

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 769252_400MP

Luminaire Tested: **ACN40PXX5C1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769252_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN40PXX5C1
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE V CUTOFF WITH CAGE
W/SPECULAR CHIMNEY AND CAGE
Light Source: 400 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 44000 (1 lamp)
Luminaire Lumens: 26986.4 lumens
Efficiency: 61.3%
Efficacy: 59.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B5 - U3 - G2

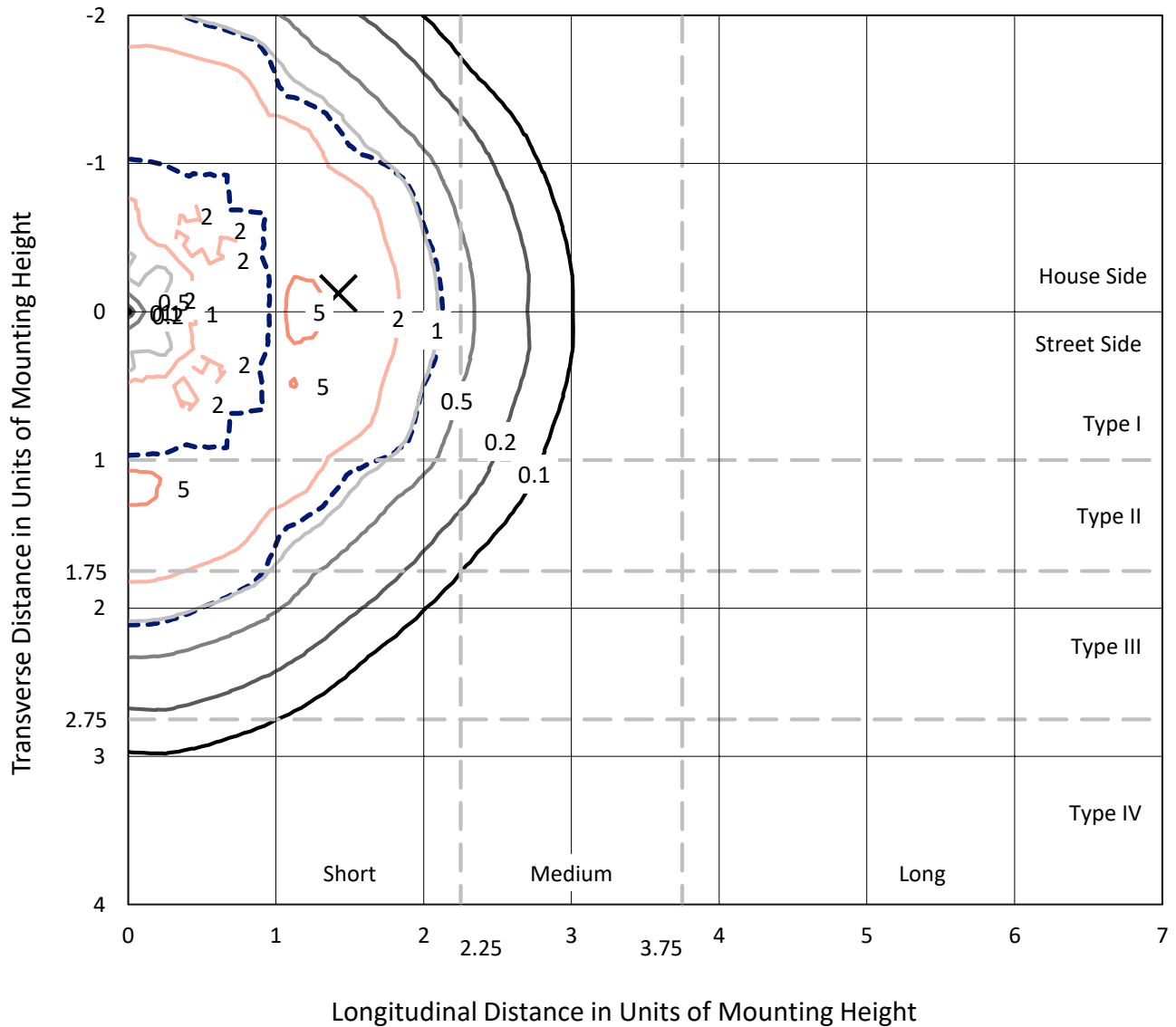
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

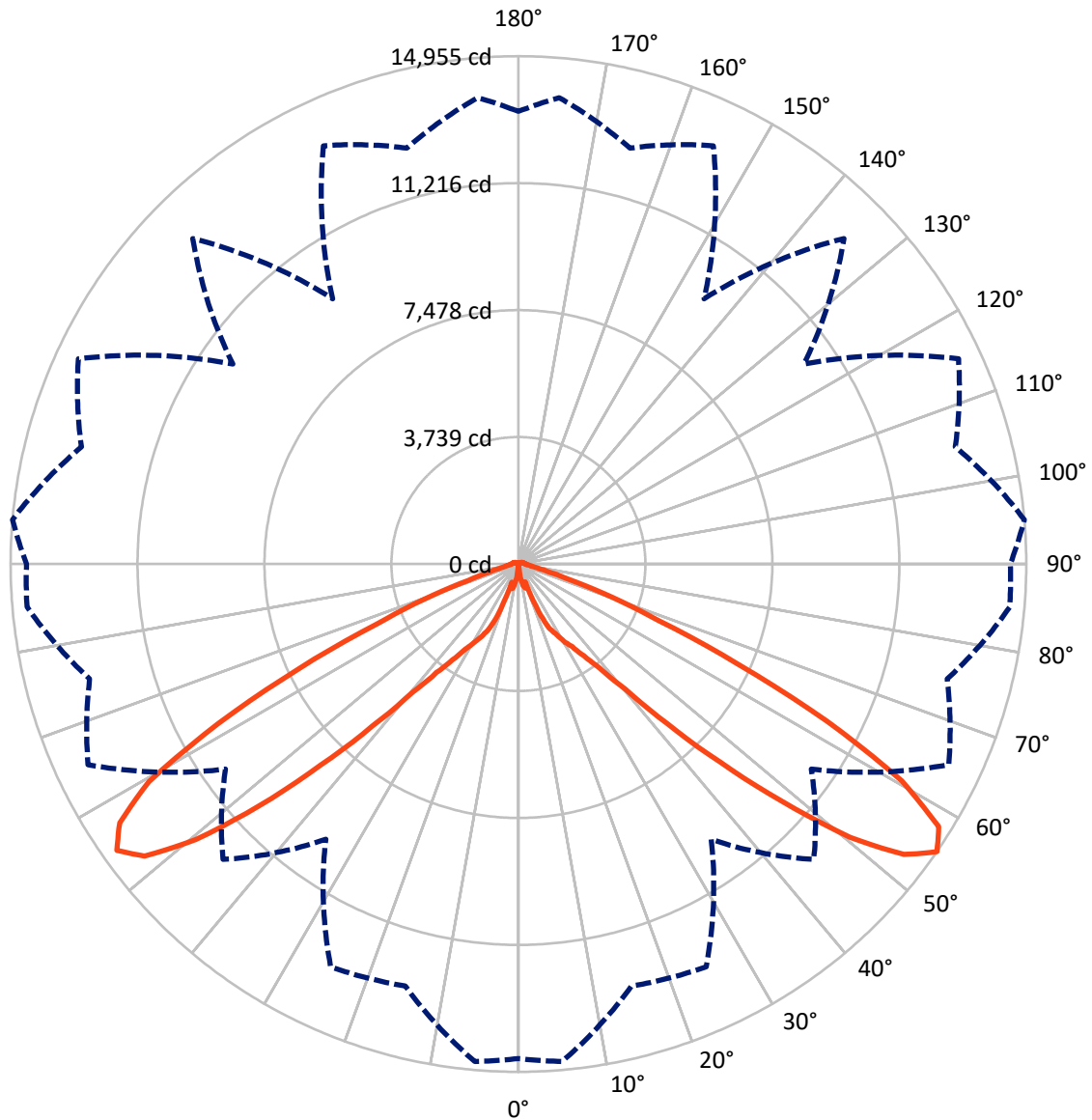
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 95-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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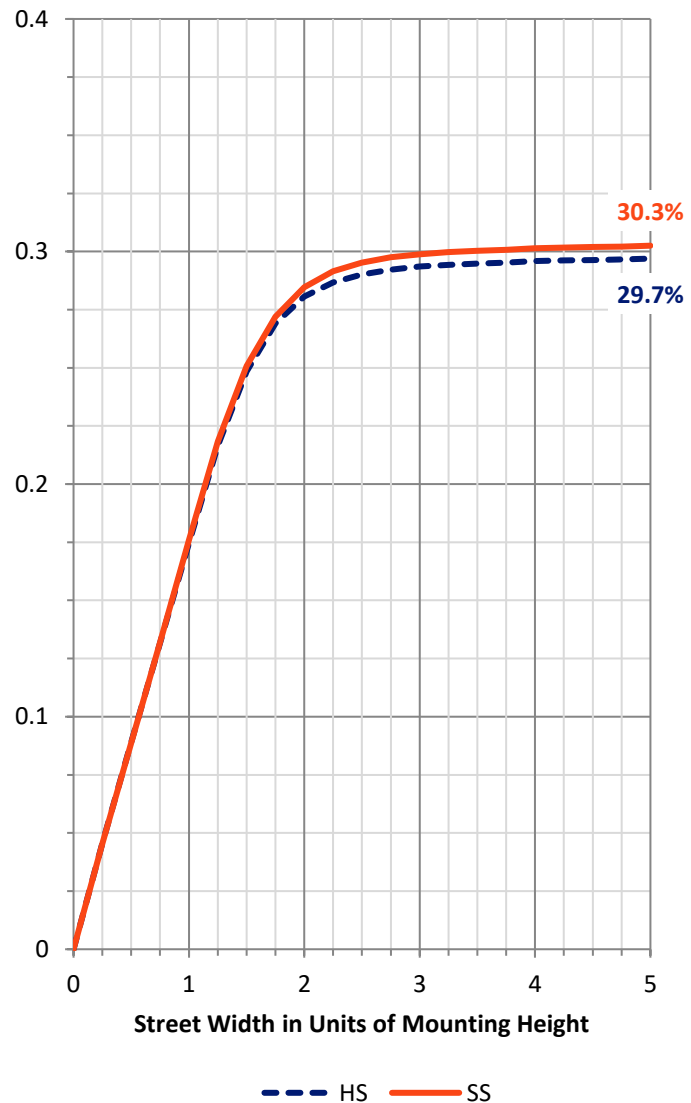
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13154.5	226.0	13380.5
	% Lamp	29.9	0.5	30.4
Street Side	Lumens	13373.1	232.9	13605.9
	% Lamp	30.4	0.5	30.9
Total	Lumens	26527.6	458.8	26986.4
	% Lamp	60.3	1.0	61.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.1	0.1	0.1
10°-20°	184.2	0.7	0.4
20°-30°	741.9	2.7	1.7
30°-40°	1817.8	6.7	4.1
40°-50°	5663.5	21.0	12.9
50°-60°	10836.2	40.2	24.6
60°-70°	6024.1	22.3	13.7
70°-80°	980.0	3.6	2.2
80°-90°	253.8	0.9	0.6
90°-100°	166.7	0.6	0.4
100°-110°	128.3	0.5	0.3
110°-120°	87.9	0.3	0.2
