

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: 769249_400MP

Luminaire Tested: **ACN40PXX3C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769249_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN40PXX3C
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE III CUTOFF
W/SPECULAR CHIMNEY
Light Source: 400 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 44000 (1 lamp)
Luminaire Lumens: 31390.4 lumens
Efficiency: 71.3%
Efficacy: 69.4 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B5 - U3 - G4

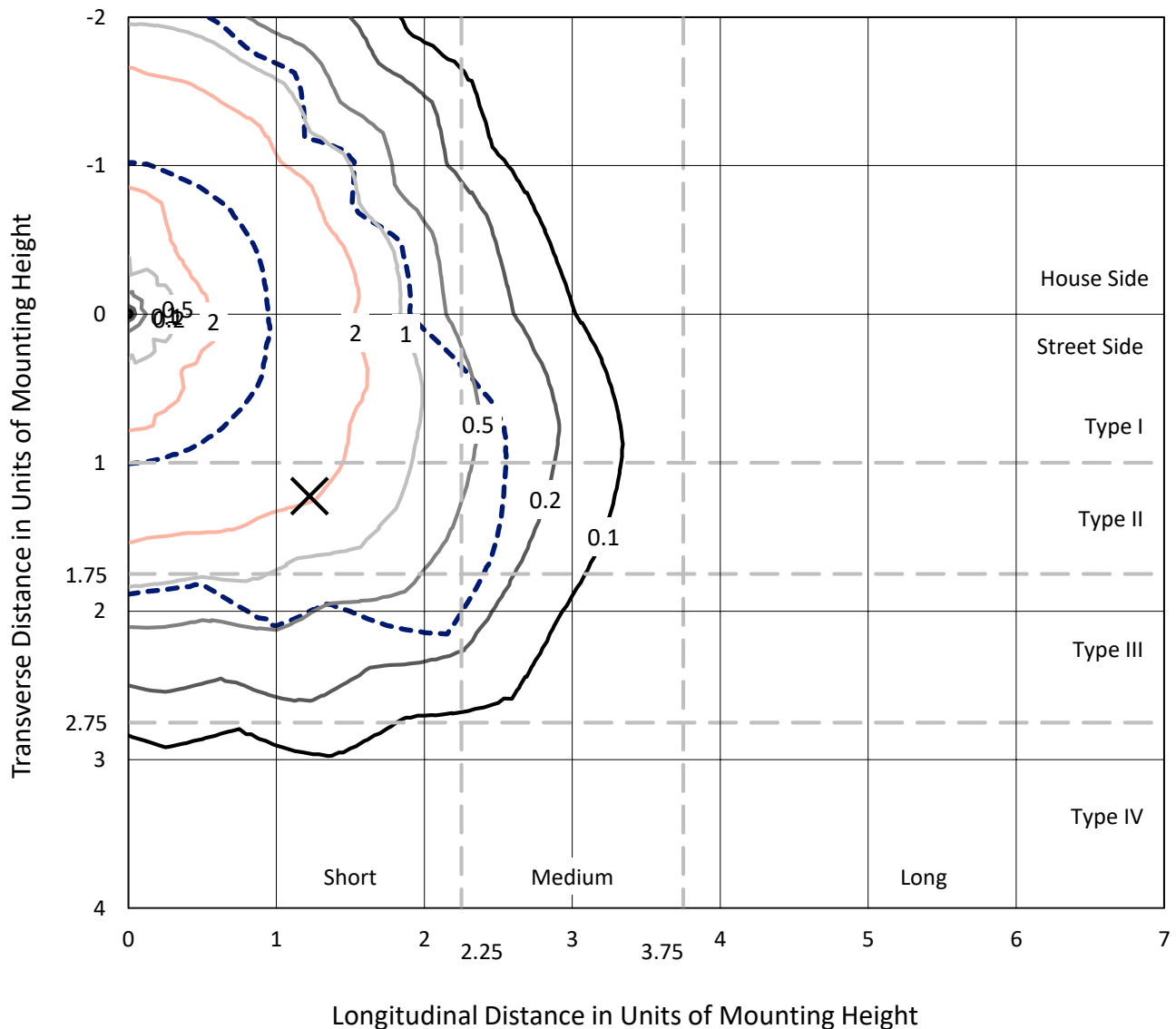
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

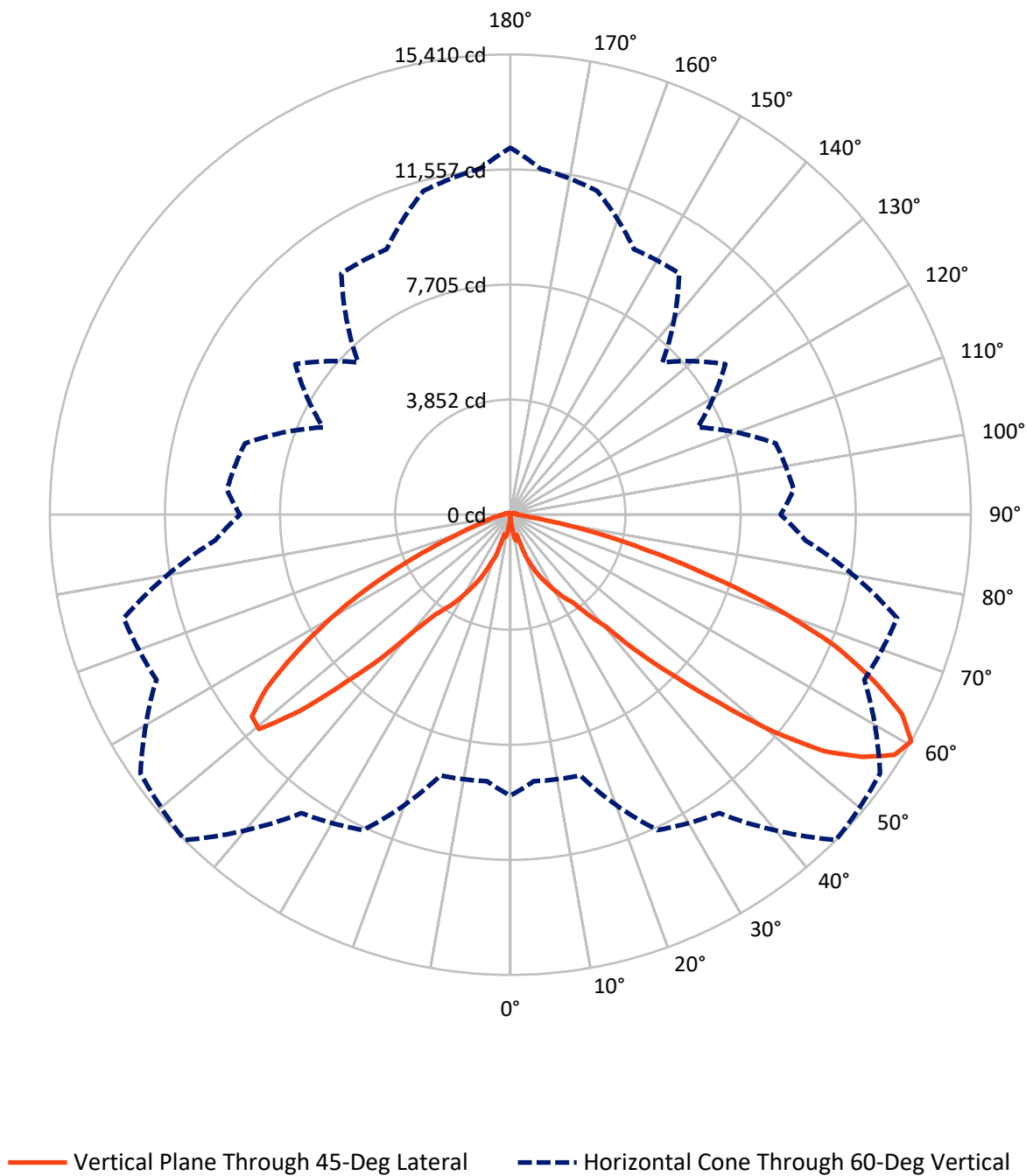
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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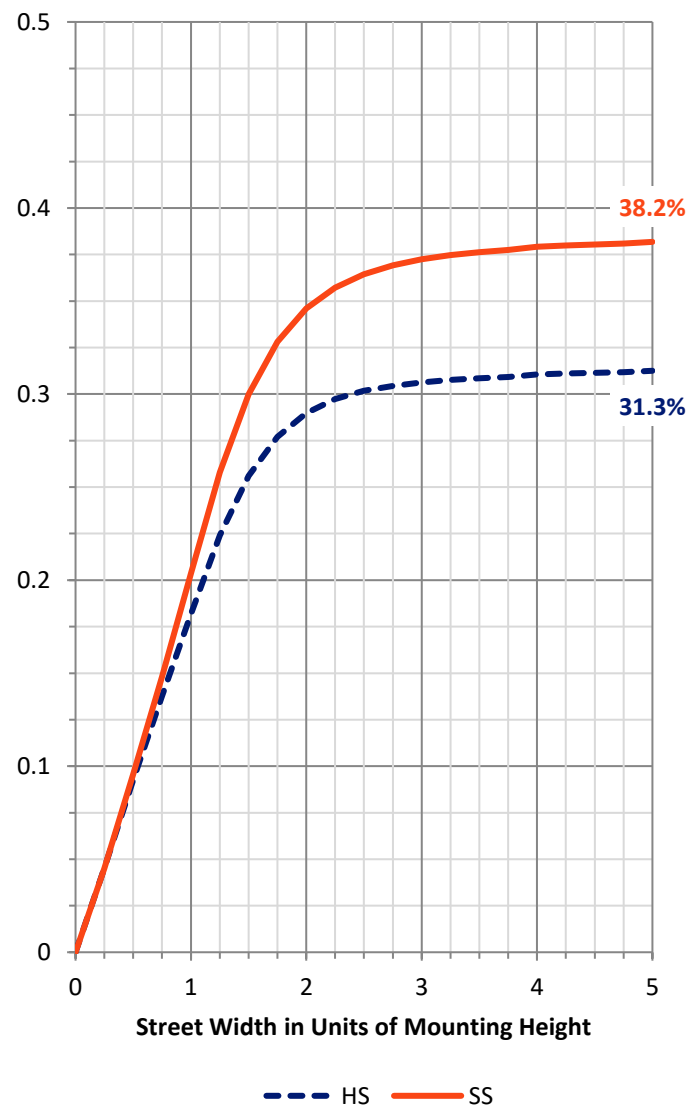
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13872.2	306.7	14178.9
	% Lamp	31.5	0.7	32.2
Street Side	Lumens	16899.8	311.7	17211.5
	% Lamp	38.4	0.7	39.1
Total	Lumens	30772.0	618.4	31390.4
	% Lamp	69.9	1.4	71.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.3	0.1	0.1
10°-20°	243.1	0.8	0.6
20°-30°	969.5	3.1	2.2
30°-40°	2250.6	7.2	5.1
40°-50°	6325.9	20.2	14.4
50°-60°	10691.0	34.1	24.3
60°-70°	7462.9	23.8	17.0
70°-80°	2329.1	7.4	5.3
80°-90°	461.7	1.5	1.0
90°-100°	223.4	0.7	0.5
100°-110°	161.1	0.5	0.4
110°-120°	110.2	0.4	0.3
120°-130°	71.8	0.2	0.2
130°-140°	38.6	0.1	0.1
140°-150°	14.5	0.0	0.0
