

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: McGRAW-EDISON

Report Number: P579393

Luminaire Tested: **CTN-CA10-630-722-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579393
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: McGRAW-EDISON
Catalog Number: CTN-CA10-630-722-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64054 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

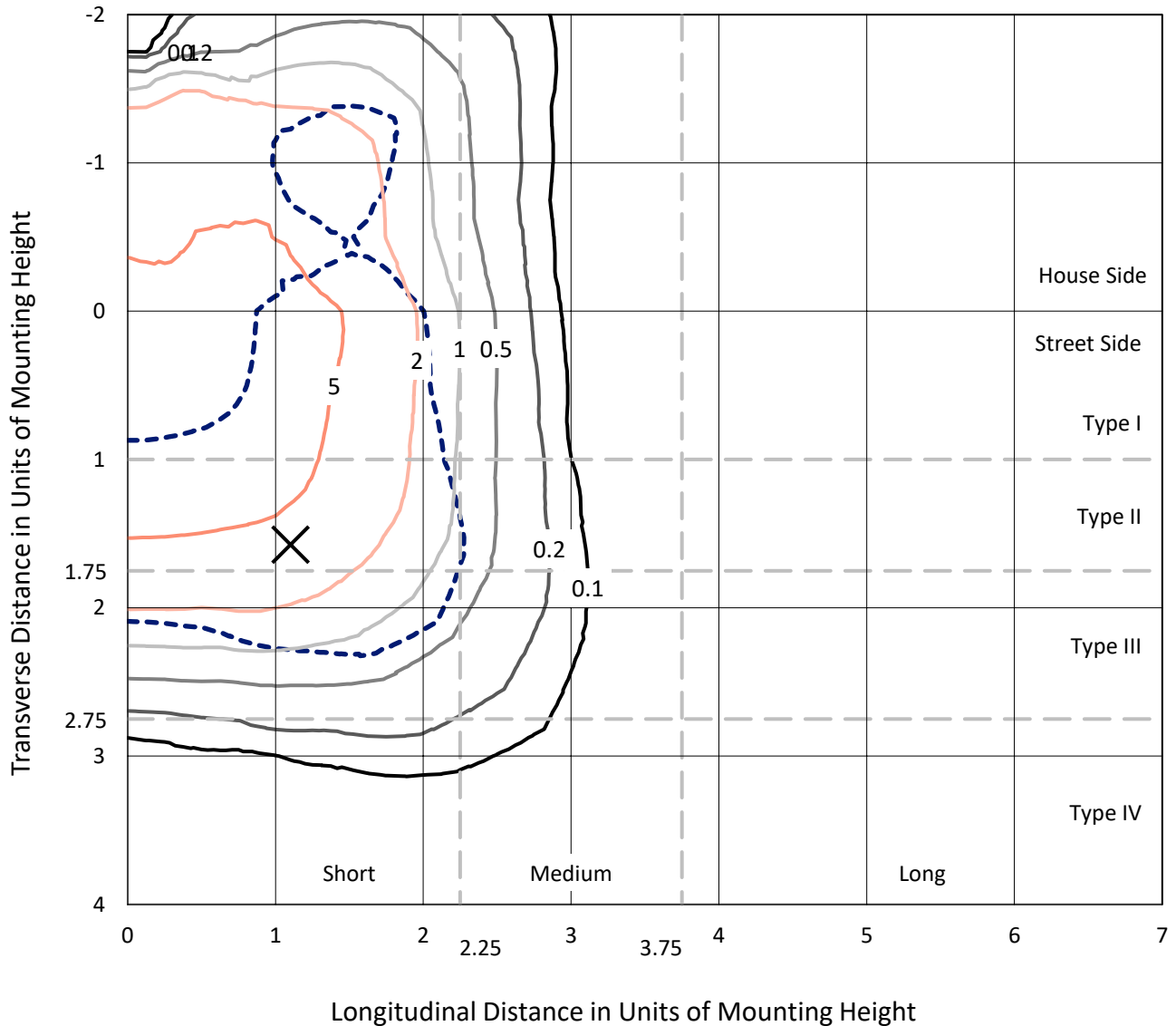
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

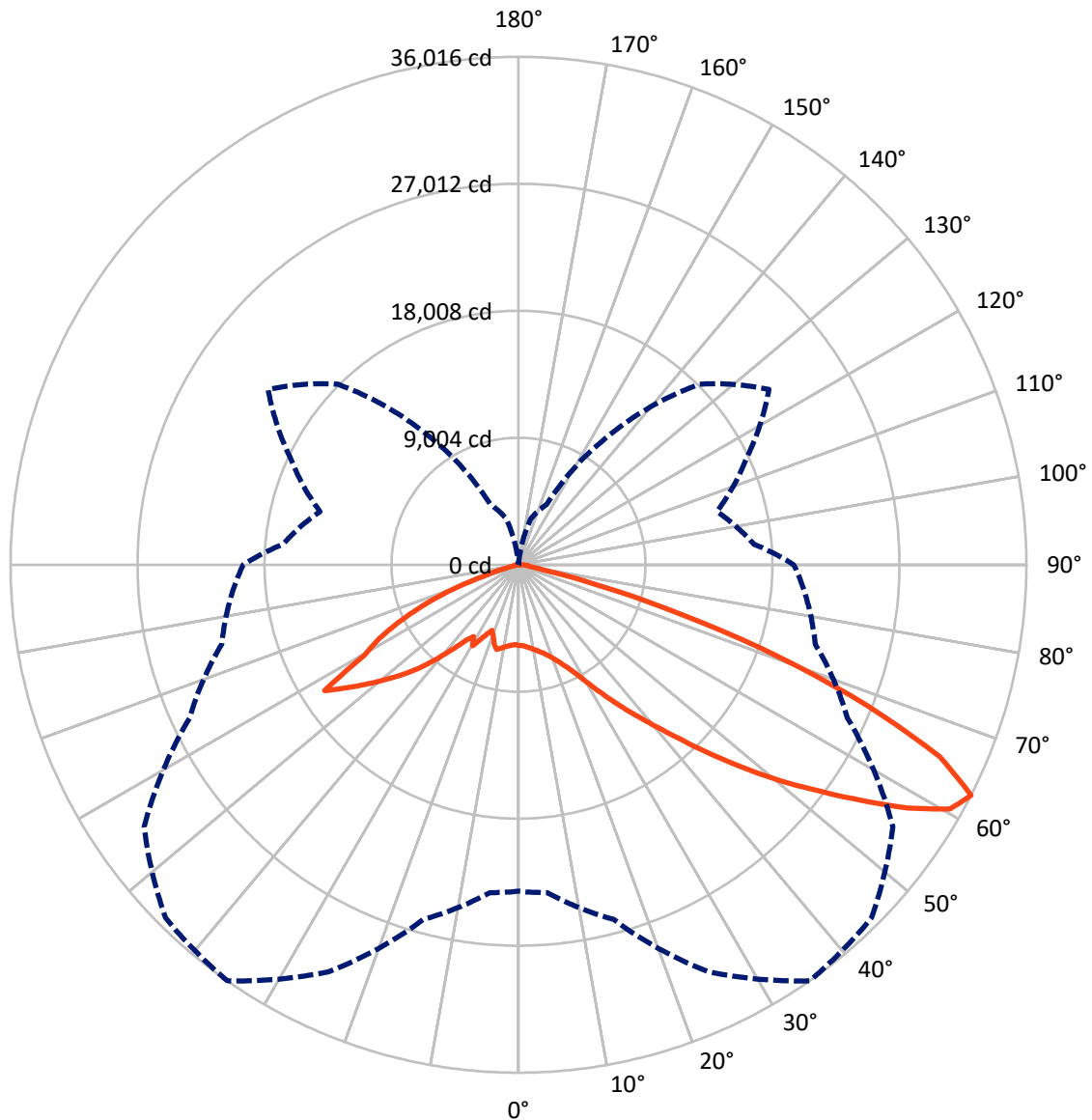
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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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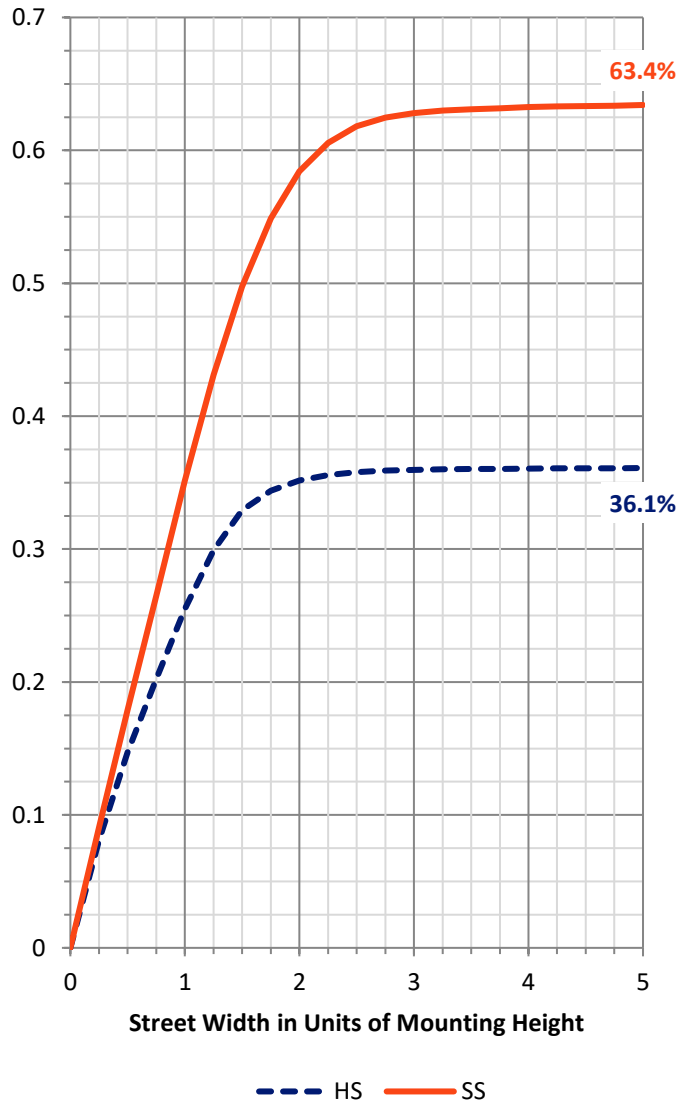
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23250.1	0.0	23250.1
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	40773.5	30.3	40803.9
	% Fixture	63.7	0.0	63.7
Total	Lumens	64023.6	30.4	64054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.5	0.9
10°-20°	1821.1	2.8
20°-30°	3503.5	5.5
30°-40°	6989.2	10.9
40°-50°	12761.8	19.9
50°-60°	19070.6	29.8
60°-70°	15979.4	24.9
70°-80°	2990.4	4.7
80°-90°	344.2	0.5
90°-100°	27.4	0.0
100°-110°	2.9	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°	64023.6	100.0
0°-180°	64054.0	100.0

Coefficient of Utilization

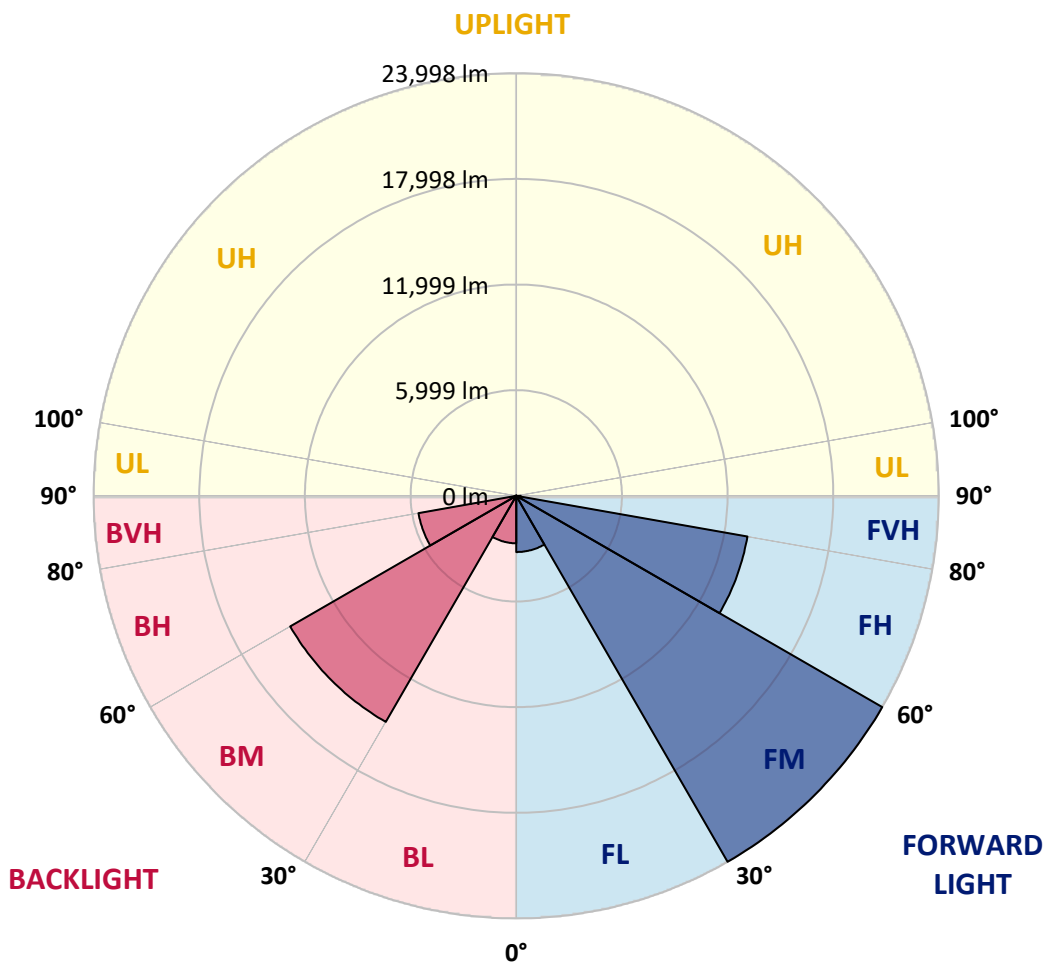


