

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: P579615

Luminaire Tested: **CST-CA8-480-760-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-480-760-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58404 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

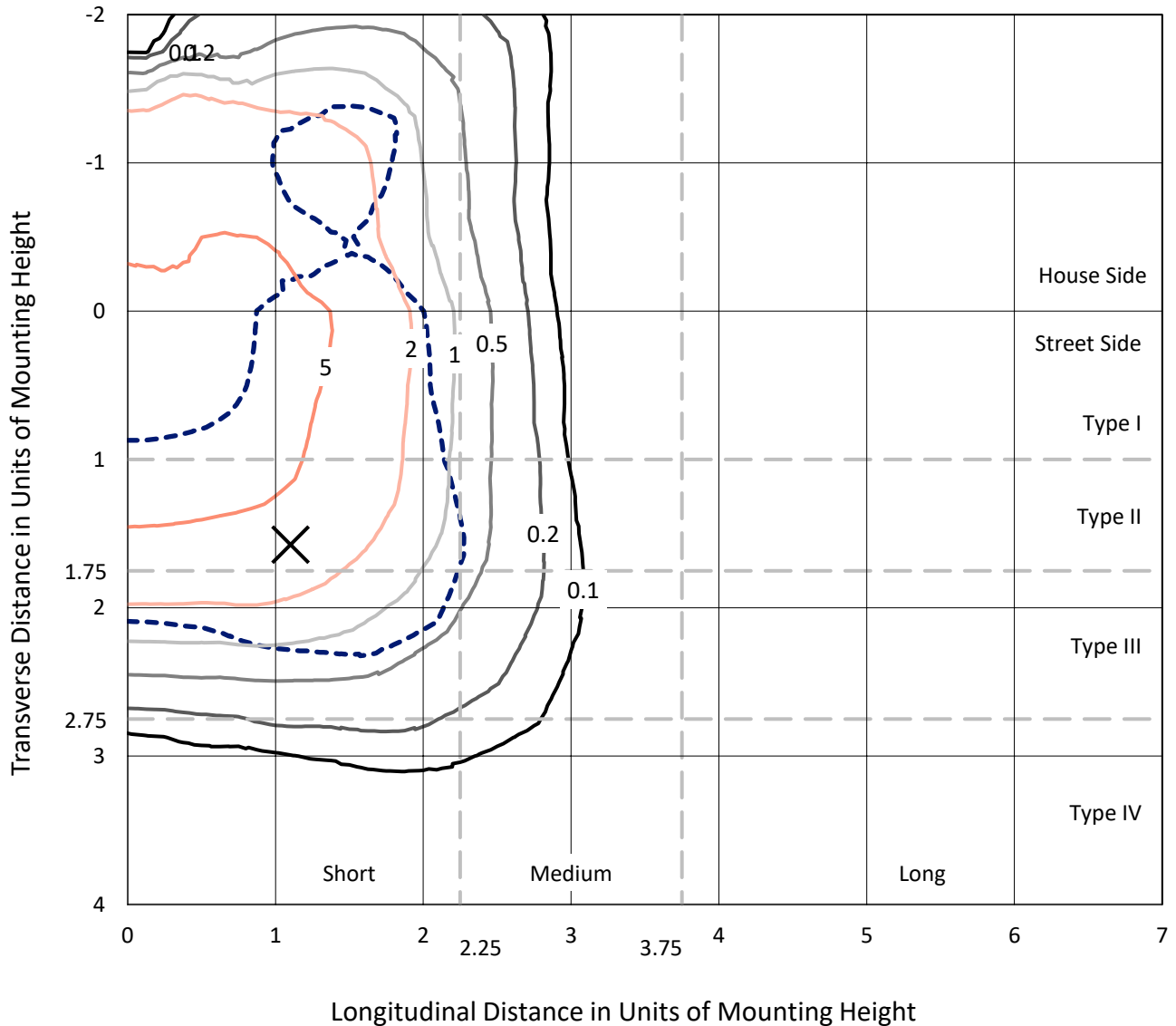
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

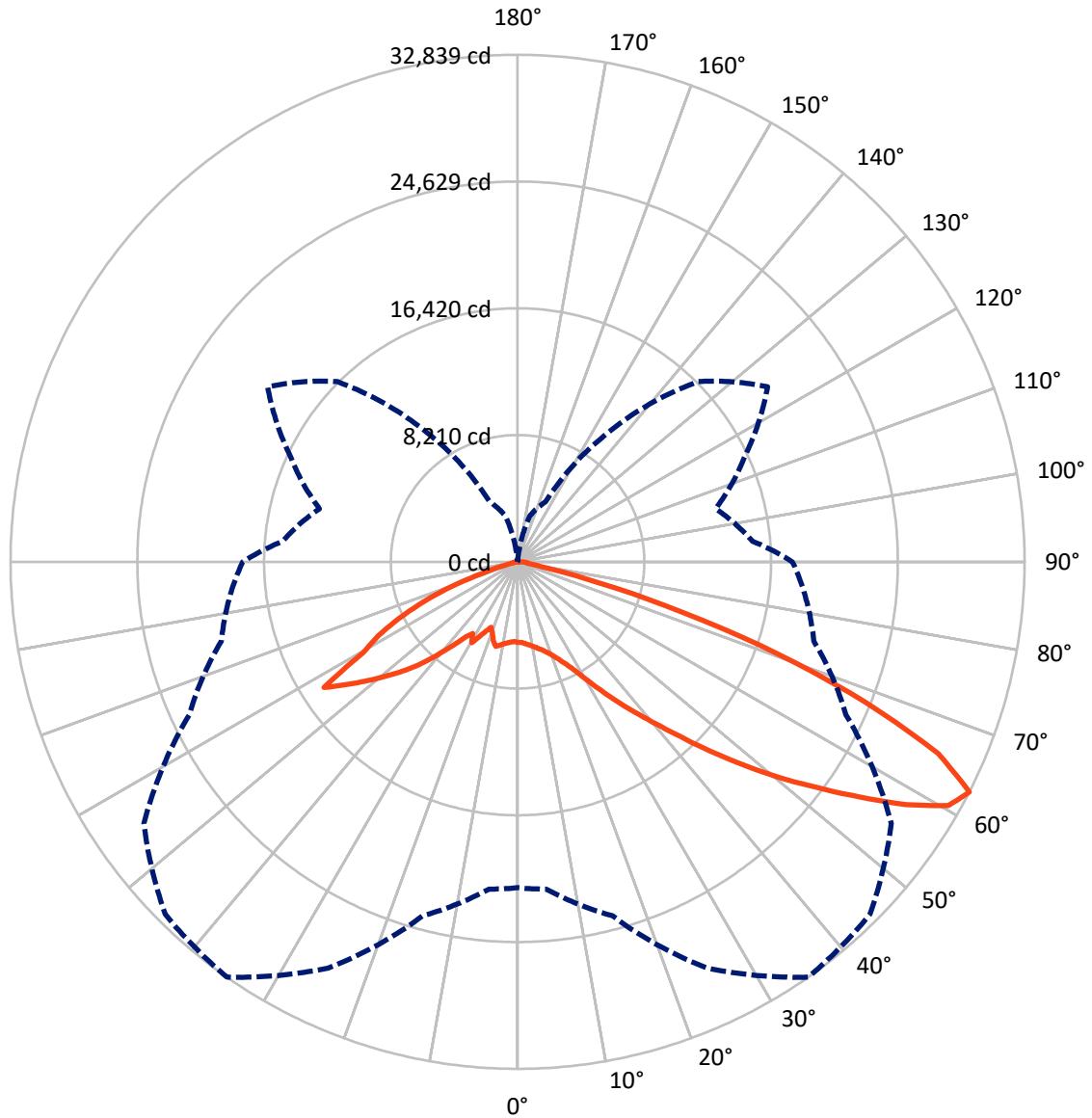
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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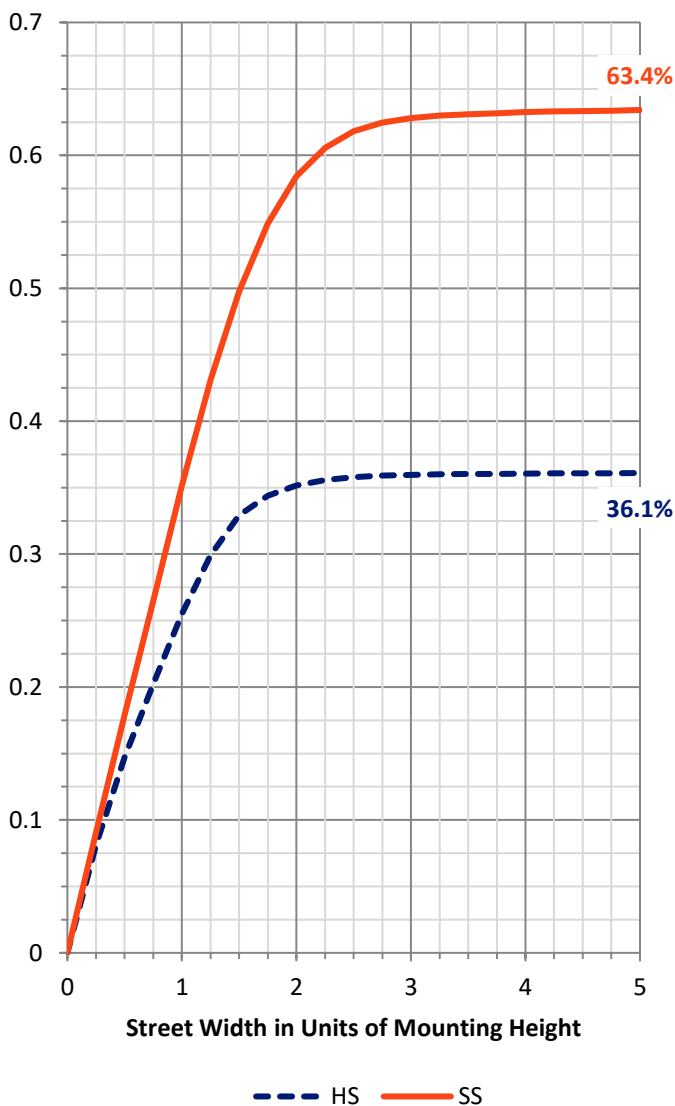
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21199.3	0.0	21199.3
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	37177.0	27.7	37204.7
	% Fixture	63.7	0.0	63.7
Total	Lumens	58376.3	27.7	58404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.8	0.9
10°-20°	1660.5	2.8
20°-30°	3194.5	5.5
30°-40°	6372.7	10.9
40°-50°	11636.1	19.9
50°-60°	17388.4	29.8
60°-70°	14569.9	24.9
70°-80°	2726.6	4.7
80°-90°	313.9	0.5
90°-100°	25.0	0.0
100°-110°	2.7	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°	58376.3	100.0
0°-180°	58404.0	100.0

Coefficient of Utilization

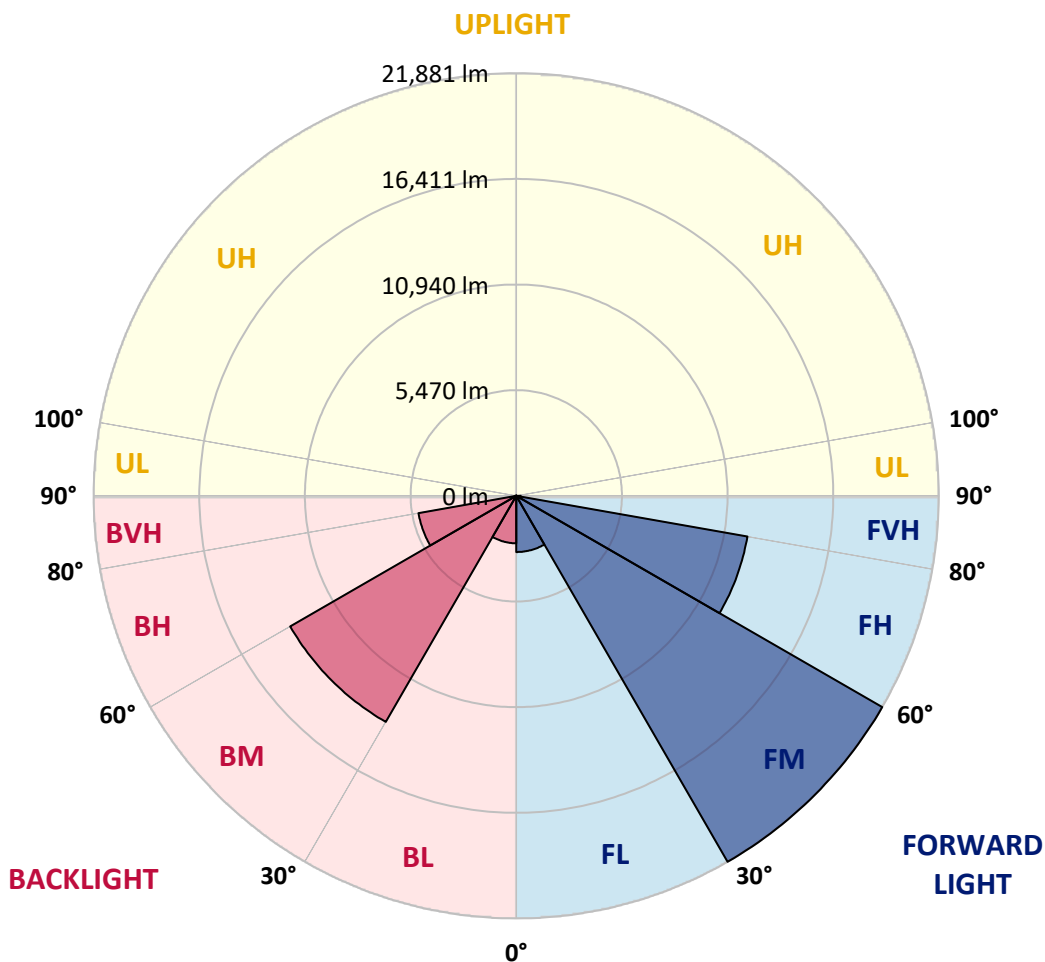


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.1	5.0			
FM (30°-60°)	21880.8	37.5			
FH (60°-80°)	12155.5	20.8			G5
FVH (80°-90°)	228.6	0.4			G3/500