150°-160°	3.9	0.0	0.0
160°-170°	0.7	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	30772.0	98.0	69.9
0°-180°	31390.4	100.0	71.3

Coefficient of Utilization

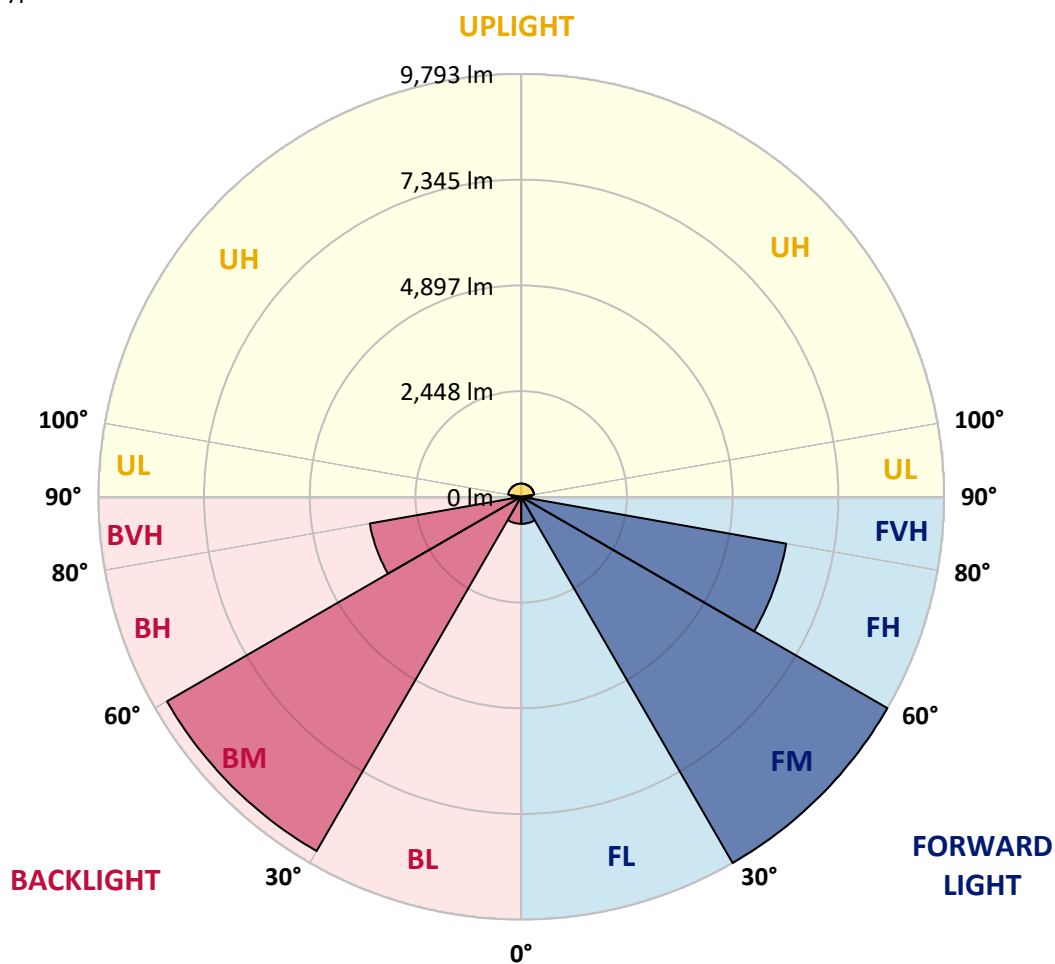


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.8	1.4			
FM	(30°-60°)	9793.3	22.3			
FH	(60°-80°)	6231.9	14.2			G3/7500
FVH	(80°-90°)	247.8	0.6			G3/500
BL	(0°-30°)	624.1	1.4	B2/1000		
BM	(30°-60°)	9474.2	21.5	B5		
BH	(60°-80°)	3560.0	8.1	B4/5000		G4/5000
BVH	(80°-90°)	213.9	0.5			G2/225
UL	(90°-100°)	223.4	0.5		U3/500	
UH	(100°-180°)	306.7	0.7		U3/500	
Trapped Light		12609.6	28.7			

BUG Rating: B5-U3-G4
Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	6.1	12.2	12.2
5°	149.1	156.4	143.0	149.1	149.1	162.6	136.9	143.0	149.1	156.4	162.6
7.5°	548.8	554.9	548.8	530.4	536.6	561.0	548.8	561.0	548.8	554.9	542.7
10°	723.6	754.1	766.3	804.2	804.2	816.4	828.7	816.4	828.7	810.3	798.1
12.5°	897.1	910.6	922.8	935.0	935.0	897.1	916.7	922.8	922.8	878.8	854.3
15°	884.9	897.1	916.7	866.6	842.1	834.8	848.2	816.4	798.1	754.1	735.8
17.5°	772.4	754.1	748.0	741.9	741.9	704.0	697.9	641.7	661.2	623.3	635.6
20°	1097.6	1140.3	1172.1	1340.8	1134.2	1496.0	1433.7	1383.6	1389.7	1246.7	1377.4
22.5°	1596.2	1540.0	1658.6	1819.9	1763.7	1914.0	1763.7	1739.2	1745.3	1596.2	1795.4
25°	1932.3	1920.1	1950.7	2026.4	2013.0	2269.7	2219.6	2163.3	2119.3	1982.4	2237.9
27.5°	2181.7	2163.3	2300.2	2193.9	2250.1	2599.7	2499.4	2443.2	2394.3	2300.2	2567.9