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3193.8	5.0			
FM	(30°-60°)	23997.6	37.5			
FH	(60°-80°)	13331.4	20.8			G5
FVH	(80°-90°)	250.7	0.4			G3/500
BL	(0°-30°)	2694.2	4.2	B4/5000		
BM	(30°-60°)	14824.0	23.1	B5		
BH	(60°-80°)	5638.3	8.8	B5		G5
BVH	(80°-90°)	93.5	0.1			G1/100
UL	(90°-100°)	27.4	0.0		U2/50	
UH	(100°-180°)	3.0	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°	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3
2.5°	5853.8	5805.8	5813.0	5846.6	5740.9	5784.2	5738.5	5781.8	5767.3	5786.6	5801.0
5°	5937.8	5877.8	5882.6	5921.0	5839.4	5875.4	5829.8	5858.6	5834.6	5861.0	5863.4
7.5°	6053.1	6002.6	5995.4	6033.9	5964.2	5995.4	5949.8	5964.2	5940.2	5971.4	5961.8
10°	6206.7	6161.1	6149.1	6175.5	6120.3	6137.1	6089.1	6108.3	6072.3	6108.3	6091.5
12.5°	6377.2	6317.2	6319.6	6348.4	6293.2	6305.2	6266.8	6288.4	6245.2	6283.6	6271.6
15°	6578.9	6492.5	6509.3	6540.5	6487.7	6523.7	6478.1	6509.3	6468.5	6509.3	6494.9
17.5°	6840.6	6742.2	6754.2	6804.6	6761.4	6819.0	6766.2	6804.6	6785.4	6811.8	6807.0
20°	7172.0	7107.1	7095.1	7157.6	7095.1	7167.2	7138.3	7205.6	7210.4	7236.8	7248.8
22.5°	7613.8	7570.5	7541.7	7584.9	7529.7	7580.1	7621.0	7736.2	7779.4	7849.1	7853.9
25°	8202.0	8199.6	8134.8	8137.2	8067.6	8134.8	8250.0	8430.1	8545.4	8634.2	8600.6
27.5°	8996.8	9011.2	8912.7	8874.3	8792.7	8893.5	9131.2	9354.5	9563.4	9688.3	9688.3
