

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: P579562

Luminaire Tested: **CST-CA8-480-750-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-480-750-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53204 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - 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

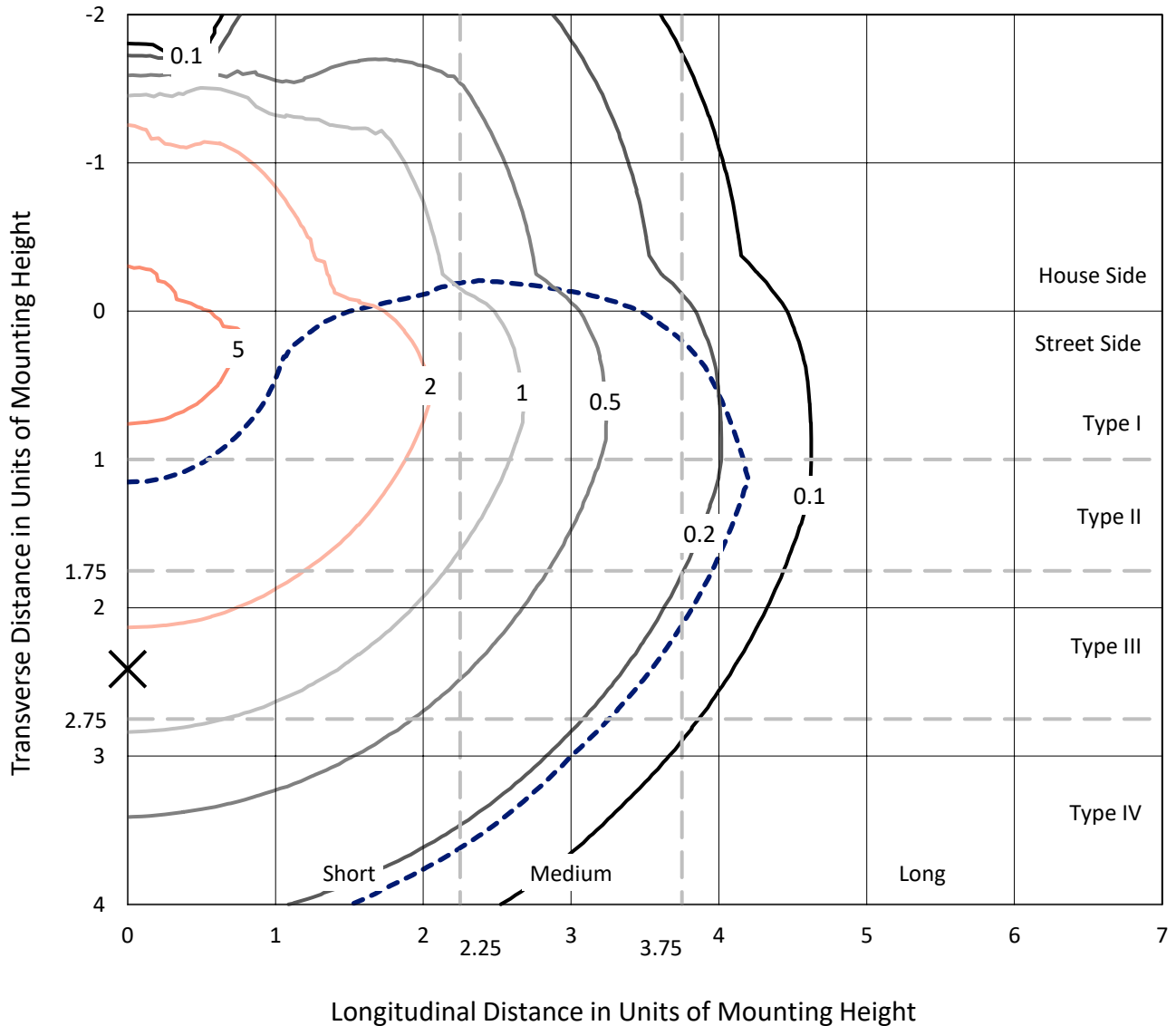




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Iso-Footcandle Lines of Horizontal Illumination

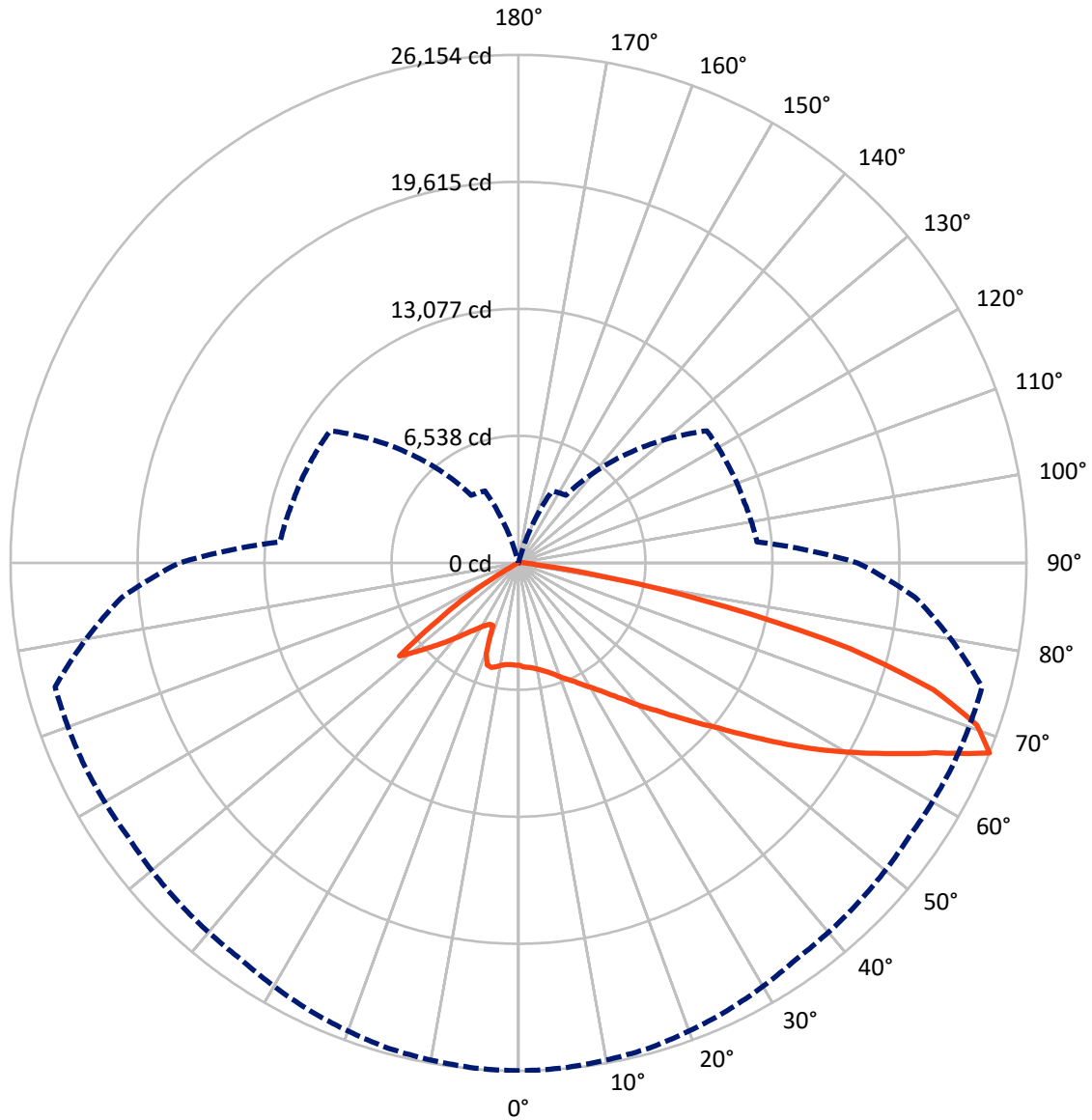
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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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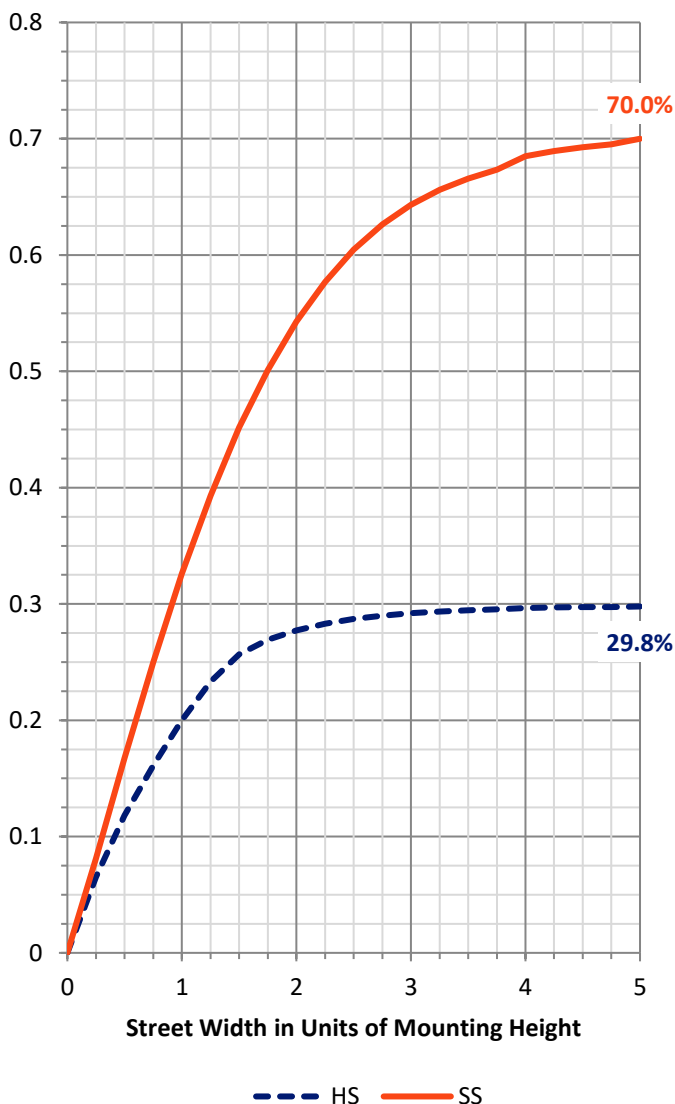
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15881.7	5.3	15887.0
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	37257.1	59.9	37317.0
	% Fixture	70.0	0.1	70.1
Total	Lumens	53138.8	65.2	53204.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.3	1.0
10°-20°	1573.5	3.0
20°-30°	2640.6	5.0
30°-40°	4281.8	8.0
40°-50°	6997.0	13.2
50°-60°	10965.5	20.6
60°-70°	14686.2	27.6
70°-80°	10704.3	20.1
80°-90°	781.7	1.5
90°-100°	50.0	0.1
100°-110°	14.2	0.0
110°-120°	1.0	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°	53138.8	99.9
0°-180°	53204.0	100.0

Coefficient of Utilization

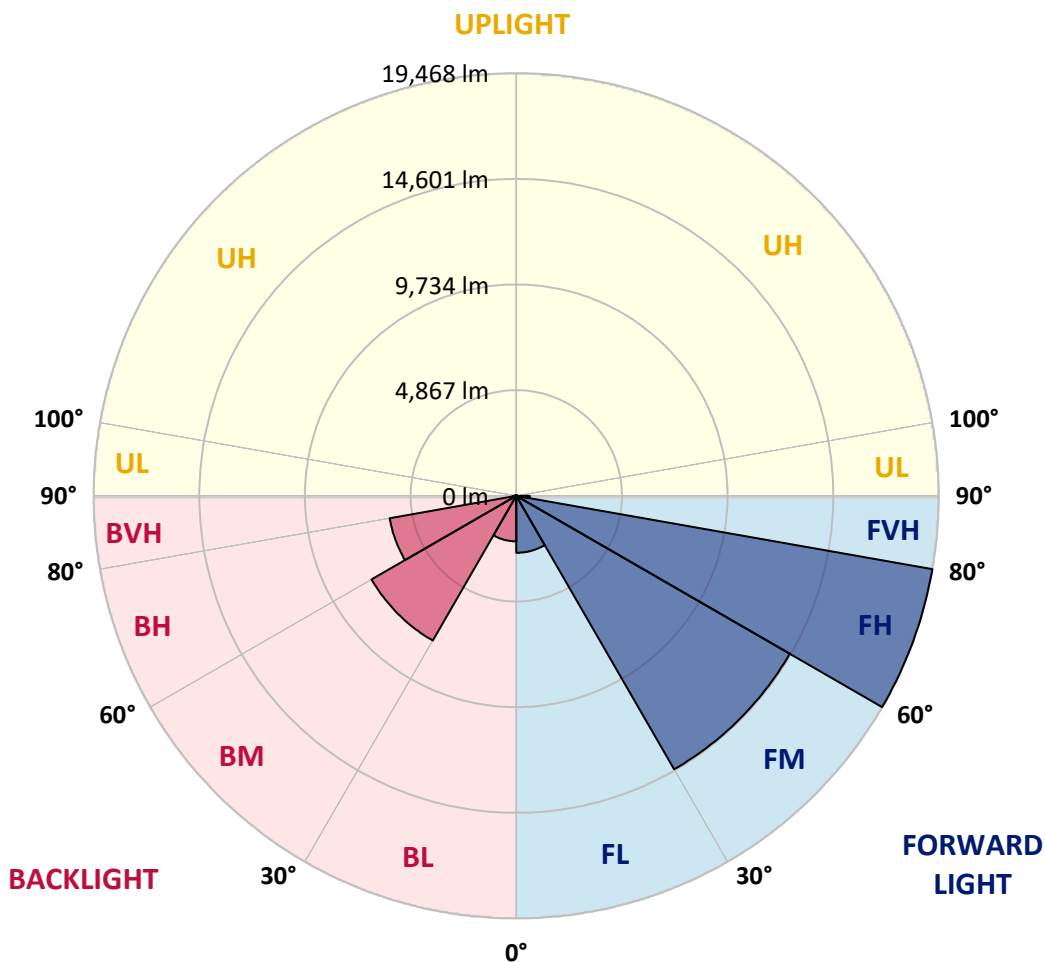


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2624.3	4.9			