30°	2431.0	2374.8	2574.0	2519.0	2567.9	2941.9	2873.4	2842.9	2761.0	2567.9	2798.9
32.5°	2706.0	2742.7	2923.6	2792.8	2967.6	3315.9	3185.1	3128.9	3110.6	2849.0	3185.1
35°	2979.8	2998.1	3210.8	3353.8	3440.6	3609.2	3597.0	3565.2	3559.1	3484.6	3528.6
37.5°	3391.7	3416.1	3621.4	3771.8	3870.8	4250.9	4027.2	3989.3	4126.2	3958.8	4107.9
40°	4176.3	4195.9	4425.7	4588.2	4656.7	4943.9	4893.8	4825.3	5074.7	4936.6	5223.8
42.5°	5710.2	5654.0	5965.7	6072.0	6090.3	6321.3	6246.8	6184.4	6695.3	6551.1	6987.4
45°	7505.7	7524.0	7736.7	7692.7	7698.8	7711.0	7698.8	7568.0	8652.1	8290.3	8851.3
47.5°	9574.9	9400.1	9518.7	9381.8	9438.0	9431.9	9400.1	9219.2	10646.8	10129.8	10572.2
50°	11320.2	10847.2	10940.1	11058.7	11040.3	11414.3	11165.0	10915.7	12492.3	11862.9	11800.6
52.5°	12056.0	11451.0	11651.4	12162.3	12280.9	13153.6	12747.8	11893.4	13632.7	12373.8	12386.0
55°	11669.8	11264.0	11488.9	12617.0	13190.2	14318.3	14207.1	12174.6	14368.4	11825.0	11856.8
57.5°	11046.4	10341.2	10553.9	12486.2	13053.3	15166.6	14817.0	12848.0	14318.3	10958.4	10622.3
60°	9413.6	8957.7	9038.3	11651.4	12199.0	15409.8	15104.2	13071.7	13396.8	9912.2	9045.7
62.5°	7230.7	7168.3	7218.4	10292.3	10652.9	14705.8	14817.0	12711.1	11937.4	8671.7	7480.0
65°	5410.8	5610.0	5547.7	8677.8	9001.7	13321.0	13770.8	11726.0	10254.4	7306.4	5953.4
67.5°	3840.2	4214.2	4051.7	7156.1	7306.4	11706.4	11619.7	10017.3	8559.2	5816.6	4532.0
