

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: P588549

Luminaire Tested: **GAT-CA6-LED-90-730-U-55-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-90-730-U-55-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8611 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U3 - G3

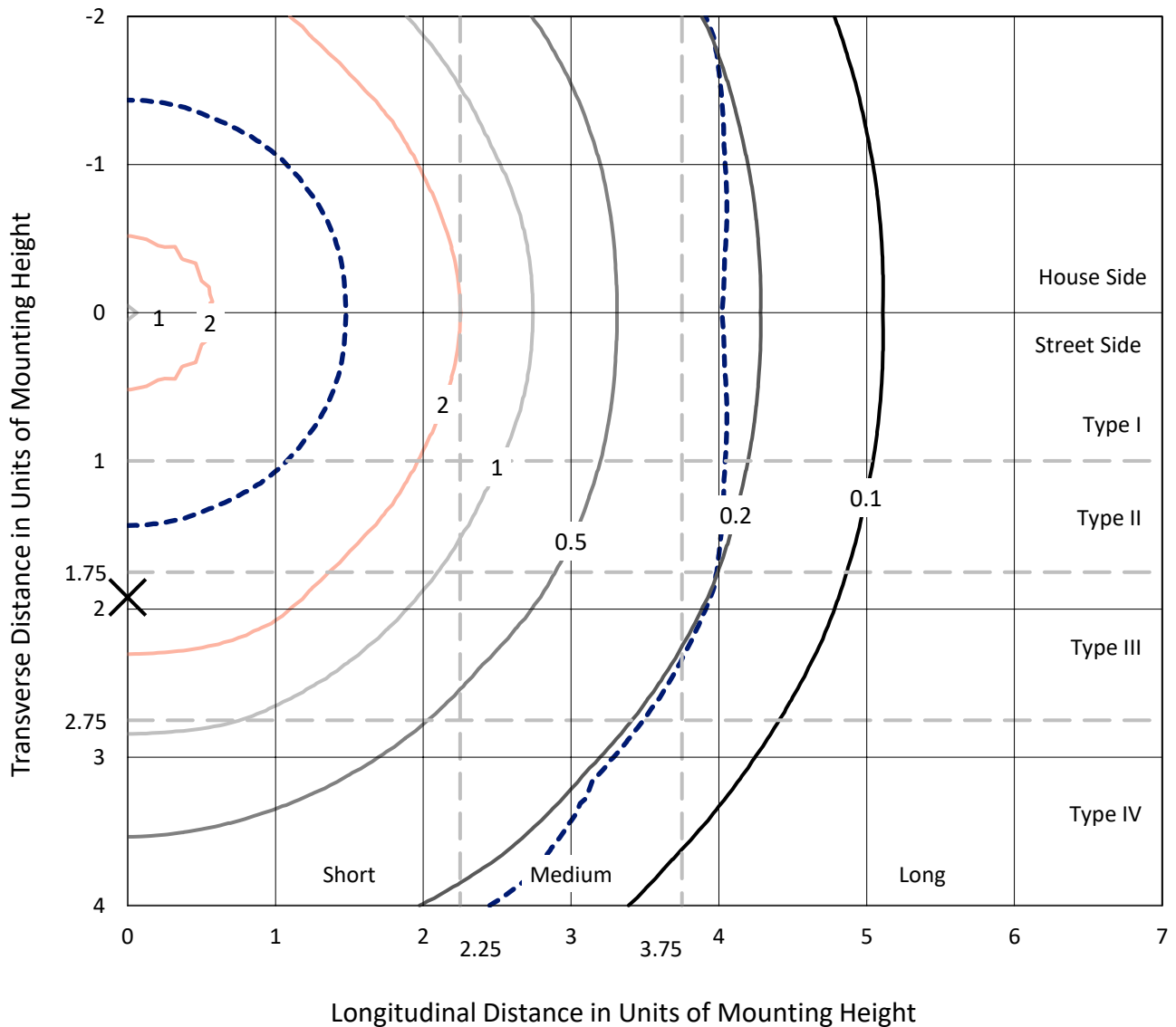
Input Watts (W): 93.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

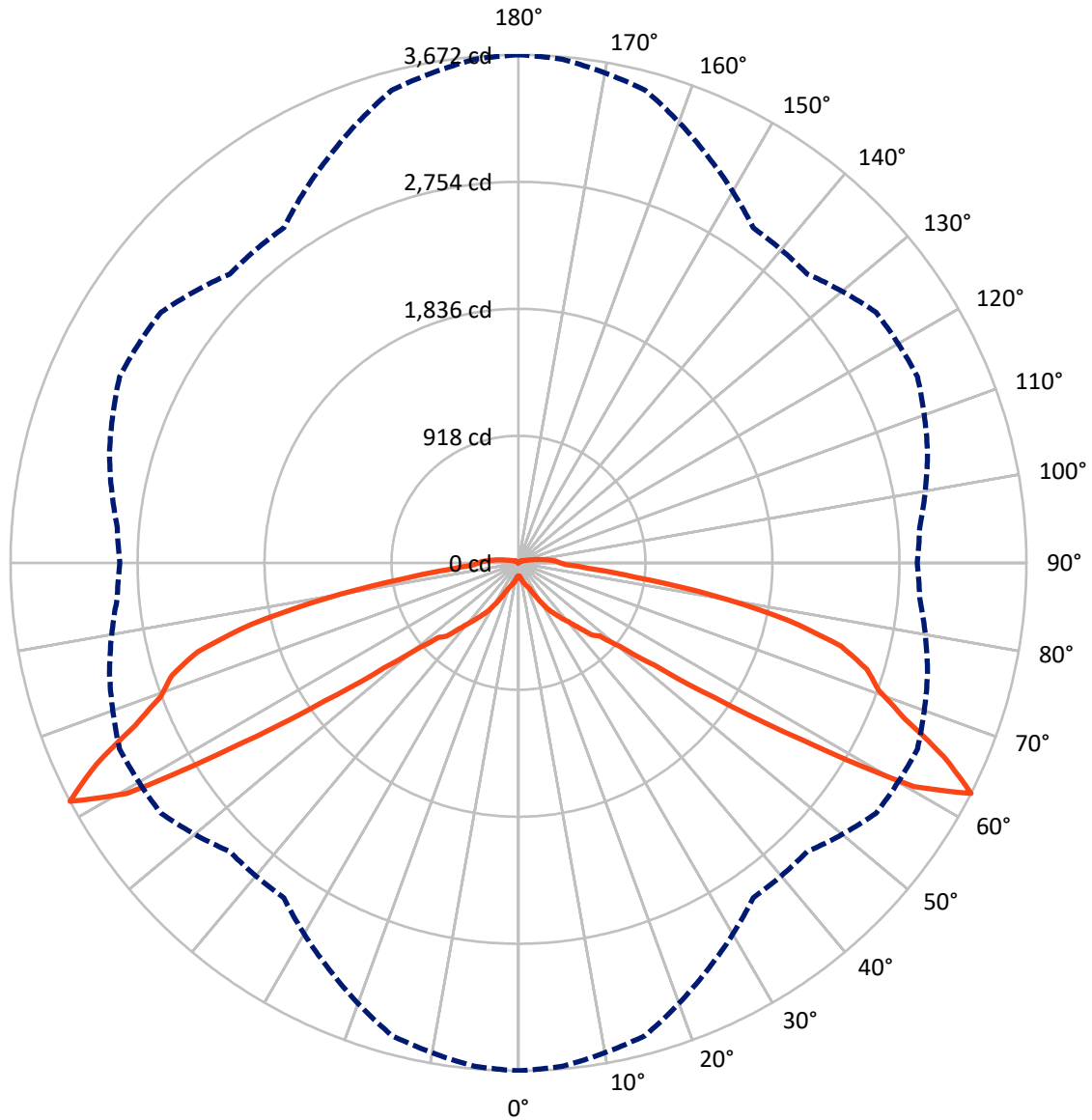
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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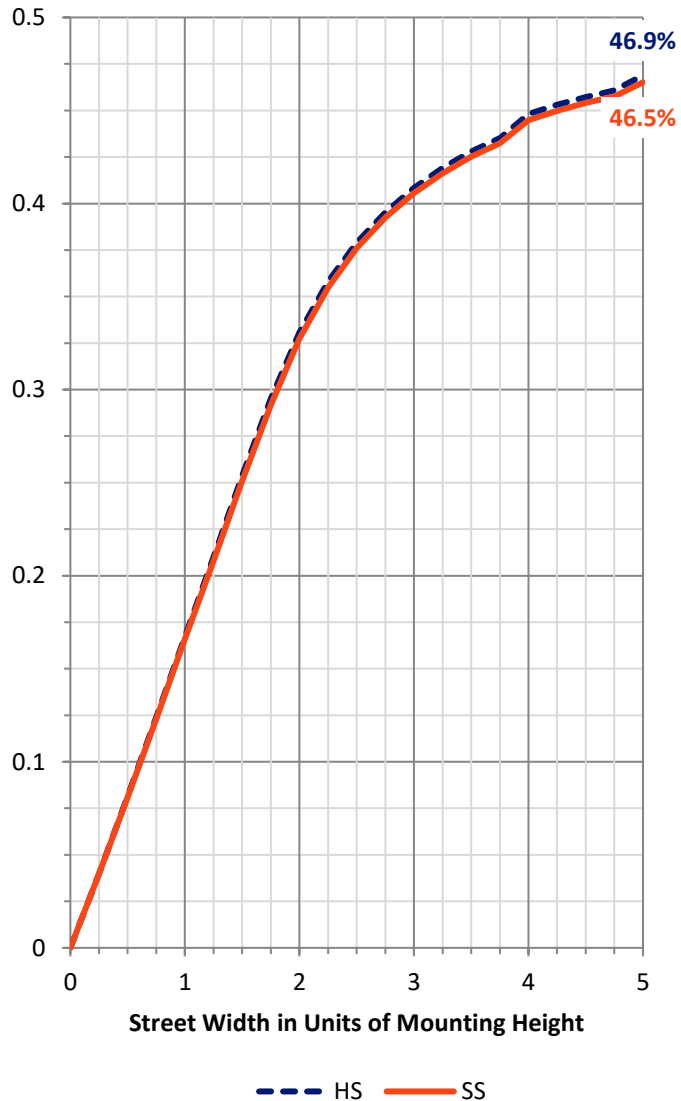
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4140.0	165.5	4305.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4140.0	165.5	4305.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	8280.1	330.9	8611.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.1
10°-20°	43.4	0.5
20°-30°	114.5	1.3
30°-40°	260.5	3.0
40°-50°	526.8	6.1
50°-60°	1559.5	18.1
60°-70°	2929.9	34.0
70°-80°	2177.8	25.3
80°-90°	657.4	7.6
90°-100°	213.3	2.5
100°-110°	74.7	0.9
110°-120°	28.9	0.3
120°-130°	11.4	0.1
130°-140°	2.3	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	8280.1	96.2
0°-180°	8611.0	100.0