FM (30°-60°)	14546.9	27.3			
FH (60°-80°)	19467.7	36.6			G5
FVH (80°-90°)	618.2	1.2			G4/750
BL (0°-30°)	2098.0	3.9	B3/2500		
BM (30°-60°)	7697.4	14.5	B4/8500		
BH (60°-80°)	5922.7	11.1	B5		G5
BVH (80°-90°)	163.5	0.3			G2/225
UL (90°-100°)	50.0	0.1		U2/50	
UH (100°-180°)	15.2	0.0		U2/50	

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°	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9
2.5°	5372.6	5341.2	5343.5	5372.6	5285.3	5314.4	5276.4	5305.5	5285.3	5292.0	5305.5
5°	5406.1	5372.6	5374.8	5410.6	5332.3	5356.9	5305.5	5321.1	5303.2	5312.2	5312.2
7.5°	5473.2	5435.2	5433.0	5455.3	5374.8	5383.7	5336.8	5339.0	5312.2	5330.1	5321.1
10°	5573.9	5542.6	5520.2	5533.6	5462.0	5457.6	5397.2	5399.4	5365.9	5386.0	5370.3
12.5°	5696.9	5654.4	5649.9	5654.4	5576.1	5558.2	5495.6	5500.1	5439.7	5471.0	5453.1
15°	5853.5	5786.4	5786.4	5811.0	5710.3	5696.9	5620.8	5625.3	5562.7	5587.3	5569.4
17.5°	6045.8	5980.9	5969.8	5987.7	5900.4	5882.5	5804.2	5799.8	5730.4	5737.1	5721.5
20°	6294.1	6229.2	6202.4	6247.1	6137.5	6124.1	6030.2	6021.2	5947.4	5927.3	5918.3
22.5°	6524.5	6473.0	6459.6	6508.8	6394.7	6383.6	6294.1	6282.9	6213.6	6184.5	6007.8
25°	6783.9	6772.7	6768.3	6783.9	6676.6	6654.2	6584.9	6569.2	6511.0	6475.3	6260.5
27.5°	7119.4	7115.0	7101.5	7103.8	7005.4	6985.2	6920.4	6909.2	6848.8	6808.5	6533.4
30°	7470.6	7470.6	7441.5	7457.2	7408.0	7376.6	7325.2	7284.9	7246.9	7204.4	6857.7