120°-130°	49.7	0.2	0.1
130°-140°	21.6	0.1	0.0
140°-150°	6.1	0.0	0.0
150°-160°	0.8	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	26527.6	98.3	60.3
0°-180°	26986.4	100.0	61.3

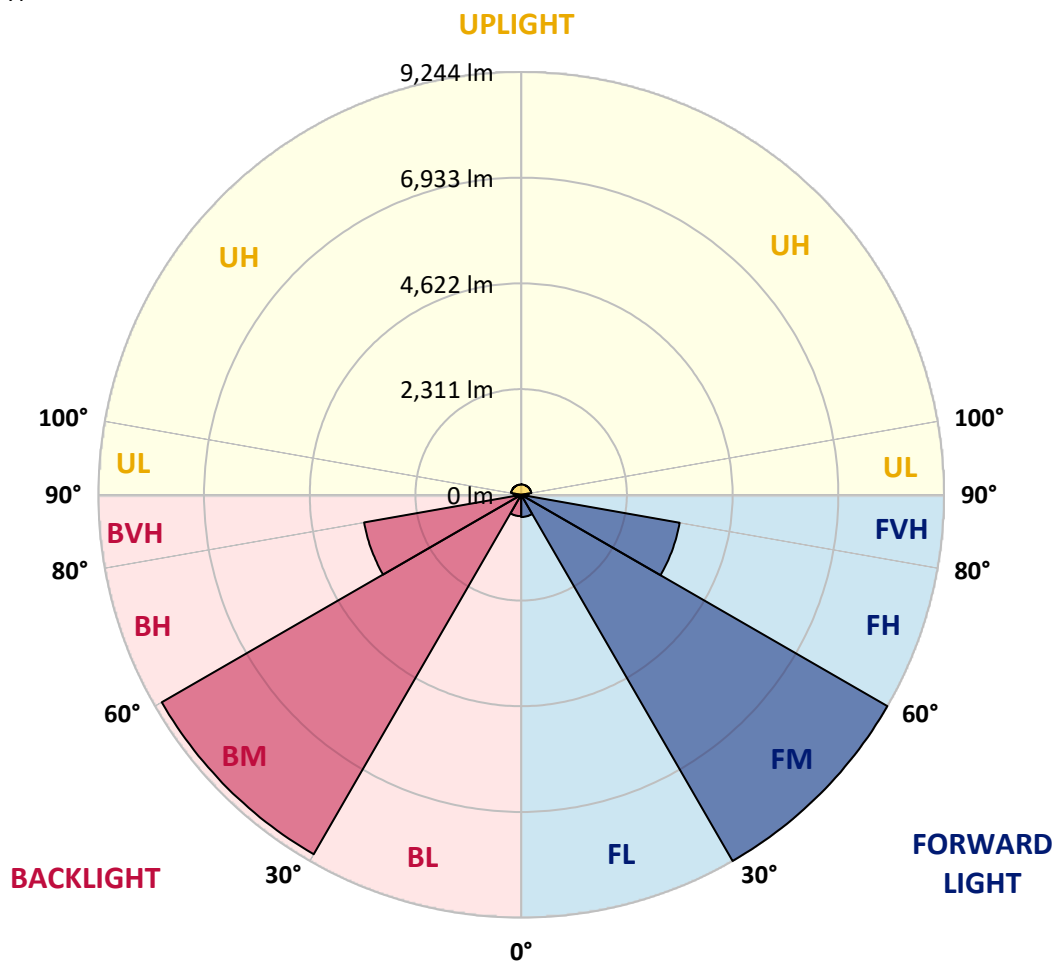


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.4	1.1			
FM (30°-60°)	9244.4	21.0			
FH (60°-80°)	3517.3	8.0			G2/5000
FVH (80°-90°)	127.0	0.3			G2/225
BL (0°-30°)	467.8	1.1	B1/500		
BM (30°-60°)	9073.1	20.6	B5		
BH (60°-80°)	3486.8	7.9	B4/5000		G2/5000
BVH (80°-90°)	126.8	0.3			G2/225
UL (90°-100°)	166.7	0.4		U3/500	
UH (100°-180°)	226.0	0.5		U3/500	
Trapped Light	17013.6	38.7			

BUG Rating: B5-U3-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
2.5°	12.2	12.2	18.3	12.2	18.3	12.2	12.2	12.2	12.2	12.2	18.3
5°	86.8	74.6	80.7	68.4	44.0	37.9	37.9	44.0	56.2	56.2	62.3
7.5°	386.2	386.2	398.4	380.1	349.6	355.7	349.6	367.9	386.2	398.4	405.8
10°	510.9	498.7	542.7	579.3	579.3	573.2	598.9	605.0	598.9	542.7	517.0
12.5°	536.6	573.2	704.0	772.4	754.1	748.0	772.4	779.8	729.7	679.6	647.8
15°	647.8	629.4	655.1	667.3	704.0	741.9	710.1	673.4	717.4	748.0	729.7
17.5°	548.8	561.0	536.6	567.1	585.4	592.8	635.6	567.1	579.3	605.0	623.3
20°	523.1	523.1	486.4	504.8	530.4	542.7	579.3	510.9	510.9	567.1	567.1
22.5°	697.9	1389.7	1552.2	1720.9	997.3	542.7	1015.7	1701.3	1676.9	1645.1	872.7
25°	1783.2	1795.4	1857.8	1970.2	1202.7	554.9	1234.4	2013.0	1994.7	2107.1	2187.8