BL (0°-30°)	2456.6	4.2	B3/2500		
BM (30°-60°)	13516.4	23.1	B5		
BH (60°-80°)	5141.0	8.8	B5		G5
BVH (80°-90°)	85.3	0.1			G1/100
UL (90°-100°)	25.0	0.0		U2/50	
UH (100°-180°)	2.8	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°	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8
2.5°	5337.4	5293.7	5300.2	5330.9	5234.5	5274.0	5232.4	5271.8	5258.6	5276.1	5289.3
5°	5414.1	5359.3	5363.7	5398.7	5324.3	5357.1	5315.5	5341.8	5319.9	5344.0	5346.2
7.5°	5519.1	5473.2	5466.6	5501.6	5438.1	5466.6	5425.0	5438.1	5416.3	5444.7	5436.0
10°	5659.3	5617.7	5606.7	5630.8	5580.4	5595.8	5552.0	5569.5	5536.7	5569.5	5554.2
12.5°	5814.7	5760.0	5762.2	5788.4	5738.1	5749.0	5714.0	5733.7	5694.3	5729.3	5718.4
15°	5998.6	5919.8	5935.1	5963.6	5915.4	5948.2	5906.6	5935.1	5897.9	5935.1	5922.0
17.5°	6237.2	6147.5	6158.4	6204.4	6165.0	6217.5	6169.4	6204.4	6186.9	6211.0	6206.6
20°	6539.3	6480.2	6469.3	6526.2	6469.3	6535.0	6508.7	6570.0	6574.4	6598.5	6609.4
22.5°	6942.2	6902.8	6876.5	6915.9	6865.5	6911.5	6948.7	7053.8	7093.2	7156.7	7161.1
25°	7478.5	7476.4	7417.2	7419.4	7355.9	7417.2	7522.3	7686.5	7791.6	7872.6	7842.0
27.5°	8203.2	8216.3	8126.6	8091.5	8017.1	8109.1	8325.8	8529.4	8719.9	8833.7	8833.7
30°	9149.0	9162.1	9030.7	8960.7	8892.8	9052.6	9311.0	9575.9	9847.3	10011.5	9974.3