32.5°	7875.4	7873.2	7846.4	7893.3	7857.5	7857.5	7826.2	7783.7	7716.6	7696.5	7276.0
35°	8396.6	8363.0	8351.8	8427.9	8416.7	8436.8	8425.7	8380.9	8325.0	8278.0	7768.1
37.5°	8973.7	8964.7	8998.3	9045.2	9069.8	9123.5	9090.0	9087.7	9078.8	8960.2	7636.1
40°	9684.9	9646.9	9693.9	9718.5	9700.6	9787.8	9758.7	9783.3	9850.4	8897.6	7627.2
42.5°	10394.0	10360.4	10394.0	10514.7	10487.9	10593.0	10579.6	10675.8	10713.8	9029.6	8246.7
45°	11266.3	11228.2	11255.1	11398.2	11411.7	11539.2	11608.5	11700.2	11718.1	9884.0	8993.8
47.5°	12268.3	12205.7	12257.1	12324.2	12527.8	12648.6	12715.7	12827.5	12941.6	10912.9	9843.7
50°	13373.2	13368.8	13424.7	13541.0	13773.6	13894.4	14010.7	14127.0	14314.9	12060.3	10796.6
52.5°	14777.9	14748.8	14845.0	14954.6	15160.4	15346.0	15484.7	15605.5	15806.8	13221.2	11827.7
55°	16383.8	16283.2	16466.6	16652.3	16739.5	16958.7	17054.9	17155.5	17347.9	14442.4	12429.4
57.5°	18117.3	18092.7	18220.2	18287.3	18475.2	18611.6	18663.0	18772.6	18770.4	15712.8	13453.8
60°	19823.9	19797.1	19946.9	19987.2	20137.0	20260.1	20242.2	20340.6	20376.4	16905.0	14458.0
62.5°	21620.0	21575.2	21713.9	21722.9	21633.4	21832.5	21812.3	21895.1	21863.8	18070.3	15446.7
65°	23583.8	23617.3	23662.1	23478.7	23263.9	23436.2	23431.7	23588.3	23700.1	19698.6	16770.8
67.5°	26153.8	26111.3	25880.9	25438.0	24916.9	24742.4	24556.8	24670.8	24702.1	20508.3	17448.5
70°	25044.4	24950.4	24847.5	24395.7	23767.2	23324.3	23035.8	23156.6	23284.1	19381.0	16388.3