27.5°	2069.2	2088.8	2207.3	2362.6	1284.6	2318.6	1166.0	2306.3	2318.6	2394.3	2549.6
30°	2332.0	2387.0	2499.4	2624.1	1166.0	2836.8	1065.8	2574.0	2537.3	2662.0	2786.7
32.5°	2555.7	2605.8	2742.7	2985.9	1140.3	3273.1	1071.9	3017.7	2879.6	2961.4	3116.7
35°	2879.6	2941.9	3036.0	3285.3	1246.7	3659.3	1196.6	3454.0	3309.8	3422.2	3446.7
37.5°	3391.7	3490.7	3528.6	3821.9	1552.2	4133.6	1520.4	3914.8	3846.3	4001.6	3933.1
40°	4389.0	4469.7	4382.9	4712.9	2200.0	4992.8	2200.0	4843.7	4731.2	4887.7	4763.0
42.5°	6059.8	6140.4	5847.1	6184.4	3241.3	6426.4	3273.1	6377.6	6196.7	6414.2	6389.8
45°	8078.9	8097.2	7455.6	7829.6	4743.4	7811.2	4831.4	8116.8	7841.8	8303.8	8360.0
47.5°	10547.8	10528.2	9482.0	9912.2	6508.3	9494.2	6645.2	10186.0	9606.7	10459.8	10473.2
50°	12703.8	12735.6	11277.4	11726.0	8159.6	11002.4	8459.0	12156.2	11301.9	12492.3	12542.4
52.5°	14088.6	14175.3	12448.3	12810.1	9295.0	12031.6	9787.6	13583.8	12516.8	13970.0	13970.0
55°	14561.6	14705.8	12866.3	13085.1	9892.7	12299.2	10528.2	13982.2	13071.7	14524.9	14487.0
57.5°	13851.4	14100.8	12474.0	12299.2	9530.9	11589.1	10142.0	13396.8	12673.2	14000.6	13963.9
60°	12367.7	12436.1	11171.1	10803.2	8054.4	9188.7	8553.1	12068.2	11352.0	12635.3	12516.8
62.5°	9898.8	9967.2	9001.7	8565.3	6171.0	6470.4	6520.6	9581.0	8969.9	10017.3	10085.8
65°	6981.3	7019.2	6271.2	5878.9	4389.0	4382.9	4700.7	6675.8	6327.4	7156.1	7168.3
67.5°	4264.3	4351.1	3870.8	3509.0	3072.7	3104.4	3315.9	4063.9	3977.1	4538.1	4457.4
