

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: P522168

Luminaire Tested: **CST-CA10-760-730-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-730-U-T5R-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80584 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

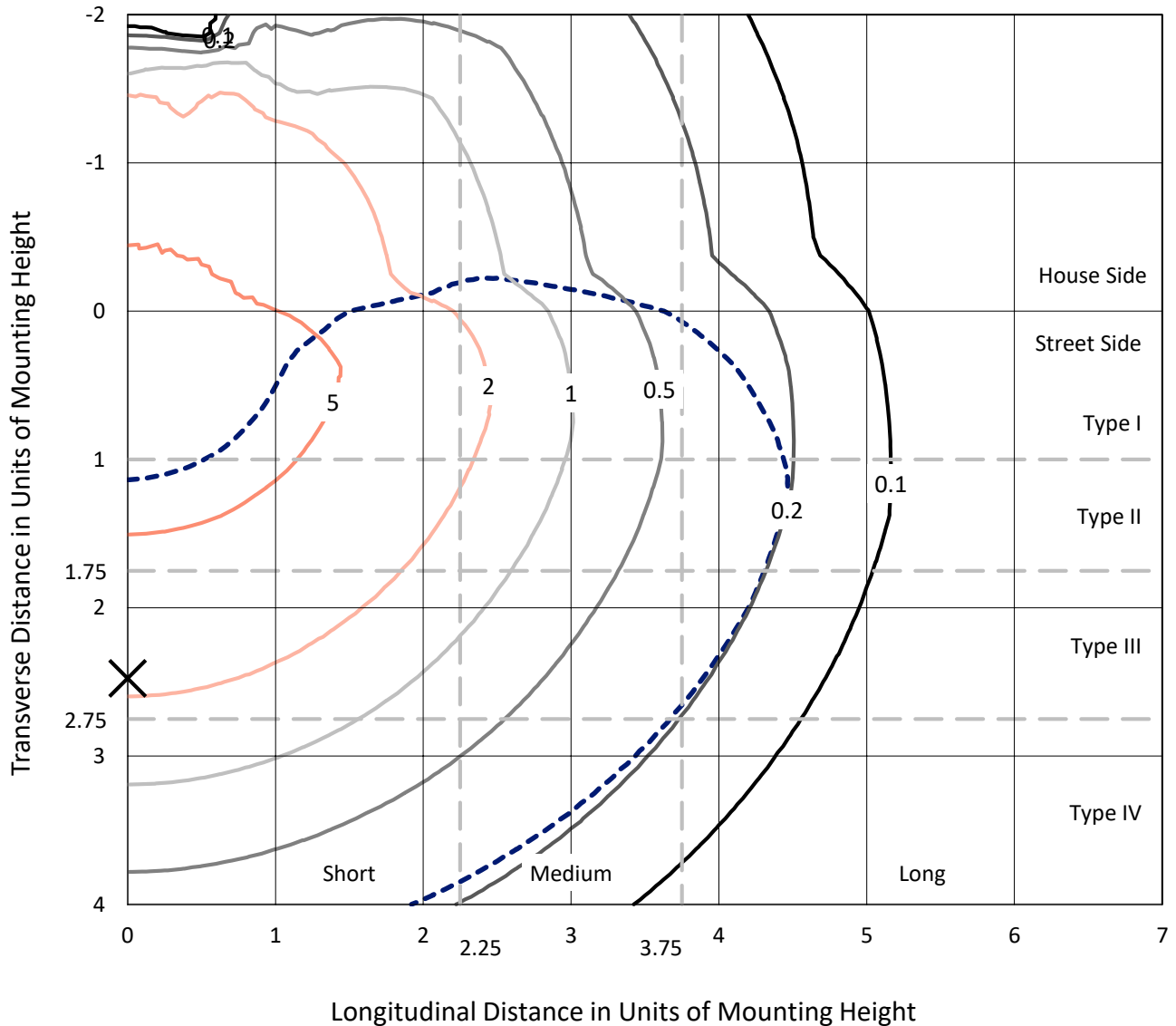
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

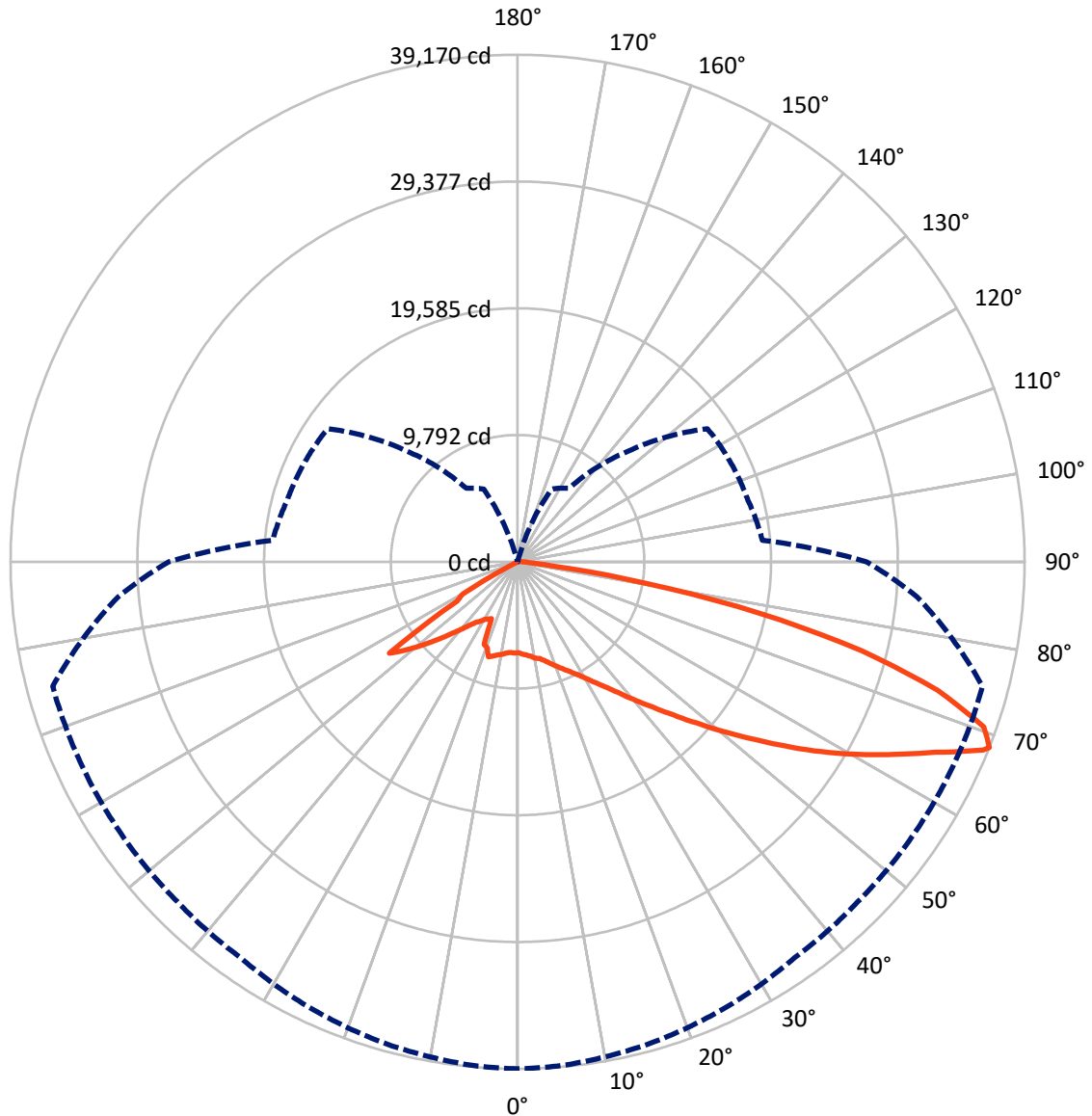
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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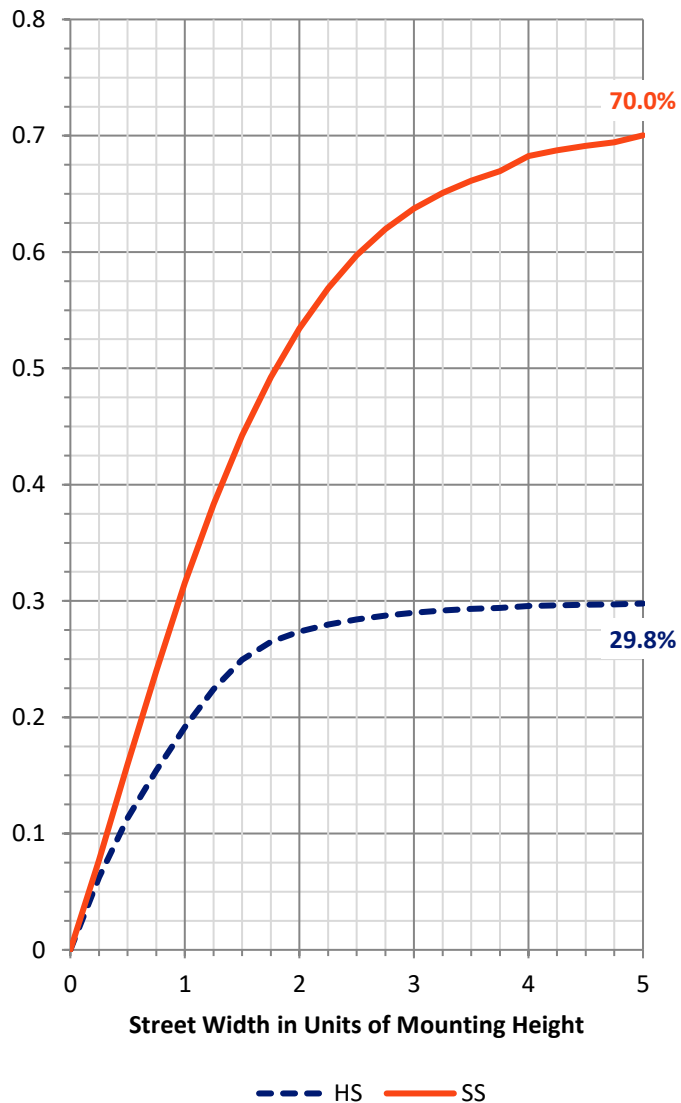
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24021.2	3.7	24024.9
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	56526.1	33.0	56559.1
	% Fixture	70.1	0.0	70.2
Total	Lumens	80547.3	36.7	80584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.9	0.8
10°-20°	2170.2	2.7
20°-30°	3717.2	4.6
30°-40°	6030.2	7.5
40°-50°	10169.6	12.6
50°-60°	16576.8	20.6
60°-70°	22232.1	27.6
70°-80°	17268.6	21.4
80°-90°	1700.7	2.1
90°-100°	32.3	0.0
100°-110°	1.8	0.0
110°-120°	0.5	0.0
120°-130°	0.3	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	80547.3	100.0
0°-180°	80584.0	100.0

Coefficient of Utilization

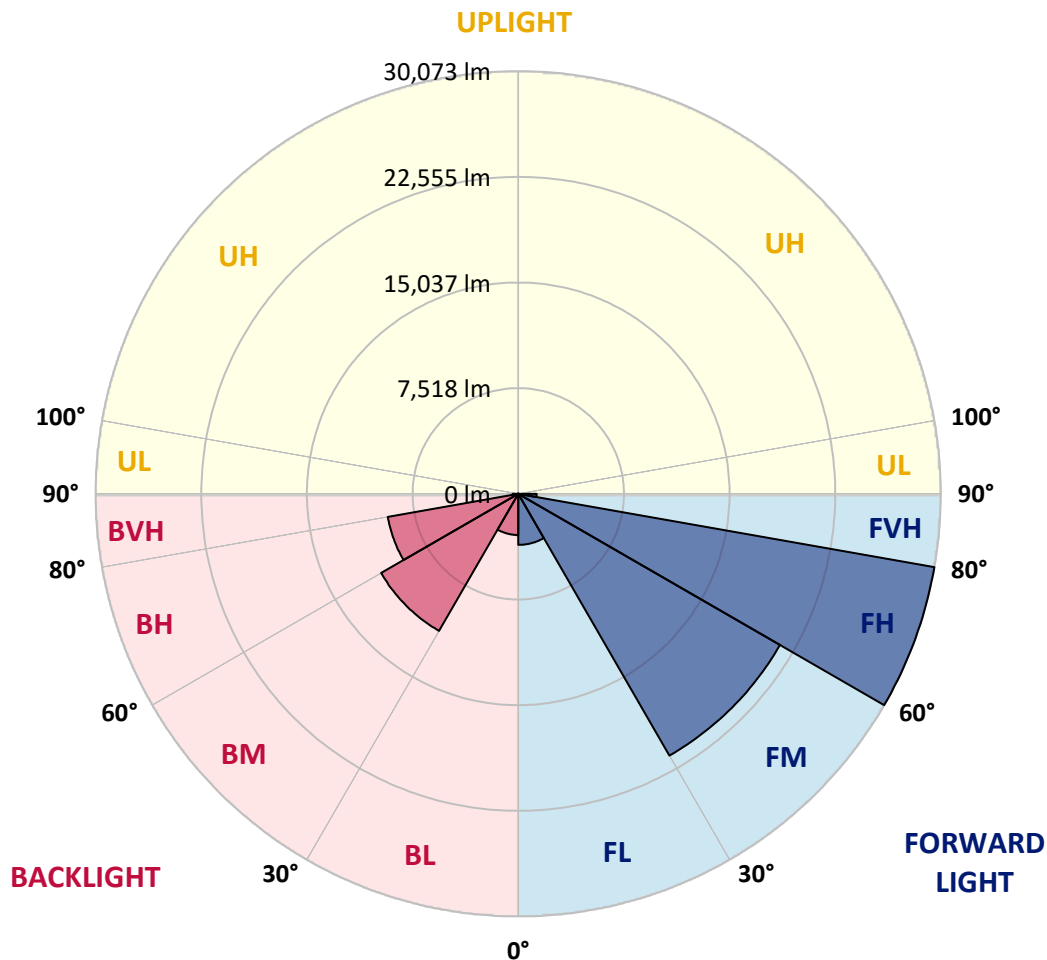


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3634.8	4.5			
FM	(30°-60°)	21510.7	26.7			
FH	(60°-80°)	30073.0	37.3			G5
FVH	(80°-90°)	1307.6	1.6			G5
BL	(0°-30°)	2934.5	3.6	B4/5000		
BM	(30°-60°)	11265.9	14.0	B5		
BH	(60°-80°)	9427.8	11.7	B5		G5
