

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: 769251_350MP

Luminaire Tested: **ACN35PXX3C1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769251_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN35PXX3C1
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE III CUTOFF WITH CAGE
W/SPECULAR CHIMNEY AND CAGE
Light Source: 350 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 21799.6 lumens
Efficiency: 58.9%
Efficacy: 54.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B4 - U3 - G4

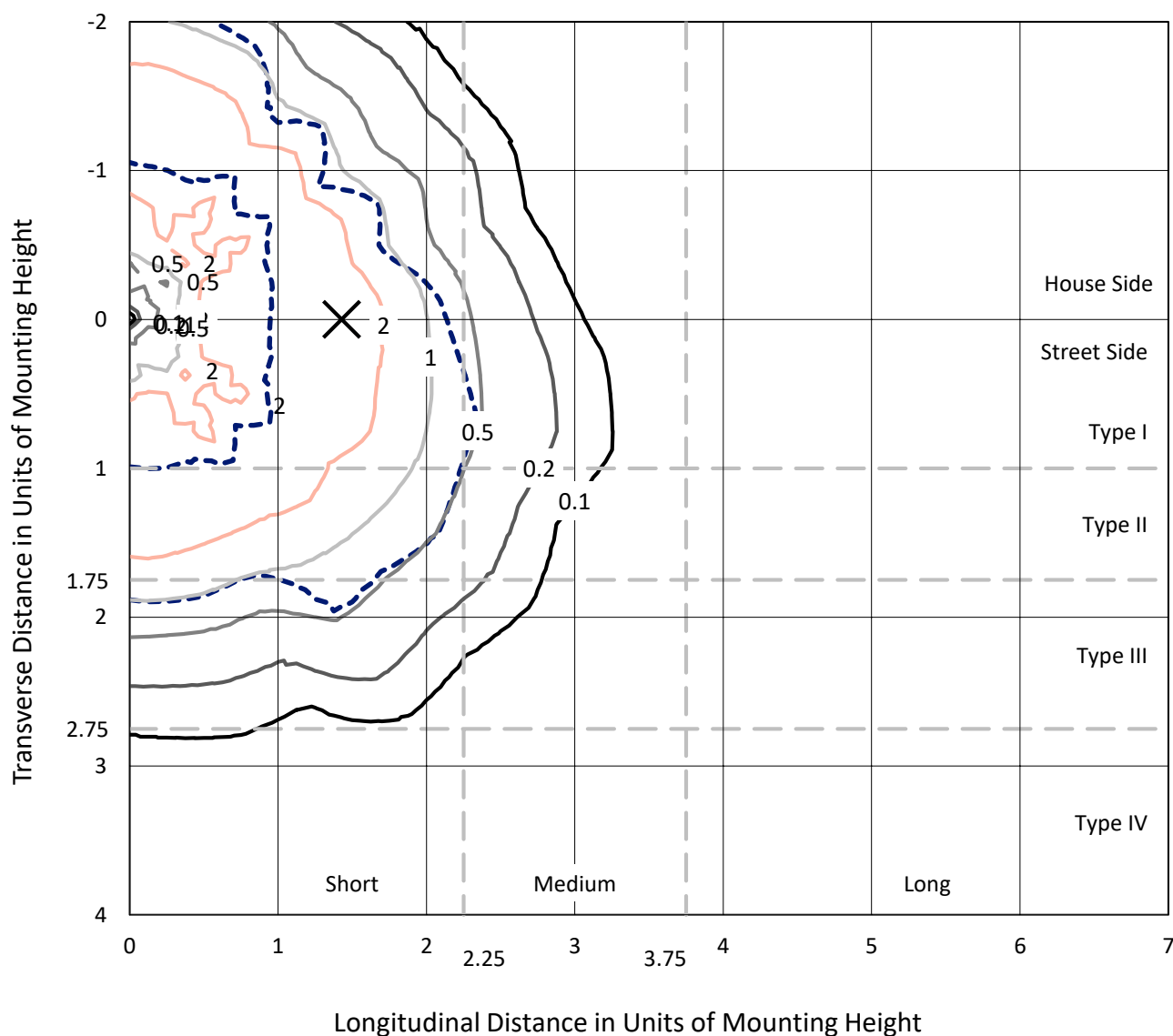
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