72.5°	22340.2	22107.6	21628.9	21230.8	20868.4	20436.8	20085.6	20295.8	20575.4	17191.3	14511.7
75°	17625.2	17408.3	17059.3	16788.7	16594.1	16589.6	16574.0	16737.2	16697.0	13959.3	11798.6
77.5°	10915.1	11369.2	11691.2	11460.9	11541.4	11375.9	11740.5	11955.2	12149.8	10007.0	8405.5
80°	5039.3	5155.6	5726.0	5578.3	5459.8	5426.2	5448.6	5822.1	5931.7	4491.3	3762.1
82.5°	1149.7	1102.7	1143.0	1060.2	1055.7	1006.5	1013.2	1013.2	977.4	827.6	693.4
85°	581.5	595.0	599.4	574.8	507.7	456.3	422.7	357.9	308.7	263.9	223.7
87.5°	389.2	400.4	407.1	373.5	335.5	293.0	266.2	217.0	172.2	107.4	82.8
90°	266.2	263.9	257.2	239.3	214.7	183.4	147.6	102.9	60.4	22.4	15.7
92.5°	190.1	185.6	183.4	167.8	149.9	125.3	96.2	64.9	33.6	15.7	8.9
95°	125.3	123.0	123.0	114.1	100.7	82.8	64.9	42.5	24.6	13.4	8.9
97.5°	87.2	85.0	85.0	80.5	71.6	60.4	44.7	29.1	20.1	13.4	8.9
100°	60.4	60.4	60.4	55.9	51.4	42.5	33.6	22.4	17.9	13.4	8.9
102.5°	40.3	40.3	42.5	40.3	35.8	29.1	22.4	17.9	15.7	11.2	8.9
105°	26.8	26.8	26.8	26.8	24.6	20.1	17.9	15.7	13.4	11.2	8.9
107.5°	17.9	17.9	17.9	17.9	15.7	13.4	13.4	13.4	11.2	11.2	8.9
110°	11.2	11.2	11.2	13.4	11.2	11.2	11.2	11.2	11.2	8.9	8.9



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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°	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9	5271.9
2.5°	5294.3	5263.0	5278.6	5247.3	5233.9	5204.8	5260.7	5265.2	5260.7	5269.7
5°	5301.0	5265.2	5283.1	5247.3	5240.6	5207.0	5263.0	5263.0	5249.5	5256.3