30°	10034.0	10048.4	9904.4	9827.5	9753.1	9928.4	10211.7	10502.2	10800.0	10980.0	10939.2
32.5°	11407.4	11361.8	11155.3	11016.1	10888.8	11090.5	11417.0	11746.0	12151.8	12411.1	12379.9
35°	13073.8	12908.1	12701.6	12442.3	12168.6	12327.0	12634.4	13047.4	13611.6	14000.6	13902.1
37.5°	15009.0	14845.8	14492.8	14046.2	13568.4	13587.6	13830.1	14545.6	15251.5	15568.5	15501.2
40°	17018.7	16891.5	16567.3	15993.5	15129.1	14929.8	15328.4	16190.3	16865.0	17263.6	17150.8
42.5°	19066.8	18937.2	18692.2	18116.0	16970.7	16490.5	16905.9	17844.7	18565.0	18956.4	18826.7
45°	21110.1	20961.2	20766.8	20257.7	19165.3	18461.7	18694.6	19556.6	20214.5	20658.7	20392.2
47.5°	22906.1	22807.7	22675.6	22469.1	21513.5	20735.5	20718.7	21287.8	21741.6	22034.5	21708.0
50°	24469.2	24399.6	24474.0	24430.8	24082.6	23374.3	22939.7	22901.3	23047.8	23261.5	22795.7
52.5°	25871.4	25749.0	26025.1	26368.4	26625.3	26481.3	25074.3	24284.3	24123.4	24195.5	23667.2
55°	27019.1	26961.5	27424.9	28286.9	29475.4	29792.3	27266.4	25628.9	25035.8	24997.4	24397.2
57.5°	27720.2	27801.9	28728.7	30371.0	32551.2	32652.0	29958.0	27067.1	25924.2	25511.3	24819.8
60°	26603.7	26918.3	28500.6	31888.5	35161.1	35223.5	31934.1	27331.3	24814.9	23890.5	23033.4
62.5°	23151.0	23338.3	26029.9	31838.0	36015.9	35406.0	32404.7	25737.0	21787.2	20313.0	19520.6
65°	16308.0	16658.6	19542.2	28644.6	32820.1	32896.9	29727.5	22253.0	17398.1	15767.8	15256.3