BVH	(80°-90°)	393.1	0.5			G3/500
UL	(90°-100°)	32.3	0.0		U2/50	
UH	(100°-180°)	4.4	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°	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4
2.5°	7142.1	7122.1	7118.8	7158.7	7032.1	7095.4	7038.8	7085.4	7055.4	7078.8	7082.1
5°	7238.7	7202.1	7178.7	7225.4	7145.4	7175.4	7112.1	7132.1	7048.8	7095.4	7102.1
7.5°	7378.7	7318.7	7312.1	7325.4	7255.4	7278.7	7175.4	7198.7	7138.7	7112.1	7135.4
10°	7568.7	7512.0	7468.7	7498.7	7405.4	7418.7	7308.7	7312.1	7268.7	7218.7	7258.7
12.5°	7675.3	7682.0	7662.0	7685.3	7608.7	7565.3	7488.7	7462.0	7418.7	7358.7	7338.7
15°	7941.9	7928.6	7888.6	7925.3	7915.3	7875.3	7782.0	7722.0	7628.7	7595.3	7562.0
17.5°	8268.6	8225.2	8191.9	8238.6	8288.5	8205.2	8115.2	8031.9	7908.6	7842.0	7802.0
20°	8611.8	8581.8	8548.5	8621.8	8638.5	8575.2	8508.5	8385.2	8241.9	8155.2	8071.9
22.5°	8995.1	8935.1	8945.1	9041.7	9011.8	8981.8	8895.1	8795.1	8621.8	8511.8	8271.9
25°	9391.7	9358.4	9405.0	9448.3	9425.0	9361.7	9318.4	9245.0	9051.7	8918.4	8568.5
27.5°	9884.9	9831.6	9891.6	9908.3	9888.3	9871.6	9811.6	9755.0	9545.0	9395.0	8958.4
30°	10464.8	10401.5	10498.2	10474.8	10454.8	10468.2	10431.5	10308.2	10121.6	9918.3	9481.7
32.5°	11154.7	11071.4	11181.4	11131.4	11084.7	11178.0	11091.4	10974.7	10754.8	10518.2	10091.6
35°	11954.6	11957.9	12014.6	11931.2	11914.6	12014.6	11957.9	11814.6	11611.3	11364.7	10758.1
37.5°	12924.4	12897.7	13041.0	13001.1	12941.1	13074.4	13091.0	12911.1	12544.5	12301.2	11584.6