70°	2668.1	3110.6	2849.0	5710.2	5716.3	9482.0	9219.2	7910.2	7057.1	4507.6	3466.2
72.5°	1683.0	2113.2	1958.0	3964.9	4045.6	6938.6	6301.8	5803.1	5117.4	3422.2	2618.0
75°	1021.8	1371.3	1333.4	2505.6	2531.2	4656.7	3765.7	3927.0	3446.7	2288.0	1851.7
77.5°	723.6	891.0	904.4	1596.2	1520.4	2923.6	2088.8	2193.9	1901.8	1395.8	1041.3
80°	536.6	567.1	641.7	1021.8	972.9	1371.3	1146.4	1009.6	966.8	834.8	729.7
82.5°	398.4	405.8	442.4	536.6	554.9	641.7	655.1	655.1	611.1	579.3	548.8
85°	299.4	305.6	323.9	374.0	405.8	430.2	430.2	418.0	398.4	386.2	380.1
87.5°	261.6	255.4	255.4	273.8	293.3	305.6	311.7	293.3	287.2	273.8	273.8
90°	224.9	224.9	224.9	231.0	237.1	243.2	243.2	243.2	224.9	211.4	211.4
95°	199.2	199.2	199.2	211.4	205.3	211.4	211.4	218.8	205.3	199.2	199.2
105°	136.9	149.1	149.1	149.1	156.4	149.1	156.4	149.1	149.1	143.0	136.9
115°	112.4	112.4	112.4	106.3	112.4	106.3	112.4	118.6	106.3	106.3	106.3
125°	74.6	80.7	80.7	80.7	74.6	74.6	80.7	74.6	74.6	74.6	80.7
135°	50.1	62.3	56.2	50.1	56.2	50.1	50.1	50.1	56.2	50.1	56.2
145°	12.2	18.3	18.3	18.3	18.3	18.3	12.2	12.2	12.2	18.3	12.2
155°	12.2	12.2	18.3	12.2	12.2	6.1	6.1	12.2	6.1	12.2	6.1
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	6.1	12.2	12.2	6.1	12.2	6.1	6.1	12.2	12.2	12.2
5°	174.8	187.0	199.2	205.3	199.2	180.9	136.9	124.7	136.9	136.9
7.5°	554.9	536.6	510.9	460.8	442.4	460.8	468.1	474.2	454.7	448.6
10°	779.8	729.7	661.2	635.6	641.7	704.0	741.9	785.9	804.2	810.3
