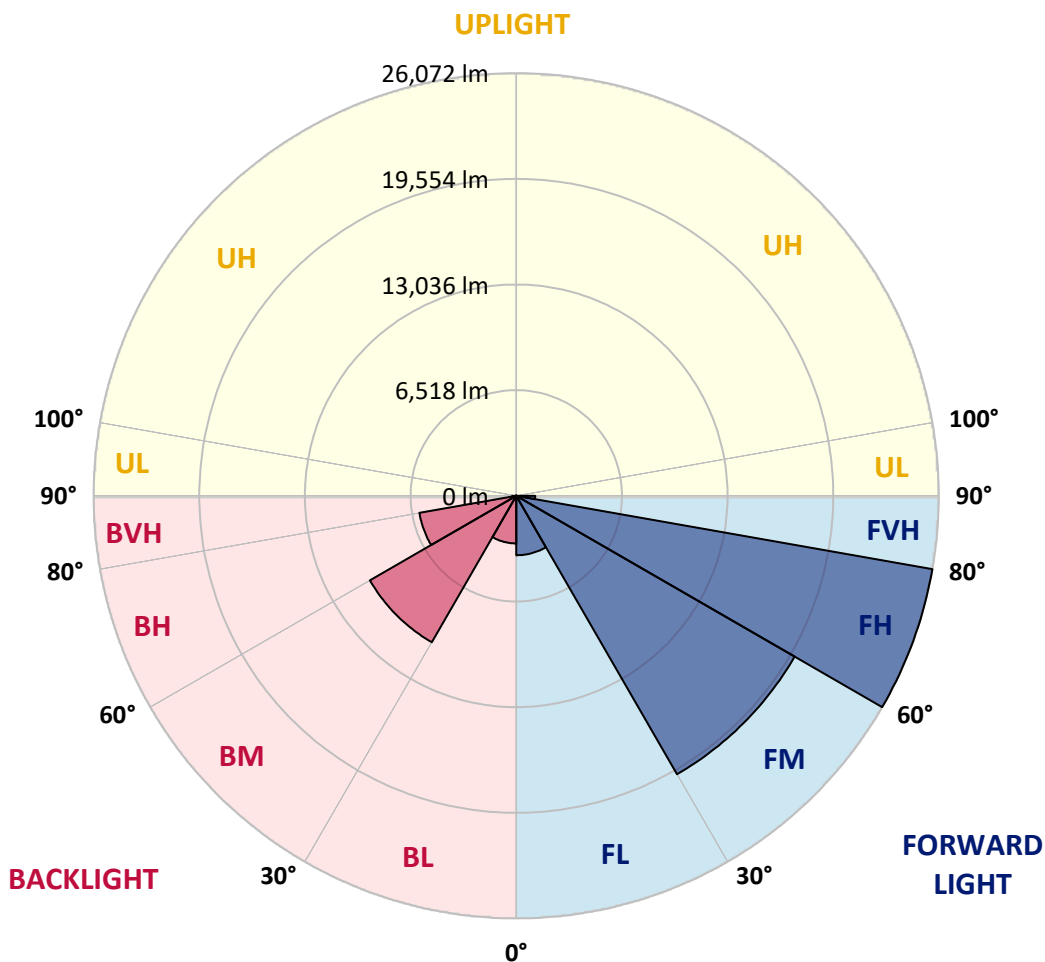


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3667.3	5.2			
FM (30°-60°)	19832.2	28.1			
FH (60°-80°)	26071.7	37.0			G5
FVH (80°-90°)	1165.7	1.7			G5
BL (0°-30°)	2937.2	4.2	B4/5000		
BM (30°-60°)	10426.5	14.8	B5		
BH (60°-80°)	6066.9	8.6	B5		G5
BVH (80°-90°)	247.8	0.4			G3/500
UL (90°-100°)	40.1	0.1		U2/50	
UH (100°-180°)	0.7	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9
2.5°	7266.9	7253.3	7239.8	7270.3	7151.5	7202.4	7161.7	7199.0	7171.9	7202.4	7192.3
5°	7362.0	7348.4	7307.7	7341.6	7263.5	7283.9	7233.0	7246.6	7154.9	7209.2	7205.8
7.5°	7518.1	7480.8	7453.6	7453.6	7385.7	7382.3	7300.9	7304.3	7233.0	7226.2	7239.8
10°	7728.5	7701.4	7626.7	7633.5	7538.5	7524.9	7423.1	7419.7	7362.0	7328.0	7358.6
12.5°	7884.7	7911.8	7843.9	7843.9	7748.9	7681.0	7609.7	7562.2	7518.1	7467.2	7443.4
15°	8169.8	8196.9	8105.3	8101.9	8064.6	7983.1	7905.0	7803.2	7725.1	7701.4	7664.0
17.5°	8539.7	8522.8	8444.7	8448.1	8454.9	8322.5	8244.4	8112.1	8000.1	7918.6	7898.2
20°	8916.5	8916.5	8831.6	8858.8	8824.8	8702.7	8651.7	8468.5	8312.3	8224.1	8152.8
22.5°	9337.4	9320.4	9262.7	9320.4	9252.5	9130.3	9045.5	8862.2	8661.9	8163.0	7959.3
25°	9737.9	9727.7	9751.5	9768.4	9683.6	9530.8	9473.1	9279.7	8723.0	8067.9	7657.3
27.5°	10243.6	10209.7	10264.0	10297.9	10213.1	10080.7	9958.5	9741.3	8563.5	8047.6	8003.5
30°	10891.9	10817.2	10895.3	10912.3	10824.0	10742.6	10559.3	9473.1	8617.8	8468.5	8454.9
32.5°	11584.3	11496.1	11597.9	11611.5	11496.1	11428.2	10966.6	9334.0	9150.7	8977.6	8994.6
35°	12405.7	12405.7	12456.6	12463.4	12378.5	12263.1	10505.0	10012.8	9849.9	9690.4	9687.0
37.5°	13407.0	13376.4	13512.2	13593.7	13502.0	13172.8	11177.0	10946.2	10695.0	10491.4	10070.5
40°	14615.3	14669.6	14706.9	14788.4	14700.2	13960.2	12157.9	11896.6	11699.7	11017.5	9955.1
42.5°	15918.7	15932.2	16013.7	16115.5	16115.5	15334.9	13305.2	13081.1	12826.6	10773.1	10294.5
45°	17476.6	17446.0	17602.2	17765.1	17721.0	16913.2	14639.1	14472.7	13281.4	11482.5	11485.9
47.5°	19245.0	19207.6	19431.6	19645.5	19424.8	18664.6	16105.3	15976.4	12819.8	12684.0	12656.9
50°	21288.2	21196.6	21454.6	21739.7	21559.8	20619.6	17887.3	15409.5	14106.2	13997.6	13980.6