Coefficient of Utilization



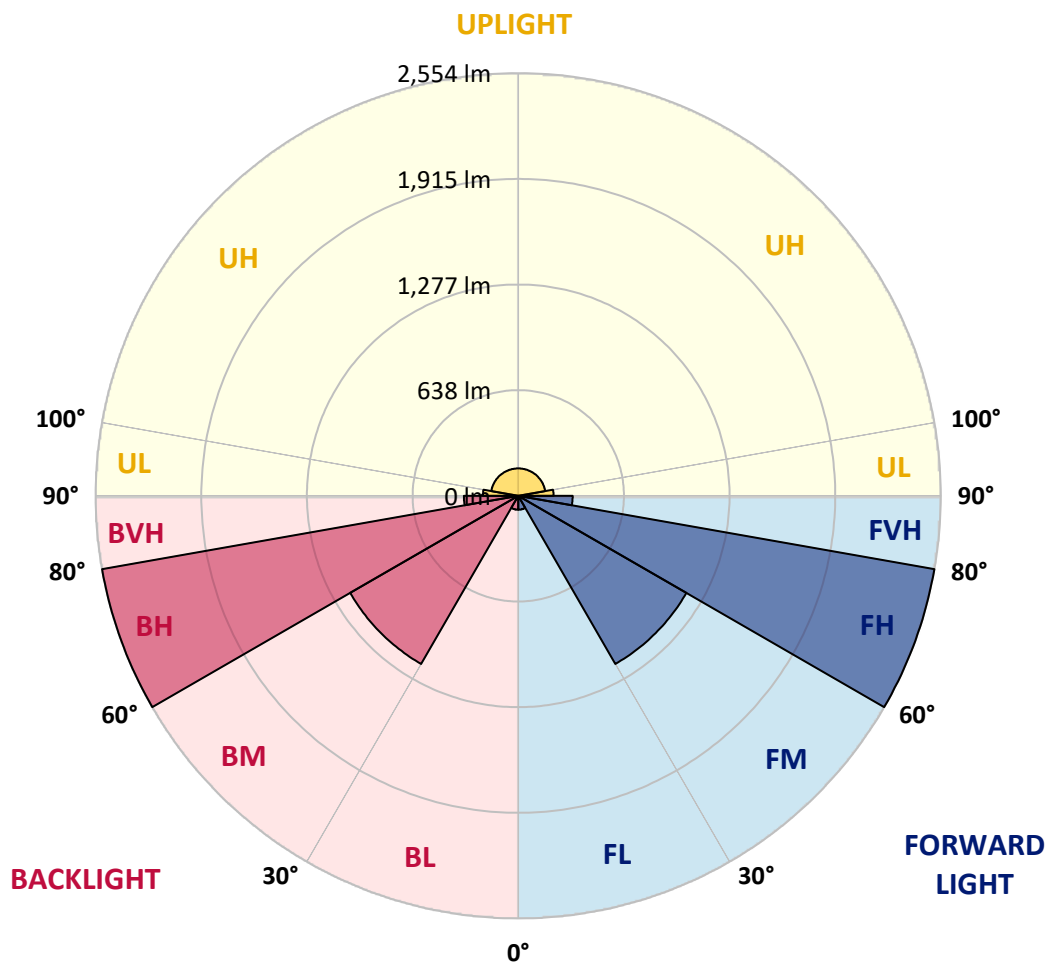
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	84.1	1.0			
FM (30°-60°)	1173.4	13.6			
FH (60°-80°)	2553.8	29.7			G2/5000
FVH (80°-90°)	328.7	3.8			G3/500
BL (0°-30°)	84.1	1.0	B0/110		
BM (30°-60°)	1173.4	13.6	B2/2500		
BH (60°-80°)	2553.8	29.7	B4/5000		G2/5000
BVH (80°-90°)	328.7	3.8			G3/500
UL (90°-100°)	213.3	2.5		U3/500	
UH (100°-180°)	165.5	1.9		U3/500	

BUG Rating: B4-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2.5°	96.3	96.3	96.3	94.7	93.1	93.1	93.1	93.1	91.4	91.4	91.4
5°	101.2	101.2	99.6	98.0	98.0	96.3	98.0	96.3	96.3	96.3	98.0
7.5°	112.7	112.7	111.0	111.0	111.0	109.4	109.4	109.4	109.4	107.8	109.4
10°	125.7	125.7	125.7	125.7	125.7	124.1	124.1	122.5	122.5	122.5	122.5
12.5°	140.4	138.8	138.8	140.4	138.8	137.1	137.1	137.1	135.5	135.5	135.5
15°	153.5	153.5	151.8	151.8	151.8	150.2	150.2	148.6	148.6	146.9	146.9
17.5°	166.5	166.5	164.9	163.3	163.3	163.3	161.6	161.6	160.0	160.0	160.0
20°	182.9	181.2	179.6	178.0	176.3	176.3	176.3	176.3	174.7	173.1	173.1
22.5°	200.8	199.2	197.6	195.9	195.9	194.3	194.3	192.7	192.7	191.0	189.4
25°	238.4	238.4	231.8	230.2	230.2	231.8	230.2	228.6	225.3	220.4	220.4