12.5°	828.7	779.8	748.0	754.1	766.3	785.9	854.3	872.7	953.3	935.0
15°	723.6	717.4	723.6	748.0	754.1	729.7	766.3	792.0	792.0	935.0
17.5°	655.1	641.7	679.6	661.2	691.8	667.3	655.1	685.7	641.7	661.2
20°	1222.2	1427.6	1465.4	1445.9	1502.1	1234.4	1458.1	1296.8	1071.9	1047.4
22.5°	1564.4	1845.6	1901.8	1950.7	1777.1	1863.9	1777.1	1590.1	1265.0	1134.2
25°	2013.0	2269.7	2318.6	2344.2	2256.2	2225.7	2125.4	1751.4	1458.1	1346.9
27.5°	2237.9	2574.0	2742.7	2774.4	2630.2	2567.9	2394.3	2057.0	1683.0	1645.1
30°	2611.9	2979.8	3072.7	3066.6	3010.3	2899.1	2668.1	2362.6	1926.2	1857.8
32.5°	3092.2	3353.8	3416.1	3516.3	3440.6	3267.0	3060.4	2630.2	2137.7	2006.9
35°	3621.4	3821.9	3814.6	3939.2	3802.3	3633.7	3440.6	2992.0	2424.9	2306.3
37.5°	4170.2	4320.6	4351.1	4232.6	4195.9	4063.9	3890.3	3410.0	2905.2	2792.8
40°	5267.8	5248.2	5217.7	5155.3	5012.3	4874.2	4737.3	4326.7	3659.3	3689.9
42.5°	7150.0	6950.8	6669.7	6663.6	6476.6	6470.4	6439.9	5959.6	5261.7	5185.9
45°	9076.2	8702.2	8209.7	8290.3	7873.6	7998.2	7923.7	7773.3	7031.4	7106.0
47.5°	11070.9	10660.2	9942.8	9986.8	9631.1	9793.7	10099.2	9918.3	9275.4	9699.6
50°	12703.8	12423.9	11507.2	11501.1	11058.7	11402.1	11900.8	11844.6	11444.9	12355.4
52.5°	13302.7	12934.8	11669.8	11955.8	10971.9	12349.3	12405.6	13153.6	12741.7	14374.6
55°	12890.8	12150.1	10497.7	11257.9	10036.9	12112.2	12142.8	13246.4	13022.8	15060.2
57.5°	11501.1	10803.2	8720.6	10179.9	8633.8	11083.1	11207.8	12510.7	12654.9	14187.6