32.5°	10401.2	10359.6	10171.3	10044.4	9928.3	10112.2	10410.0	10709.9	11079.9	11316.3	11287.9
35°	11920.6	11769.5	11581.2	11344.8	11095.2	11239.7	11519.9	11896.5	12411.0	12765.6	12675.9
37.5°	13685.1	13536.3	13214.4	12807.2	12371.6	12389.1	12610.2	13262.6	13906.2	14195.2	14133.9
40°	15517.5	15401.5	15106.0	14582.7	13794.6	13612.9	13976.3	14762.2	15377.4	15740.8	15638.0
42.5°	17385.0	17266.8	17043.5	16518.0	15473.8	15035.9	15414.6	16270.7	16927.4	17284.3	17166.1
45°	19248.1	19112.3	18935.0	18470.9	17474.8	16833.3	17045.7	17831.6	18431.5	18836.5	18593.5
47.5°	20885.6	20795.9	20675.5	20487.2	19615.9	18906.5	18891.2	19410.1	19823.8	20090.9	19793.2
50°	22310.8	22247.4	22315.2	22275.8	21958.4	21312.5	20916.3	20881.3	21014.8	21209.6	20784.9
52.5°	23589.4	23477.7	23729.5	24042.6	24276.8	24145.5	22862.5	22142.3	21995.6	22061.3	21579.6
55°	24635.9	24583.3	25005.8	25791.8	26875.5	27164.5	24861.3	23368.3	22827.5	22792.5	22245.2
57.5°	25275.1	25349.6	26194.6	27692.1	29679.9	29771.9	27315.5	24679.6	23637.5	23261.0	22630.5
60°	24257.1	24543.9	25986.6	29075.7	32059.7	32116.6	29117.3	24920.5	22626.1	21783.2	21001.7
62.5°	21108.9	21279.7	23733.9	29029.7	32839.0	32283.0	29546.4	23466.8	19865.4	18521.2	17798.8
65°	14869.5	15189.2	17818.5	26118.0	29925.1	29995.2	27105.3	20290.2	15863.4	14376.9	13910.6
67.5°	8980.4	9286.9	12087.0	18854.0	24327.2	25113.1	22610.8	15362.1	11375.4	9497.1	9026.4