27.5°	289.0	290.6	292.3	300.4	298.8	287.4	280.8	277.6	275.9	275.9	277.6
30°	346.1	347.8	352.7	360.8	355.9	341.2	324.9	318.4	323.3	329.8	331.4
32.5°	406.5	406.5	396.7	385.3	373.9	364.1	359.2	355.9	354.3	349.4	349.4
35°	453.9	445.7	414.7	377.1	365.7	372.3	391.8	398.4	373.9	351.0	347.8
37.5°	507.8	506.1	481.6	453.9	432.7	429.4	450.6	457.2	431.0	416.3	414.7
40°	564.9	568.2	573.1	561.6	529.0	519.2	507.8	499.6	499.6	501.2	498.0
42.5°	641.6	646.5	646.5	648.2	622.1	599.2	576.3	563.3	561.6	574.7	579.6
45°	744.5	744.5	733.1	710.2	698.8	682.5	667.8	654.7	648.2	649.8	654.7
47.5°	790.2	793.5	783.7	751.0	742.9	726.5	705.3	700.4	703.7	708.6	710.2
50°	950.2	942.1	875.1	806.5	782.1	798.4	829.4	837.6	806.5	775.5	767.4
52.5°	1231.0	1229.4	1177.2	1126.6	1092.3	1082.5	1124.9	1128.2	1074.3	1051.4	1048.2
55°	1717.6	1699.6	1738.8	1763.3	1691.5	1611.5	1582.1	1541.3	1544.5	1590.2	1591.9
57.5°	2408.2	2418.0	2462.1	2398.4	2289.0	2230.2	2189.4	2112.7	2114.3	2155.1	2158.4
60°	3285.0	3283.3	3142.9	2898.0	2729.8	2741.3	2853.9	2870.3	2695.6	2582.9	2569.8
62.5°	3671.9	3653.9	3538.0	3240.9	2956.8	2951.9	3156.0	3182.1	3061.3	2911.1	2881.7
65°	3379.7	3365.0	3413.9	3312.7	2938.8	2842.5	2904.5	2898.0	2974.7	3043.3	3051.5