40°	14104.2	14097.5	14144.2	14150.9	14134.2	14197.5	14227.5	13987.5	13750.9	13384.3	10931.4
42.5°	15364.0	15390.6	15474.0	15414.0	15494.0	15577.3	15587.3	15387.3	15047.4	12841.1	11611.3
45°	16877.0	16960.4	17017.0	17003.7	17040.3	17160.3	17170.3	17063.7	16730.4	13910.9	12844.4
47.5°	18613.4	18693.4	18710.1	18816.7	18783.4	18953.3	18930.0	18933.3	18576.7	15400.6	14187.5
50°	20609.7	20646.4	20783.0	20843.0	20759.7	20989.7	20929.7	21003.0	20563.1	17107.0	15630.6
52.5°	22729.4	22792.7	22849.3	23076.0	22969.3	23169.3	23089.3	23259.3	22749.3	18843.4	17233.6
55°	25138.9	25148.9	25245.6	25475.5	25335.6	25575.5	25458.9	25522.2	25115.6	20763.0	18903.4
57.5°	27691.8	27658.5	27695.1	27878.4	27751.8	27931.8	27885.1	27945.1	27565.2	22782.7	20123.1
60°	30218.0	30168.0	30221.4	30344.7	30171.4	30481.3	30314.7	30371.3	29961.4	24845.6	21862.8
62.5°	32757.6	32720.9	32660.9	32784.3	32531.0	32690.9	32760.9	32667.6	32307.7	26712.0	23375.9
65°	35483.8	35447.1	35227.2	35303.8	34850.6	34773.9	34800.6	34830.6	34590.6	28561.7	25035.6
67.5°	38796.5	38743.2	38329.9	37810.0	37156.8	37013.5	37026.8	37106.8	37140.2	30941.2	26978.6
68°	39169.8	39073.2	38613.2	38010.0	37326.8	37160.2	37143.5	37160.2	37176.8	30961.2	26958.6
70°	38216.6	38180.0	37830.0	37100.2	36400.3	36000.4	35653.8	35640.4	35480.4	29378.2	25468.9
72.5°	33914.1	33867.4	33450.8	32934.2	32501.0	31874.4	31424.5	31451.2	31187.9	25965.4	22292.8
75°	27445.2	27441.9	26941.9	26508.7	26515.4	26468.7	26318.7	26582.0	26308.7	22022.8	19013.3