70°	2916.1	3248.9	5508.2	11112.7	17895.1	19780.1	17015.0	9998.4	5957.0	4172.7	3667.0
72.5°	1107.8	1208.5	1793.0	4853.6	11145.6	13205.7	10523.8	5015.6	1845.6	1099.0	965.5
75°	720.3	735.6	838.5	1701.1	5374.7	7270.6	5072.5	1469.0	740.0	656.8	608.6
77.5°	619.6	630.5	674.3	847.2	1712.0	2780.4	1455.9	750.9	617.4	547.3	514.5
80°	584.5	588.9	617.4	718.1	801.3	928.3	700.6	628.3	538.6	514.5	490.4
82.5°	553.9	569.2	584.5	652.4	650.2	667.7	562.6	492.6	457.6	481.6	472.9
85°	516.7	525.4	536.4	582.3	529.8	448.8	433.5	339.3	330.6	352.5	330.6
87.5°	363.4	385.3	372.2	391.9	367.8	286.8	243.0	192.7	153.2	127.0	122.6
90°	148.9	151.1	142.3	131.4	116.0	96.3	76.6	48.2	21.9	10.9	4.4
92.5°	116.0	116.0	111.7	100.7	87.6	72.2	54.7	30.6	15.3	6.6	2.2
95°	72.2	74.4	70.1	63.5	54.7	43.8	32.8	17.5	10.9	4.4	2.2
97.5°	46.0	46.0	41.6	37.2	30.6	21.9	15.3	13.1	8.8	4.4	0.0
100°	26.3	26.3	24.1	19.7	15.3	10.9	10.9	8.8	6.6	2.2	0.0
102.5°	15.3	15.3	10.9	8.8	6.6	6.6	6.6	6.6	4.4	2.2	0.0
105°	6.6	6.6	4.4	4.4	2.2	2.2	4.4	4.4	4.4	2.2	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	4.4	2.2	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	2.2	2.2



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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°	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8	5225.8
