

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: P579396

Luminaire Tested: **CTN-CA10-760-722-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-722-U-T5-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: 70092 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

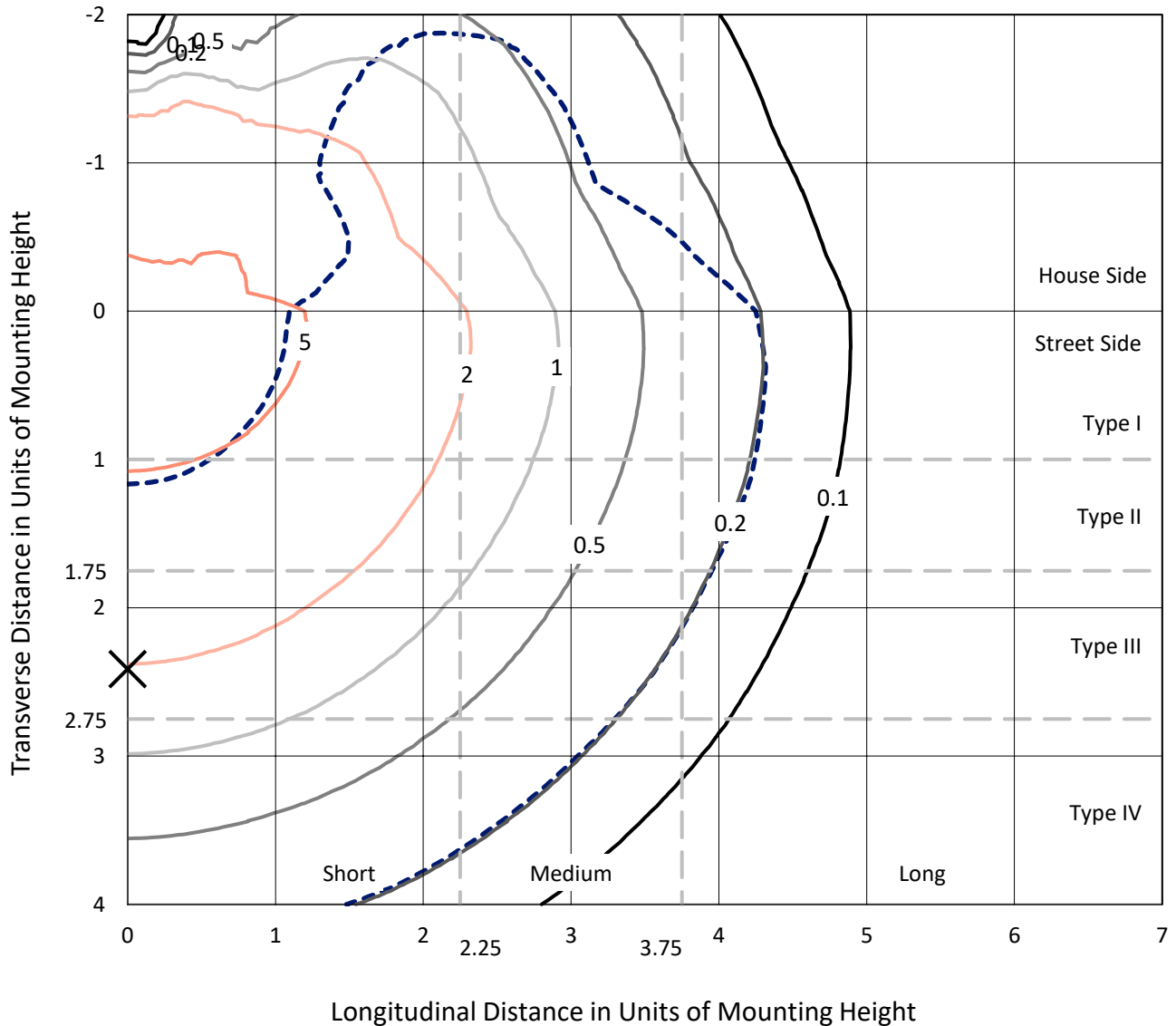
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

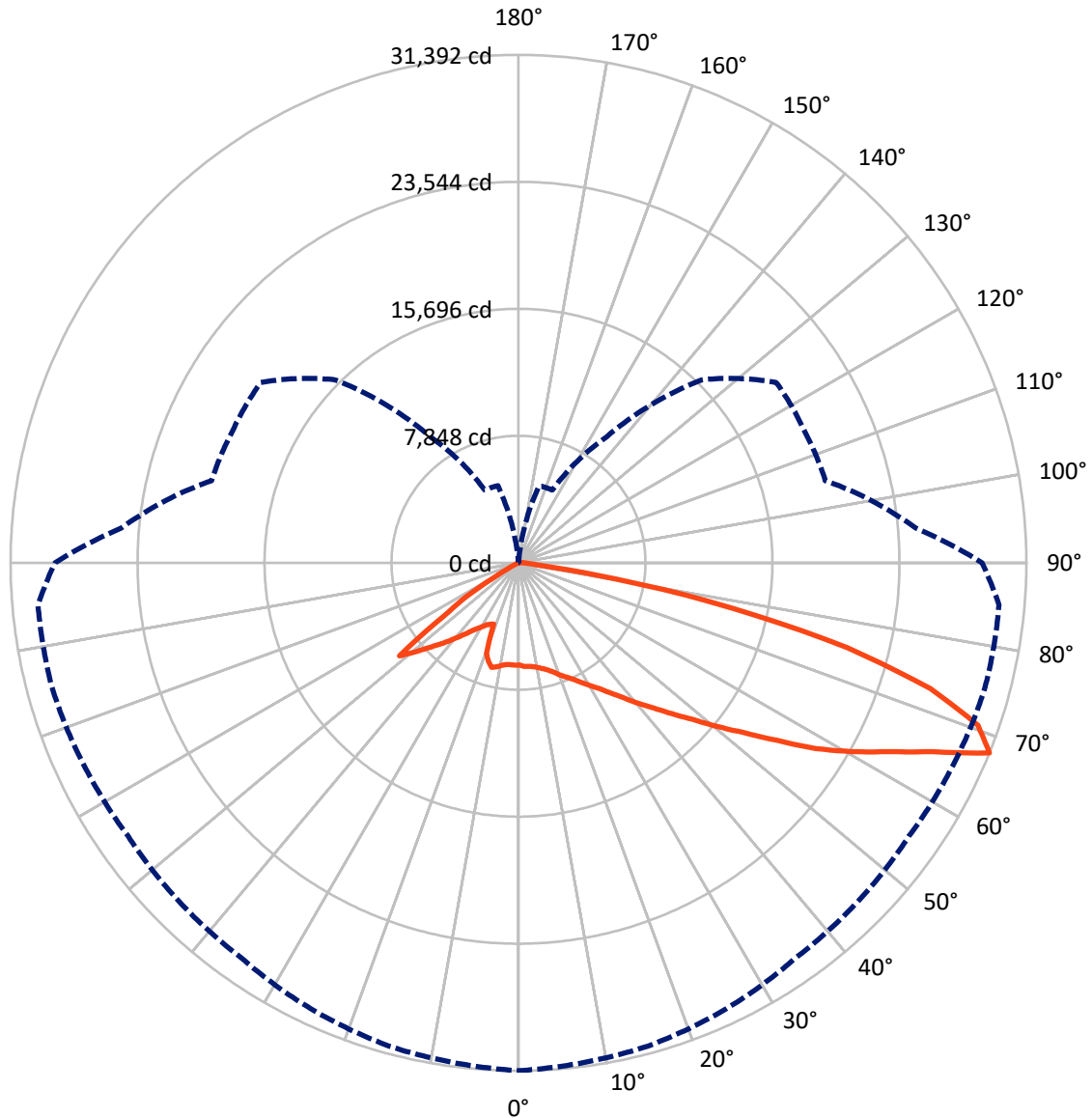
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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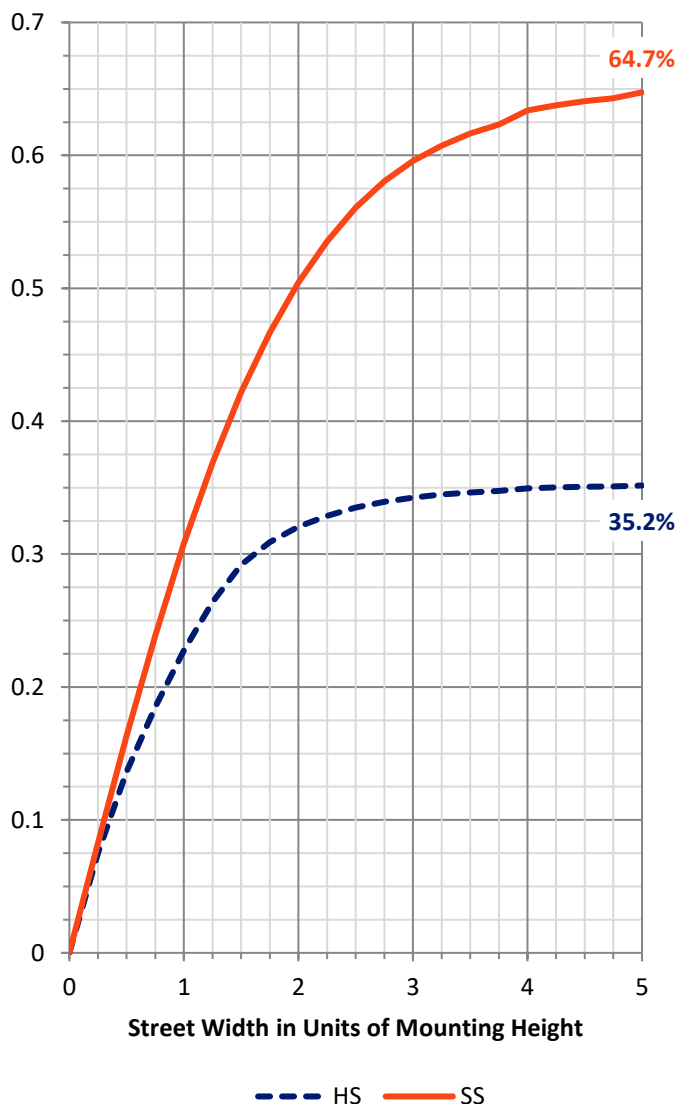
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24672.3	1.5	24673.7
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	45368.8	49.4	45418.3
	% Fixture	64.7	0.1	64.8
Total	Lumens	70041.1	50.9	70092.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.6	0.9
10°-20°	1887.7	2.7
20°-30°	3272.9	4.7
30°-40°	5370.3	7.7
40°-50°	8957.7	12.8
50°-60°	14497.0	20.7
60°-70°	20010.5	28.5
70°-80°	14436.7	20.6
80°-90°	1000.6	1.4
90°-100°	43.4	0.1
100°-110°	7.3	0.0
110°-120°	0.3	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°	70041.1	99.9
0°-180°	70092.0	100.0

Coefficient of Utilization

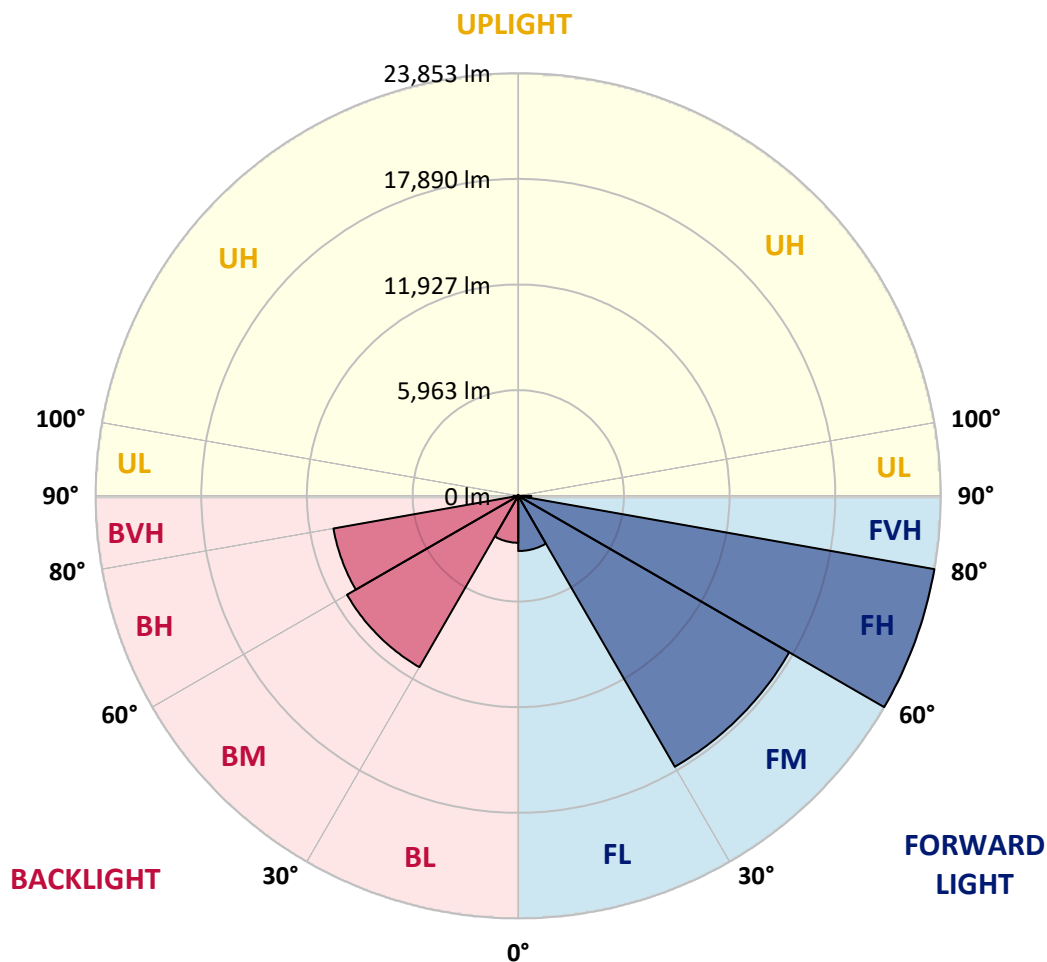


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3116.9	4.4			
FM (30°-60°)	17661.4	25.2			
FH (60°-80°)	23853.2	34.0			G5
FVH (80°-90°)	737.3	1.1			G4/750