77.5°	19126.6	19193.3	19160.0	18906.7	19263.3	19756.5	20293.1	20799.7	20643.0	17397.0	15160.7
80°	9991.6	10178.2	10838.1	10868.1	11118.1	11598.0	11964.6	12304.5	12327.8	9871.6	8758.5
82.5°	2656.2	2712.9	2936.2	2872.8	2852.8	2949.5	3029.5	3039.5	3046.1	2572.9	2402.9
85°	826.5	849.9	823.2	786.5	729.9	666.5	649.9	529.9	419.9	346.6	303.3
87.5°	586.6	626.6	566.6	533.2	473.3	449.9	403.3	316.6	246.6	173.3	116.6
90°	303.3	309.9	276.6	236.6	220.0	206.6	176.6	126.6	63.3	33.3	30.0
92.5°	153.3	156.6	136.6	116.6	100.0	86.7	66.7	36.7	20.0	10.0	3.3
95°	60.0	63.3	56.7	50.0	40.0	30.0	26.7	20.0	13.3	6.7	3.3
97.5°	20.0	20.0	20.0	16.7	16.7	16.7	16.7	13.3	10.0	6.7	3.3
100°	0.0	0.0	0.0	3.3	6.7	10.0	10.0	10.0	6.7	3.3	3.3
102.5°	0.0	0.0	0.0	0.0	0.0	3.3	6.7	6.7	6.7	3.3	3.3
105°	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3



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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	3.3	3.3	3.3
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
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	3.3
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3
165°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3
170°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3
175°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3
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°	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4	7025.4