2.5°	5280.5	5241.1	5247.7	5210.5	5203.9	5166.7	5241.1	5249.9	5228.0	5247.7
5°	5341.8	5293.7	5309.0	5267.4	5260.8	5210.5	5276.1	5271.8	5254.2	5274.0
7.5°	5433.8	5383.4	5392.2	5346.2	5337.4	5282.7	5344.0	5324.3	5306.8	5330.9
10°	5562.9	5506.0	5510.4	5451.3	5457.8	5385.6	5460.0	5425.0	5403.1	5436.0
12.5°	5718.4	5654.9	5657.1	5595.8	5593.6	5523.5	5589.2	5569.5	5536.7	5587.0
15°	5919.8	5847.5	5841.0	5760.0	5738.1	5659.3	5720.6	5683.3	5661.5	5733.7
17.5°	6202.2	6121.2	6097.1	5998.6	5589.2	5352.8	5681.2	5792.8	5657.1	5635.2
20°	6578.8	6510.9	6456.2	6307.3	5619.9	4882.1	4336.9	4341.3	4914.9	5179.8
22.5°	7088.9	7007.9	6905.0	6692.6	5155.7	4573.4	4575.6	4569.0	3921.0	3647.3
25°	7787.2	7688.7	7478.5	6278.8	5473.2	4934.6	4921.5	4280.0	3923.2	3942.9
27.5°	8730.8	8529.4	7299.0	6802.1	6038.0	5403.1	5087.9	4308.5	4352.3	4382.9
30°	9930.5	9120.5	7887.9	7592.4	6716.7	6024.9	4704.7	4812.0	4899.6	4919.3
32.5°	11160.9	9146.8	8829.3	8516.3	7553.0	5481.9	5302.4	5506.0	5598.0	5608.9
35°	11150.0	10267.7	9858.3	9505.8	8328.0	5865.1	5978.9	6292.0	6526.2	6515.3
37.5°	11800.2	11504.6	11016.4	10569.8	7496.1	6607.2	6810.8	7165.5	7450.1	7441.3
40°	13159.7	12818.2	12301.5	11364.5	8299.5	7456.7	7741.3	8122.2	8323.6	8334.5
42.5°	14444.8	14162.4	13634.8	10618.0	9304.4	8479.0	8737.4	8993.5	9118.3	9157.7