BL (0°-30°)	2651.4	3.8	B4/5000		
BM (30°-60°)	11163.6	15.9	B5		
BH (60°-80°)	10594.0	15.1	B5		G5
BVH (80°-90°)	263.3	0.4			G3/500
UL (90°-100°)	43.4	0.1		U2/50	
UH (100°-180°)	7.5	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°	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5
2.5°	6413.1	6375.5	6378.2	6415.8	6313.8	6351.4	6308.5	6346.0	6327.2	6340.7	6356.8
5°	6431.9	6386.3	6391.6	6437.3	6356.8	6386.3	6335.3	6356.8	6340.7	6356.8	6359.4
7.5°	6480.2	6434.6	6437.3	6472.1	6389.0	6410.4	6362.1	6372.9	6346.0	6375.5	6367.5
10°	6582.2	6539.2	6523.1	6552.6	6480.2	6482.9	6426.5	6437.3	6397.0	6437.3	6421.2
12.5°	6719.0	6660.0	6665.3	6681.4	6592.9	6598.3	6531.2	6547.3	6480.2	6536.5	6517.8
15°	6885.4	6812.9	6821.0	6847.8	6761.9	6753.9	6692.2	6692.2	6633.1	6676.1	6657.3
17.5°	7116.1	7035.6	7030.3	7049.1	6979.3	6979.3	6909.5	6901.5	6842.4	6877.3	6872.0
20°	7416.7	7325.4	7309.3	7344.2	7255.7	7266.4	7177.9	7169.8	7105.4	7126.9	7129.6
22.5°	7687.7	7615.2	7612.6	7666.2	7561.6	7575.0	7494.5	7473.0	7419.4	7448.9	7456.9
25°	7999.0	7988.2	7980.2	7999.0	7894.3	7894.3	7838.0	7819.2	7784.3	7805.8	7827.2
27.5°	8390.7	8385.3	8363.9	8366.6	8278.0	8291.4	8229.7	8219.0	8202.9	8200.2	8189.5
30°	8822.7	8798.6	8769.1	8787.8	8747.6	8761.0	8707.3	8672.5	8667.1	8669.8	8653.7
32.5°	9303.0	9270.8	9252.1	9284.3	9300.4	9337.9	9335.2	9238.6	9238.6	9278.9	9206.4