60°	9518.7	9194.8	6912.9	8782.9	7200.1	9856.0	9799.8	11221.2	11625.8	12280.9
62.5°	7511.8	7473.9	5324.0	7174.4	5778.7	8173.0	7904.1	9369.6	9898.8	9824.2
65°	5734.7	5660.1	4001.6	5429.1	4270.4	6134.3	5748.1	6969.1	7493.4	7293.0
67.5°	4226.4	3952.7	2893.0	3876.9	2935.8	4133.6	3876.9	4687.2	5167.6	4837.6
70°	3122.8	2643.7	2006.9	2525.1	1895.7	2630.2	2487.2	2955.3	3297.6	2941.9
72.5°	2250.1	1639.0	1353.0	1477.7	1290.7	1590.1	1614.6	1832.1	2038.7	1857.8
75°	1445.9	1035.2	959.4	959.4	953.3	1047.4	1134.2	1216.1	1333.4	1284.6
77.5°	884.9	785.9	729.7	754.1	741.9	785.9	842.1	878.8	941.1	910.6
80°	685.7	647.8	592.8	611.1	605.0	641.7	641.7	655.1	679.6	661.2
82.5°	517.0	486.4	460.8	468.1	486.4	492.6	480.3	486.4	474.2	460.8
85°	374.0	361.8	361.8	374.0	380.1	380.1	367.9	367.9	361.8	349.6
87.5°	281.1	281.1	287.2	293.3	293.3	287.2	281.1	273.8	267.7	261.6
90°	218.8	218.8	224.9	231.0	237.1	237.1	224.9	224.9	224.9	224.9
95°	199.2	199.2	211.4	211.4	211.4	211.4	211.4	199.2	205.3	199.2
105°	143.0	143.0	149.1	149.1	149.1	143.0	143.0	136.9	136.9	136.9
115°	112.4	106.3	112.4	112.4	112.4	112.4	112.4	100.2	100.2	86.8
125°	74.6	86.8	86.8	80.7	94.1	74.6	80.7	74.6	68.4	74.6
135°	50.1	62.3	56.2	56.2	56.2	50.1	50.1	44.0	44.0	37.9
145°	12.2	12.2	18.3	18.3	12.2	12.2	18.3	12.2	12.2	12.2
155°	6.1	0.0	12.2	6.1	12.2	12.2	12.2	6.1	6.1	0.0
165°	6.1	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°	6.1	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)