52.5°	23470.7	23399.4	23555.6	24040.9	23803.3	22666.3	19574.2	15898.3	15596.2	15474.0	15443.5
55°	25934.9	25795.7	26131.7	26501.7	26226.8	24930.2	21237.3	17520.7	17208.5	16998.0	16692.5
57.5°	28524.6	28324.4	28497.5	28962.5	28697.7	27248.4	23382.5	19190.6	18820.7	15575.9	14337.0
60°	31104.2	31012.6	31080.4	31491.1	31165.3	29502.1	25391.8	20864.0	15928.8	15406.1	15467.2
62.5°	33697.3	33497.1	33558.2	33979.1	33561.6	31647.3	27295.9	22384.6	16763.8	16580.5	16645.0
65°	36477.2	36239.6	36293.9	36416.1	35900.2	33571.8	28979.4	23820.3	18019.7	17826.2	17897.5
67.5°	39827.2	39610.0	39314.7	38951.5	38238.7	35615.0	30652.8	25330.7	19431.6	19323.0	19346.8
68°	40183.6	39973.2	39616.8	39185.7	38384.7	35699.9	30724.0	25374.8	19452.0	19316.2	19323.0
70°	39073.7	39199.3	38795.4	38072.4	37403.8	34457.6	29559.8	24397.3	18586.5	18386.2	18335.3
72.5°	34603.6	34878.5	34321.9	34199.7	33378.3	30696.9	25867.0	21169.5	16166.4	16230.9	16047.6
75°	27937.4	28341.3	27665.9	27703.2	27234.8	25605.6	21678.6	17625.9	13274.6	13569.9	13624.2
77.5°	19428.2	20008.6	19713.4	20008.6	19777.8	19190.6	16777.4	13573.3	10128.2	10467.6	10600.0
80°	10131.6	10820.6	11211.0	11333.1	11407.8	11384.1	10216.5	8146.0	5854.9	5980.5	5973.7
82.5°	3204.1	3037.8	3136.2	3109.1	3024.2	3058.1	2756.1	2155.3	1493.4	1646.2	1574.9
85°	967.3	974.1	947.0	940.2	868.9	763.7	624.5	359.8	176.5	207.0	193.5
87.5°	712.8	719.6	665.3	631.3	590.6	512.5	397.1	224.0	84.9	81.5	64.5
90°	393.7	380.1	353.0	325.8	308.9	264.7	200.3	84.9	30.5	23.8	20.4
92.5°	213.8	203.7	190.1	179.9	156.1	125.6	81.5	27.2	13.6	3.4	0.0
95°	98.4	91.6	88.2	78.1	67.9	47.5	27.2	17.0	10.2	3.4	0.0
97.5°	44.1	40.7	37.3	30.5	23.8	13.6	13.6	10.2	6.8	3.4	0.0
100°	10.2	10.2	6.8	6.8	6.8	6.8	6.8	6.8	6.8	3.4	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9	7137.9
2.5°	7182.1	7161.7	7151.5	7087.0	7107.4	7049.7	7161.7	7134.5	7117.6	7165.1
5°	7188.9	7117.6	7161.7	7124.4	7137.9	7056.5	7144.7	7107.4	7104.0	7124.4
7.5°	7205.8	7158.3	7202.4	7127.8	7161.7	7127.8	7192.3	7154.9	7185.5	7205.8
10°	7297.5	7270.3	7250.0	7233.0	7256.7	7188.9	7270.3	7273.7	7283.9	7345.0
12.5°	7426.4	7399.3	7365.4	7321.2	7345.0	7317.8	7378.9	7395.9	7433.2	7463.8
15°	7606.3	7555.4	7541.9	7501.1	7524.9	7511.3	7524.9	7514.7	7586.0	7575.8