35°	9898.7	9847.8	9863.9	9906.8	9939.0	10035.6	10019.5	9952.4	9973.9	9992.7	9906.8
37.5°	10599.1	10564.2	10636.6	10717.1	10719.8	10856.7	10824.5	10840.6	10837.9	10813.7	10757.4
40°	11439.0	11382.6	11457.7	11519.5	11481.9	11645.6	11640.2	11712.7	11761.0	11844.1	11811.9
42.5°	12273.5	12230.5	12303.0	12437.1	12415.7	12603.5	12630.3	12743.0	12810.1	12938.9	12863.8
45°	13301.2	13277.0	13344.1	13448.8	13521.2	13770.8	13870.0	13918.3	14087.4	14243.0	14068.6
47.5°	14452.3	14484.5	14473.8	14664.3	14825.3	15128.5	15168.8	15324.4	15472.0	15643.7	15474.7
50°	15885.2	15831.5	15879.8	16062.3	16325.3	16545.3	16751.9	16974.6	17119.5	17296.6	16985.4
52.5°	17428.1	17473.7	17581.1	17862.8	18056.0	18316.3	18504.1	18769.8	18912.0	19064.9	18659.7
55°	19373.5	19411.1	19529.1	19818.9	19955.8	20251.0	20379.8	20645.4	20782.2	20849.3	20331.5
57.5°	21654.3	21528.2	21624.8	21775.1	21987.1	22306.4	22341.3	22590.8	22590.8	22676.7	22016.6
60°	23691.0	23605.1	23707.1	23921.7	24004.9	24294.7	24265.2	24469.1	24522.8	24458.4	23669.5
62.5°	25698.1	25714.2	25845.7	25915.4	25883.2	26055.0	26124.7	26339.4	26250.8	26272.3	25362.7
65°	28134.5	28172.1	28158.7	28029.9	27740.1	28078.2	28059.4	28400.2	28421.6	28614.8	27557.6
67.5°	31392.1	31225.7	30922.5	30404.6	29830.4	29631.8	29457.4	29626.4	29843.8	29808.9	28649.7
70°	30125.5	29854.5	29696.2	29245.4	28478.0	28080.9	27718.6	27748.1	28064.8	28094.3	26908.2