67.5°	3009.0	3012.3	3129.9	3098.8	2839.2	2676.0	2597.6	2587.8	2731.5	2891.5	2912.7
70°	2760.9	2760.9	2844.1	2718.4	2594.3	2488.2	2406.6	2356.0	2449.0	2475.1	2473.5
72.5°	2633.5	2622.1	2563.3	2442.5	2347.8	2254.7	2279.2	2241.7	2197.6	2129.0	2122.5
75°	2406.6	2393.5	2311.9	2254.7	2186.2	2070.2	2091.5	2053.9	1980.4	1918.4	1908.6
77.5°	1988.6	1988.6	1936.4	1893.9	1874.3	1774.7	1764.9	1747.0	1673.5	1639.2	1626.2
80°	1423.7	1420.4	1399.2	1384.5	1409.0	1350.2	1324.1	1324.1	1294.7	1263.7	1249.0
82.5°	847.4	835.9	835.9	840.8	826.1	788.6	795.1	832.7	829.4	811.4	798.4
85°	501.2	494.7	489.8	483.3	470.2	444.1	444.1	447.4	450.6	452.3	445.7
87.5°	334.7	333.1	333.1	333.1	318.4	300.4	308.6	313.5	310.2	308.6	306.9
90°	292.3	293.9	292.3	285.7	272.7	256.3	259.6	266.1	262.9	262.9	261.2
92.5°	262.9	262.9	259.6	253.1	240.0	225.3	226.9	230.2	228.6	226.9	225.3
95°	215.5	215.5	212.2	207.4	195.9	182.9	184.5	187.8	184.5	184.5	182.9
97.5°	168.2	168.2	166.5	163.3	153.5	143.7	145.3	146.9	145.3	145.3	143.7
100°	127.3	127.3	125.7	120.8	115.9	107.8	109.4	112.7	111.0	111.0	109.4
102.5°	94.7	94.7	93.1	91.4	84.9	80.0	81.6	81.6	81.6	80.0	80.0
105°	73.5	73.5	73.5	70.2	66.9	62.0	62.0	62.0	62.0	60.4	60.4