67.5°	9849.1	10185.3	13256.2	20677.9	26680.6	27542.6	24798.1	16848.2	12475.9	10415.8	9899.6
70°	3198.2	3563.2	6041.1	12187.8	19626.3	21693.6	18661.0	10965.6	6533.3	4576.4	4021.8
72.5°	1214.9	1325.4	1966.5	5323.1	12223.8	14483.2	11541.9	5500.8	2024.1	1205.3	1058.9
75°	789.9	806.8	919.6	1865.6	5894.6	7973.9	5563.3	1611.1	811.6	720.3	667.5
77.5°	679.5	691.5	739.5	929.2	1877.6	3049.3	1596.7	823.6	677.1	600.3	564.2
80°	641.1	645.9	677.1	787.5	878.8	1018.0	768.3	689.1	590.7	564.2	537.8
82.5°	607.5	624.3	641.1	715.5	713.1	732.3	617.1	540.2	501.8	528.2	518.6
85°	566.7	576.3	588.3	638.7	581.1	492.2	475.4	372.2	362.6	386.6	362.6
87.5°	398.6	422.6	408.2	429.8	403.4	314.5	266.5	211.3	168.1	139.3	134.5
90°	163.3	165.7	156.1	144.1	127.3	105.6	84.0	52.8	24.0	12.0	4.8
92.5°	127.3	127.3	122.5	110.4	96.0	79.2	60.0	33.6	16.8	7.2	2.4
95°	79.2	81.6	76.8	69.6	60.0	48.0	36.0	19.2	12.0	4.8	2.4
97.5°	50.4	50.4	45.6	40.8	33.6	24.0	16.8	14.4	9.6	4.8	0.0
100°	28.8	28.8	26.4	21.6	16.8	12.0	12.0	9.6	7.2	2.4	0.0
102.5°	16.8	16.8	12.0	9.6	7.2	7.2	7.2	7.2	4.8	2.4	0.0
105°	7.2	7.2	4.8	4.8	2.4	2.4	4.8	4.8	4.8	2.4	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	4.8	2.4	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	2.4	2.4



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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°	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3	5731.3