72.5°	26631.9	26495.0	25885.9	25491.5	24965.5	24659.6	24222.3	24321.5	24734.8	24804.5	23860.0
75°	21007.6	20881.5	20331.5	20202.7	19942.4	20092.6	19985.3	20025.6	20358.3	20052.4	19486.2
77.5°	13596.3	13625.9	13540.0	13832.5	13821.7	13829.8	14221.6	14261.8	14586.5	14398.6	13851.3
80°	6096.5	6185.0	6394.3	6818.3	6560.7	6700.2	6850.5	6804.9	7132.2	6391.6	6657.3
82.5°	1234.3	1277.3	1204.8	1258.5	1175.3	1218.2	1279.9	1186.0	1175.3	1089.4	1011.6
85°	635.9	644.0	641.3	627.9	552.8	509.8	491.0	413.2	373.0	364.9	338.1
87.5°	413.2	418.6	405.2	402.5	354.2	324.7	289.8	244.2	203.9	142.2	118.1
90°	252.2	252.2	238.8	225.4	201.2	179.8	144.9	104.6	61.7	24.1	13.4
92.5°	169.0	169.0	163.7	155.6	139.5	120.7	93.9	61.7	29.5	10.7	5.4
95°	107.3	107.3	104.6	102.0	91.2	77.8	59.0	37.6	18.8	8.0	2.7
97.5°	69.8	69.8	69.8	67.1	61.7	53.7	40.2	24.1	13.4	5.4	2.7
100°	42.9	45.6	42.9	42.9	40.2	34.9	26.8	16.1	10.7	5.4	2.7
102.5°	24.1	24.1	26.8	26.8	24.1	21.5	16.1	13.4	8.0	5.4	2.7
105°	10.7	10.7	13.4	13.4	13.4	10.7	10.7	8.0	5.4	5.4	2.7
107.5°	2.7	2.7	2.7	5.4	8.0	8.0	8.0	8.0	5.4	2.7	2.7
110°	0.0	0.0	0.0	2.7	2.7	5.4	5.4	5.4	5.4	2.7	2.7



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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°	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5	6316.5
2.5°	6340.7	6308.5	6332.6	6292.4	6281.6	6246.7	6313.8	6324.6	6319.2	6329.9