2.5°	7065.4	7045.4	7055.4	6972.1	6992.1	6938.8	7052.1	7022.1	7008.8	7055.4
5°	7082.1	7008.8	7068.8	7012.1	7022.1	6945.4	7038.8	7002.1	6998.8	7025.4
7.5°	7088.8	7052.1	7108.8	7015.4	7045.4	7015.4	7085.4	7048.8	7082.1	7105.4
10°	7182.1	7162.1	7155.4	7122.1	7145.4	7078.8	7165.4	7165.4	7182.1	7245.4
12.5°	7318.7	7292.1	7275.4	7215.4	7238.7	7218.7	7288.7	7302.1	7332.0	7358.7
15°	7505.4	7458.7	7442.0	7388.7	7405.4	7402.0	7452.0	7455.4	7522.0	7518.7
17.5°	7745.3	7678.7	7698.7	7658.7	7662.0	7635.3	7608.7	7608.7	7668.7	7682.0
20°	8031.9	7652.0	7152.1	6872.1	6822.1	6858.8	7002.1	7238.7	6942.1	7025.4
22.5°	7515.3	7172.1	7148.7	7085.4	7045.4	6152.3	5922.3	5849.0	6232.2	6892.1
25°	7582.0	7435.4	7392.0	7312.1	6132.3	6122.3	6055.6	5945.6	4859.1	4835.8
27.5°	7935.3	7792.0	7722.0	6405.5	6378.9	6375.5	6275.6	5172.4	4922.5	4955.8
30°	8348.5	8181.9	6928.8	6728.8	6705.5	6652.2	6078.9	5109.1	5105.8	5109.1
32.5°	8825.1	8271.9	7128.8	7118.8	7132.1	6968.8	5385.7	5365.7	5362.4	5395.7
35°	9478.3	7675.3	7628.7	7678.7	7608.7	6025.6	5709.0	5699.0	5702.3	5685.7
37.5°	9045.1	8275.2	8265.2	8265.2	8101.9	6165.6	6102.3	6148.9	6142.3	6118.9
40°	9228.4	9001.8	8941.8	8921.8	6848.8	6652.2	6615.5	6675.5	6685.5	6702.2
42.5°	10118.2	9911.6	9881.6	9645.0	7452.0	7388.7	7275.4	7338.7	7332.0	7352.0
45°	11211.4	11071.4	10941.4	8361.9	8265.2	8185.2	8068.6	8141.9	8161.9	8148.6
47.5°	12484.5	12331.2	11391.3	9195.1	9191.7	9128.4	8998.4	9058.4	9048.4	9048.4
50°	13764.3	13597.6	10348.2	10254.9	10221.5	10121.6	10014.9	10024.9	10028.2	10061.6