17.5°	7854.1	7796.4	7602.9	7406.1	7280.5	7317.8	7474.0	7677.6	7728.5	7735.3
20°	7945.8	7538.5	7518.1	7294.1	7192.3	7185.5	6863.0	6381.0	6527.0	6869.8
22.5°	7837.1	7280.5	7222.8	7178.7	6744.2	6031.4	5963.6	5892.3	5875.3	5926.2
25°	7592.8	7528.3	7477.4	6900.4	6214.7	6218.1	6119.7	5651.3	4921.5	4860.5
27.5°	7966.1	7877.9	7385.7	6496.4	6482.9	6476.1	6330.1	5128.6	4972.5	5009.8
30°	8390.4	8244.4	6958.1	6842.7	6839.3	6778.2	5675.1	5172.7	5172.7	5179.5
32.5°	8879.2	7972.9	7202.4	7256.7	7253.3	6964.8	5481.6	5447.6	5434.1	5468.0
35°	9252.5	7755.7	7728.5	7827.0	7759.1	5909.3	5824.4	5793.9	5780.3	5763.3
37.5°	9137.1	8380.2	8380.2	8441.3	7894.8	6292.8	6252.1	6252.1	6224.9	6211.3
40°	9313.6	9157.5	9079.4	9103.2	5736.2	6757.8	6788.3	6781.6	6778.2	6801.9
42.5°	10243.6	10104.5	10033.2	9191.4	6421.8	6717.1	7463.8	7460.4	7470.6	7460.4
45°	11428.2	11299.2	11112.5	8600.8	7290.7	5888.9	8227.5	8264.8	8268.2	8264.8
47.5°	12670.4	12589.0	10678.1	9520.7	8234.3	6319.9	7864.3	9184.6	9167.7	9188.0
50°	13984.0	13617.4	10623.8	10610.2	9238.9	7032.7	7036.1	9989.0	10162.2	10216.5
52.5°	15446.9	12344.6	11774.4	10742.6	10257.2	7765.9	7691.2	8852.0	11214.3	11268.7
55°	14347.2	13040.4	13030.2	9561.4	10671.3	8471.9	8482.0	8400.6	10284.3	11689.5
57.5°	14275.9	14306.4	14282.7	10667.9	7786.2	7942.4	9242.3	9171.1	6659.4	5396.7
60°	15508.0	15552.1	13875.4	11519.8	8417.5	4884.2	5692.0	4836.7	4901.2	4952.1
62.5°	16685.7	16699.3	11285.6	7552.0	4171.4	196.9	95.0	78.1	74.7	74.7
65°	17989.1	17989.1	12096.8	8237.7	4028.9	74.7	13.6	10.2	37.3	37.3
67.5°	19248.3	18970.0	12690.8	8746.8	4100.2	10.2	0.0	0.0	0.0	0.0
68°	19177.1	18871.6	12636.5	8733.2	4090.0	6.8	0.0	0.0	0.0	0.0
70°	18111.3	17816.0	11988.2	8336.1	3937.2	6.8	0.0	0.0	0.0	0.0
72.5°	15986.6	15715.0	10617.0	7348.4	3550.3	3.4	0.0	0.0	0.0	0.0
75°	13532.6	13495.2	9171.1	6201.2	3044.6	3.4	0.0	0.0	0.0	0.0
77.5°	10888.5	10718.8	7168.5	4860.5	2454.0	0.0	0.0	0.0	0.0	0.0
80°	6065.4	6316.6	4195.2	2857.9	1544.3	0.0	0.0	0.0	0.0	0.0
82.5°	1639.4	1534.2	916.4	621.1	295.3	0.0	0.0	0.0	0.0	0.0
85°	210.4	230.8	105.2	84.9	20.4	0.0	0.0	0.0	0.0	0.0
87.5°	108.6	129.0	33.9	27.2	6.8	0.0	0.0	0.0	0.0	0.0
90°	20.4	23.8	10.2	3.4	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)