5°	6346.0	6305.8	6335.3	6295.0	6292.4	6254.8	6324.6	6327.2	6308.5	6316.5
7.5°	6362.1	6324.6	6346.0	6300.4	6305.8	6260.2	6340.7	6338.0	6327.2	6346.0
10°	6421.2	6378.2	6386.3	6338.0	6351.4	6303.1	6402.4	6407.7	6397.0	6431.9
12.5°	6523.1	6464.1	6482.9	6426.5	6437.3	6389.0	6509.7	6517.8	6517.8	6574.1
15°	6662.7	6600.9	6641.2	6568.7	6571.4	6499.0	6590.2	6590.2	6600.9	6678.8
17.5°	6866.6	6791.5	6845.1	6778.0	6359.4	6201.1	6512.4	6702.9	6386.3	6359.4
20°	7118.8	7083.9	7113.5	7003.4	6324.6	5600.1	5036.6	5007.1	5632.3	5943.5
22.5°	7427.4	7392.5	7405.9	7266.4	5645.7	5135.9	5127.8	5074.1	4293.3	4078.6
25°	7789.7	7770.9	7741.4	6571.4	5836.2	5347.8	5283.4	4583.1	4135.0	4175.2
27.5°	8178.7	8122.4	7126.9	6826.3	6128.7	5559.8	5194.9	4279.9	4263.8	4301.3
30°	8613.4	8315.6	7295.9	7194.0	6469.5	5822.8	4521.4	4467.7	4467.7	4526.7
32.5°	9166.2	7765.5	7765.5	7711.8	6890.7	5111.7	4760.2	4728.0	4765.6	4789.7
35°	9083.0	8353.1	8439.0	8414.9	7462.3	5205.6	5143.9	5090.2	5098.3	5098.3
37.5°	9109.8	9139.4	9241.3	9136.7	6509.7	5613.5	5514.2	5503.5	5511.5	5530.3
40°	9952.4	9968.5	10006.1	9775.3	6995.4	6088.4	5951.6	5924.8	5951.6	5991.8
42.5°	10859.4	10905.0	10947.9	8889.8	7674.3	6627.8	6490.9	6439.9	6488.2	6531.2
45°	11932.7	12002.5	11345.0	9676.0	8441.7	7242.3	7097.4	7035.6	7065.2	7102.7
47.5°	13140.2	13250.2	10698.4	10676.9	9343.3	7969.4	7803.1	7685.0	7730.6	7727.9