7.5°	5316.6	5278.6	5292.0	5249.5	5249.5	5209.3	5276.4	5271.9	5260.7	5276.4
10°	5370.3	5325.6	5325.6	5285.3	5289.8	5247.3	5330.1	5330.1	5321.1	5348.0
12.5°	5453.1	5397.2	5399.4	5343.5	5352.4	5318.9	5419.5	5424.0	5424.0	5468.7
15°	5560.4	5475.4	5484.4	5424.0	5441.9	5401.6	5491.1	5486.6	5497.8	5562.7
17.5°	5692.4	5598.5	5520.2	5323.4	5207.0	5211.5	5477.7	5600.7	5457.6	5500.1
20°	5748.3	5292.0	5043.8	4972.2	4956.5	4708.3	4200.5	4278.8	4757.5	4965.5
22.5°	5372.6	5227.2	5202.6	5110.9	4433.1	4245.3	4276.6	4231.8	3762.1	3496.0
25°	5556.0	5459.8	5403.9	4596.4	4444.3	4410.8	4388.4	3963.4	3453.5	3478.1
27.5°	5815.4	5690.2	5019.2	4616.6	4645.6	4594.2	4464.5	3565.3	3549.6	3589.9
30°	6121.9	5806.5	4891.7	4853.6	4887.2	4820.1	3753.2	3717.4	3717.4	3757.7
32.5°	6497.6	5267.4	5191.4	5195.9	5173.5	4413.0	3950.0	3941.1	3967.9	4001.5
35°	6392.5	5618.6	5625.3	5663.3	5611.9	4316.8	4258.7	4225.1	4247.5	4260.9
37.5°	6186.7	6146.5	6146.5	6104.0	4791.0	4654.6	4592.0	4587.5	4585.2	4585.2
40°	6705.6	6667.6	6620.6	6546.8	5012.5	5048.2	4954.3	4943.1	4949.8	4974.4
42.5°	7296.1	7280.5	7276.0	5618.6	5473.2	5500.1	5399.4	5370.3	5370.3	5426.2
45°	7991.7	7971.6	7477.3	6005.5	5980.9	6012.3	5900.4	5831.1	5869.1	5909.4
47.5°	8790.2	8790.2	6620.6	6584.9	6584.9	6602.7	6490.9	6397.0	6435.0	6448.4
50°	9664.8	8298.2	7284.9	7251.4	7282.7	7273.8	7157.4	6285.1	7092.6	7099.3
52.5°	9908.6	8070.0	8014.1	7976.1	8014.1	8007.4	7886.6	5242.8	7671.9	7781.5