107.5°	58.8	57.1	57.1	55.5	52.2	49.0	49.0	49.0	49.0	49.0	49.0
110°	47.3	45.7	44.1	44.1	40.8	39.2	37.6	39.2	39.2	39.2	39.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	40.8	39.2	35.9	35.9	34.3	31.0	31.0	31.0	34.3	32.7	32.7
115°	35.9	34.3	29.4	29.4	27.8	26.1	26.1	26.1	29.4	26.1	26.1
117.5°	31.0	29.4	24.5	24.5	22.9	21.2	21.2	21.2	24.5	21.2	21.2
120°	22.9	22.9	19.6	19.6	19.6	18.0	18.0	18.0	19.6	18.0	18.0
122.5°	18.0	18.0	16.3	16.3	16.3	14.7	14.7	14.7	14.7	13.1	13.1
125°	18.0	21.2	13.1	13.1	11.4	11.4	11.4	9.8	11.4	9.8	9.8
127.5°	19.6	18.0	9.8	9.8	9.8	8.2	8.2	8.2	8.2	8.2	8.2
130°	6.5	9.8	6.5	6.5	6.5	6.5	6.5	6.5	4.9	4.9	4.9
132.5°	4.9	4.9	4.9	4.9	4.9	4.9	3.3	3.3	3.3	3.3	3.3
135°	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6
137.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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	1.6	1.6	1.6	1.6	1.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
170°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
172.5°	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
175°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
177.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

(END OF REPORT)