50°	14503.3	12662.5	11820.0	11806.6	10349.5	8779.8	8608.1	8500.7	8535.6	8508.8
52.5°	15976.4	13008.7	13035.5	13032.8	11401.4	9651.9	9493.6	9359.4	9083.0	9337.9
55°	17484.5	14205.5	14307.4	14291.3	12504.2	10553.5	10384.4	10258.3	6702.9	5661.8
57.5°	18984.4	15455.9	15488.1	15525.6	13647.3	11422.9	10679.6	9810.2	3823.7	3804.9
60°	20465.6	16647.3	16711.7	16733.1	14264.5	9456.0	4365.7	4446.2	1156.5	1381.9
62.5°	22000.5	17822.6	17881.6	17862.8	14879.0	8793.2	4585.8	4494.5	107.3	99.3
65°	23959.3	19295.7	19212.5	19150.8	15847.6	9383.5	4926.6	4902.4	34.9	24.1
67.5°	24646.2	19631.1	19462.1	19440.6	15987.2	9509.7	4953.4	4934.6	34.9	24.1
70°	23089.9	18356.5	18066.7	18074.8	14876.3	8895.2	4620.7	4593.8	32.2	24.1
72.5°	20221.4	16212.6	16091.8	15453.2	12882.6	7824.5	4097.4	3995.5	32.2	21.5
75°	16601.6	13097.2	12828.9	12112.5	10252.9	6219.9	3217.3	3085.8	29.5	18.8
77.5°	11524.8	9185.0	8672.5	7942.6	6858.5	4124.2	2162.7	1993.7	26.8	18.8
80°	5224.4	3770.1	3788.8	2903.3	2326.4	1398.0	686.9	622.5	24.1	16.1
82.5°	909.6	670.8	630.6	609.1	507.1	343.5	209.3	179.8	21.5	10.7
85°	316.6	254.9	281.7	332.7	295.2	206.6	128.8	123.4	13.4	5.4
87.5°	107.3	112.7	131.5	158.3	139.5	80.5	48.3	34.9	2.7	0.0
90°	10.7	13.4	13.4	13.4	8.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.7	2.7	2.7	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)