55°	8783.5	8790.2	8779.1	8723.1	8763.4	8747.7	8629.2	5723.7	5656.6	5041.5
57.5°	9497.0	9506.0	9501.5	9492.6	9528.4	6922.6	8937.9	5171.3	3158.2	3160.5
60°	10273.2	10228.4	10215.0	10194.9	8640.4	4907.3	3724.1	360.1	1234.7	1216.8
62.5°	10977.7	10962.1	10915.1	10903.9	7331.9	3865.0	3775.6	82.8	64.9	62.6
65°	11957.4	11818.7	11780.7	11662.2	7815.0	4115.5	4030.5	24.6	2.2	0.0
67.5°	12322.0	12040.2	11903.7	11841.1	7951.5	4245.3	4082.0	24.6	2.2	0.0
70°	11633.1	11284.2	11111.9	11042.6	7430.3	3967.9	3806.9	24.6	2.2	0.0
72.5°	10315.7	10058.5	9989.1	9767.7	6551.3	3482.5	3341.6	24.6	0.0	0.0
75°	8461.4	8367.5	8282.5	8047.7	5325.6	2766.8	2641.5	22.4	0.0	0.0
77.5°	6157.6	6019.0	5862.4	5607.4	3594.4	1807.3	1742.4	20.1	0.0	0.0
80°	2775.7	2661.7	2623.7	2225.5	1274.9	588.3	518.9	17.9	0.0	0.0
82.5°	539.0	485.4	460.8	442.9	286.3	158.8	138.7	13.4	0.0	0.0
85°	183.4	203.5	237.1	261.7	161.0	96.2	80.5	8.9	0.0	0.0
87.5°	71.6	96.2	116.3	120.8	60.4	40.3	22.4	4.5	0.0	0.0
90°	13.4	17.9	15.7	11.2	6.7	2.2	0.0	0.0	0.0	0.0
92.5°	6.7	8.9	6.7	6.7	4.5	2.2	0.0	0.0	0.0	0.0
95°	8.9	8.9	8.9	6.7	4.5	2.2	0.0	0.0	0.0	0.0
97.5°	8.9	8.9	8.9	6.7	4.5	2.2	0.0	0.0	0.0	0.0
100°	8.9	8.9	8.9	6.7	4.5	2.2	0.0	0.0	0.0	0.0
102.5°	8.9	8.9	8.9	6.7	4.5	2.2	0.0	0.0	0.0	0.0
105°	8.9	11.2	8.9	6.7	4.5	2.2	0.0	0.0	0.0	0.0
107.5°	8.9	11.2	8.9	6.7	4.5	2.2	0.0	0.0	0.0	0.0
110°	8.9	11.2	8.9	6.7	4.5	2.2	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)