70°	2543.4	2736.6	2462.8	2213.4	1876.1	1901.8	2026.4	2487.2	2630.2	2955.3	2742.7
72.5°	1409.2	1445.9	1333.4	1234.4	1059.7	1047.4	1059.7	1321.2	1409.2	1540.0	1582.8
75°	810.3	842.1	810.3	754.1	617.2	611.1	592.8	792.0	860.4	928.9	966.8
77.5°	498.7	523.1	517.0	480.3	386.2	380.1	349.6	480.3	548.8	579.3	598.9
80°	349.6	361.8	361.8	343.4	267.7	261.6	249.3	336.1	392.3	411.9	398.4
82.5°	273.8	281.1	287.2	267.7	211.4	211.4	211.4	281.1	311.7	323.9	336.1
85°	237.1	237.1	243.2	224.9	174.8	174.8	180.9	231.0	255.4	267.7	305.6
87.5°	211.4	205.3	211.4	193.1	156.4	156.4	156.4	199.2	224.9	224.9	231.0
90°	174.8	187.0	187.0	174.8	143.0	143.0	143.0	180.9	199.2	205.3	211.4
95°	162.6	162.6	162.6	156.4	130.8	124.7	130.8	162.6	174.8	187.0	174.8
105°	136.9	130.8	136.9	124.7	106.3	100.2	106.3	130.8	136.9	143.0	143.0
115°	100.2	106.3	100.2	86.8	68.4	68.4	80.7	94.1	106.3	106.3	112.4
125°	62.3	62.3	62.3	56.2	37.9	37.9	44.0	50.1	68.4	62.3	68.4
135°	37.9	31.8	37.9	24.4	18.3	12.2	18.3	24.4	31.8	37.9	37.9
145°	12.2	12.2	12.2	0.0	0.0	0.0	0.0	12.2	6.1	6.1	18.3
155°	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



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	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°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
2.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
5°	62.3	50.1	37.9	24.4	18.3	12.2	12.2	18.3	18.3	12.2
7.5°	392.3	380.1	349.6	336.1	330.0	323.9	330.0	330.0	355.7	374.0