2.5°	5791.4	5748.1	5755.3	5714.5	5707.3	5666.5	5748.1	5757.7	5733.7	5755.3
5°	5858.6	5805.8	5822.6	5776.9	5769.7	5714.5	5786.6	5781.8	5762.5	5784.2
7.5°	5959.4	5904.2	5913.8	5863.4	5853.8	5793.8	5861.0	5839.4	5820.2	5846.6
10°	6101.1	6038.7	6043.5	5978.6	5985.8	5906.6	5988.2	5949.8	5925.8	5961.8
12.5°	6271.6	6201.9	6204.3	6137.1	6134.7	6057.9	6129.9	6108.3	6072.3	6127.5
15°	6492.5	6413.2	6406.0	6317.2	6293.2	6206.7	6274.0	6233.2	6209.1	6288.4
17.5°	6802.2	6713.4	6687.0	6578.9	6129.9	5870.6	6230.7	6353.2	6204.3	6180.3
20°	7215.2	7140.8	7080.7	6917.5	6163.5	5354.4	4756.5	4761.3	5390.4	5680.9
22.5°	7774.6	7685.8	7572.9	7340.0	5654.5	5015.8	5018.2	5011.0	4300.3	4000.2
25°	8540.6	8432.5	8202.0	6886.2	6002.6	5412.0	5397.6	4694.1	4302.7	4324.3
27.5°	9575.4	9354.5	8005.1	7460.1	6622.1	5925.8	5580.1	4725.3	4773.3	4806.9
30°	10891.2	10002.8	8651.0	8326.9	7366.5	6607.7	5159.9	5277.5	5373.6	5395.2
32.5°	12240.6	10031.6	9683.5	9340.1	8283.7	6012.3	5815.4	6038.7	6139.5	6151.5
35°	12228.6	11261.0	10812.0	10425.4	9133.6	6432.4	6557.3	6900.6	7157.6	7145.6
37.5°	12941.7	12617.6	12082.1	11592.3	8221.2	7246.4	7469.7	7858.7	8170.8	8161.2
40°	14432.8	14058.2	13491.6	12463.9	9102.4	8178.0	8490.1	8907.9	9128.8	9140.8
42.5°	15842.2	15532.5	14953.8	11645.1	10204.5	9299.3	9582.6	9863.6	10000.4	10043.6