52.5°	15194.0	12144.5	11454.7	11268.0	11294.7	11228.0	11124.7	8421.9	11074.7	11104.7
55°	14200.8	12711.1	12671.1	12424.5	12487.8	12401.2	12334.5	8308.5	11014.7	12171.2
57.5°	14040.9	13934.2	13900.9	13647.6	13727.6	12904.4	13521.0	9091.7	7618.7	5565.7
60°	15264.0	15150.7	15130.7	14907.4	14900.7	10254.9	12291.2	6235.6	4872.5	4905.8
62.5°	16450.5	16267.1	16317.1	16053.9	11318.0	6248.9	5509.0	140.0	223.3	236.6
65°	17773.6	17466.9	17516.9	17273.6	11674.6	6588.8	5955.6	73.3	63.3	60.0
67.5°	19046.7	18510.1	18253.5	17996.8	12124.5	6938.8	6205.6	20.0	0.0	0.0
68°	18983.3	18416.8	18153.5	17910.2	12077.9	6928.8	6192.2	20.0	0.0	0.0
70°	17913.5	17403.6	17153.7	16967.0	11531.3	6692.2	5942.3	20.0	0.0	0.0
72.5°	15660.6	15377.3	15217.3	15054.0	10244.9	5985.6	5329.1	20.0	0.0	0.0
75°	13307.7	13227.7	13127.7	12767.8	8538.5	4899.1	4379.2	20.0	0.0	0.0
77.5°	10544.8	10541.5	10298.2	9874.9	6428.9	3596.0	3229.4	16.7	0.0	0.0
80°	5702.3	6215.6	6028.9	5812.3	3646.0	1956.3	1863.0	13.3	0.0	0.0
82.5°	1603.1	1516.4	1456.4	1363.1	766.5	426.6	416.6	13.3	0.0	0.0
85°	223.3	246.6	273.3	309.9	176.6	113.3	100.0	6.7	0.0	0.0
87.5°	126.6	143.3	176.6	183.3	66.7	53.3	16.7	0.0	0.0	0.0
90°	26.7	30.0	33.3	33.3	13.3	13.3	0.0	0.0	0.0	0.0
92.5°	0.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	3.3	3.3	3.3	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°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	3.3	3.3	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)