10°	530.4	592.8	592.8	561.0	592.8	605.0	598.9	554.9	567.1	573.2
12.5°	667.3	717.4	828.7	816.4	785.9	816.4	785.9	785.9	710.1	685.7
15°	729.7	704.0	710.1	735.8	741.9	741.9	717.4	772.4	772.4	822.6
17.5°	617.2	585.4	592.8	635.6	629.4	667.3	617.2	655.1	741.9	661.2
20°	561.0	536.6	510.9	592.8	523.1	579.3	510.9	542.7	598.9	561.0
22.5°	1533.9	1626.8	1614.6	1015.7	498.7	916.7	1427.6	1290.7	1059.7	834.8
25°	2082.7	2044.8	1994.7	1265.0	592.8	1252.8	1876.1	1602.3	1458.1	1371.3
27.5°	2318.6	2225.7	2412.7	1128.1	2151.1	1327.3	2181.7	1813.8	1540.0	1546.1
30°	2636.3	2599.7	2724.3	1041.3	2718.2	1465.4	2587.4	2094.9	1739.2	1695.2
32.5°	2899.1	2861.2	3004.2	1065.8	2973.7	1445.9	2768.3	2412.7	1958.0	1870.0
35°	3322.0	3223.0	3372.1	1128.1	3428.3	1395.8	3116.7	2668.1	2175.6	2057.0
37.5°	3902.6	3721.7	3821.9	1403.1	3864.7	1558.3	3416.1	3036.0	2505.6	2380.9
40°	4843.7	4488.0	4675.0	1907.9	4712.9	1970.2	4220.3	3784.0	3309.8	3204.7
42.5°	6414.2	5947.3	6096.4	2867.3	6259.0	2998.1	5766.4	5205.4	4874.2	4624.9
45°	8322.1	7530.1	7773.3	4326.7	7835.7	4395.1	7343.1	6826.1	6757.7	6595.1
47.5°	10435.3	9625.0	9774.1	6339.7	9755.8	6358.0	9568.8	8957.7	9126.3	8826.9
50°	12661.0	11495.0	11881.2	8303.8	11756.6	8066.7	11619.7	10896.1	11444.9	10958.4
52.5°	14213.2	12904.2	13477.4	9711.8	13022.8	9182.6	12984.9	12261.3	13115.7	12641.4
55°	14955.1	13321.0	14300.0	10260.6	13558.1	9530.9	13589.9	12679.3	13783.0	13328.3