45°	17244.4	17023.5	15097.9	12869.7	11537.1	10427.8	10615.1	10667.9	10812.0	10795.2
47.5°	18382.5	18137.6	14516.8	14406.4	13153.0	11498.7	11484.3	11414.6	11467.5	11479.5
50°	19422.2	16471.3	15683.7	16051.1	14848.2	12591.2	12317.4	12175.8	12103.7	12072.5
52.5°	20243.3	16476.1	16773.8	17751.0	16761.8	13777.3	13189.0	12790.4	11198.5	12444.7
55°	20942.0	17155.6	17806.3	19568.6	18411.3	15018.6	13976.6	13265.9	7474.5	5993.0
57.5°	21343.0	17671.8	18829.1	21271.0	19852.0	16399.2	12867.3	11126.5	4225.9	4221.1
60°	19794.3	16745.0	18800.3	22164.2	19436.6	12720.8	5239.1	4384.3	799.6	821.2
62.5°	16757.0	14567.2	17830.3	21674.4	18101.6	11191.3	4698.9	3375.9	26.4	21.6
65°	12982.5	11621.1	15013.8	19064.4	16468.9	9337.7	3503.1	2432.3	7.2	0.0
67.5°	8492.5	8190.0	11078.5	15808.6	13431.5	7234.4	2350.6	1164.5	4.8	0.0
70°	3620.8	4194.7	7018.3	11462.7	10281.3	4977.4	1133.3	420.2	2.4	0.0
72.5°	1013.2	1342.2	3123.8	6715.8	6466.1	2617.2	441.8	177.7	2.4	0.0
75°	600.3	516.2	895.6	2679.6	3147.8	919.6	204.1	136.9	2.4	0.0
77.5°	499.4	403.4	513.8	684.3	953.2	331.3	172.9	122.5	0.0	0.0
80°	468.2	357.8	444.2	477.8	470.6	276.1	170.5	122.5	0.0	0.0
82.5°	444.2	312.1	367.4	367.4	393.8	254.5	160.9	120.1	0.0	0.0
85°	333.7	218.5	244.9	316.9	283.3	180.1	117.7	96.0	0.0	0.0
87.5°	127.3	79.2	96.0	100.8	81.6	40.8	9.6	9.6	0.0	0.0
90°	2.4	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)