45°	15723.3	15521.9	13766.1	11734.5	10519.4	9508.0	9678.8	9726.9	9858.3	9843.0
47.5°	16761.0	16537.7	13236.3	13135.6	11992.8	10484.4	10471.3	10407.8	10456.0	10466.9
50°	17709.0	15018.4	14300.3	14635.3	13538.4	11480.5	11231.0	11101.8	11036.1	11007.6
52.5°	18457.7	15022.8	15294.2	16185.3	15283.3	12562.0	12025.7	11662.2	10210.8	11347.0
55°	19094.8	15642.3	16235.6	17842.5	16787.3	13693.9	12743.7	12095.7	6815.2	5464.4
57.5°	19460.4	16113.0	17168.3	19394.7	18100.9	14952.7	11732.3	10145.1	3853.1	3848.7
60°	18048.3	15268.0	17142.0	20209.1	17722.1	11598.8	4777.0	3997.6	729.0	748.7
62.5°	15278.9	13282.3	16257.5	19762.5	16504.9	10204.2	4284.4	3078.1	24.1	19.7
65°	11837.4	10596.1	13689.5	17382.8	15016.2	8514.1	3194.1	2217.7	6.6	0.0
67.5°	7743.4	7467.6	10101.3	14414.2	12246.8	6596.3	2143.3	1061.8	4.4	0.0
70°	3301.4	3824.7	6399.2	10451.6	9374.5	4538.4	1033.3	383.1	2.2	0.0
72.5°	923.9	1223.8	2848.2	6123.4	5895.7	2386.3	402.8	162.0	2.2	0.0
75°	547.3	470.7	816.6	2443.2	2870.1	838.5	186.1	124.8	2.2	0.0
77.5°	455.4	367.8	468.5	623.9	869.1	302.1	157.6	111.7	0.0	0.0
80°	426.9	326.2	405.0	435.7	429.1	251.8	155.4	111.7	0.0	0.0
82.5°	405.0	284.6	335.0	335.0	359.0	232.1	146.7	109.5	0.0	0.0
85°	304.3	199.2	223.3	289.0	258.3	164.2	107.3	87.6	0.0	0.0
87.5°	116.0	72.2	87.6	91.9	74.4	37.2	8.8	8.8	0.0	0.0
90°	2.2	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)