57.5°	14593.3	13065.6	13907.7	9830.3	12635.3	9057.9	13171.9	12386.0	13402.9	13028.9
60°	12972.7	11913.0	12442.2	8577.6	9836.4	7867.4	11682.0	11133.2	11806.7	11470.6
62.5°	10198.2	9468.6	9618.9	6870.1	6856.7	6208.9	8802.4	8509.1	9269.3	8889.2
65°	7093.8	6657.4	6538.9	5024.6	4681.1	4525.9	5740.8	5559.9	6339.7	5959.6
67.5°	4463.6	4145.8	3908.7	3403.9	3166.8	3042.1	3559.1	3565.2	4126.2	3828.0
70°	2929.7	2718.2	2443.2	1895.7	1845.6	1701.3	2400.4	2387.0	2587.4	2344.2
72.5°	1527.8	1333.4	1184.3	916.7	997.3	904.4	1166.0	1166.0	1252.8	1159.9
75°	922.8	792.0	691.8	517.0	592.8	554.9	685.7	685.7	735.8	710.1
77.5°	573.2	517.0	454.7	323.9	392.3	367.9	454.7	480.3	492.6	486.4
80°	418.0	405.8	349.6	237.1	267.7	267.7	349.6	361.8	355.7	361.8
82.5°	336.1	323.9	293.3	187.0	205.3	205.3	287.2	293.3	281.1	299.4
85°	261.6	261.6	231.0	174.8	174.8	174.8	224.9	231.0	243.2	261.6
87.5°	224.9	218.8	193.1	149.1	149.1	149.1	193.1	205.3	205.3	224.9
90°	205.3	193.1	187.0	136.9	136.9	136.9	168.7	180.9	187.0	174.8
95°	174.8	180.9	156.4	118.6	118.6	112.4	149.1	162.6	162.6	149.1
105°	143.0	143.0	130.8	100.2	94.1	94.1	124.7	124.7	124.7	124.7
115°	106.3	106.3	100.2	68.4	74.6	68.4	86.8	86.8	100.2	86.8
125°	68.4	62.3	56.2	37.9	37.9	37.9	50.1	56.2	62.3	62.3
135°	31.8	37.9	24.4	18.3	12.2	18.3	24.4	31.8	31.8	37.9
145°	6.1	12.2	6.1	0.0	6.1	6.1	0.0	12.2	6.1	12.2
155°	0.0	6.1	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	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)