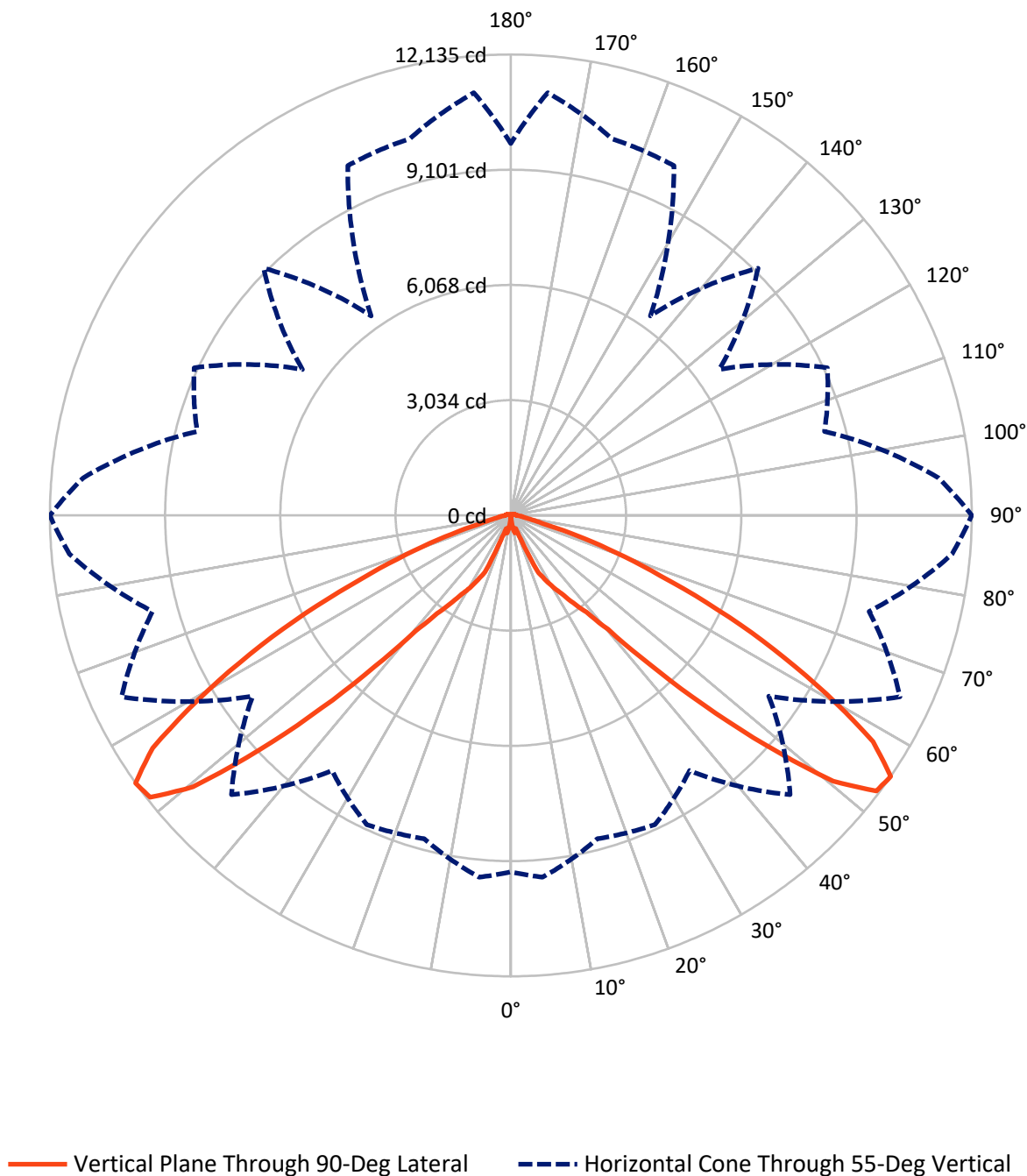
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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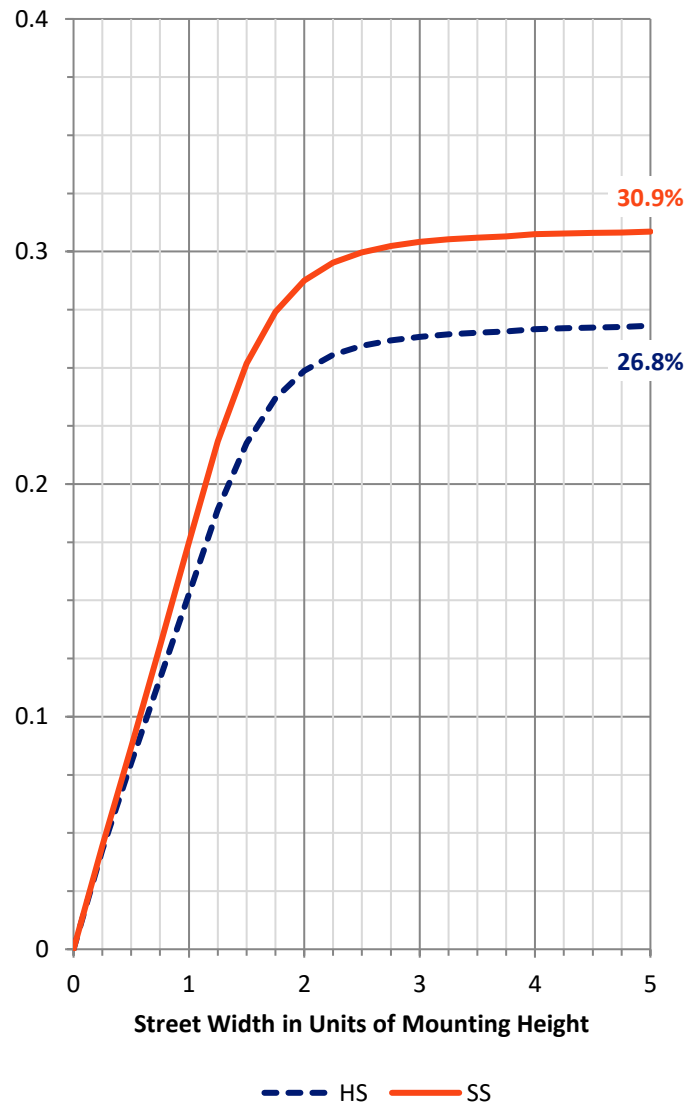
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9991.7	165.8	10157.5
	% Lamp	27.0	0.4	27.5
Street Side	Lumens	11470.0	172.2	11642.2
	% Lamp	31.0	0.5	31.5
Total	Lumens	21461.6	338.0	21799.6
	% Lamp	58.0	0.9	58.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.8	0.1	0.0
10°-20°	122.8	0.6	0.3
20°-30°	604.9	2.8	1.6
30°-40°	1506.9	6.9	4.1
40°-50°	4374.2	20.1	11.8
50°-60°	8045.0	36.9	21.7
60°-70°	5335.9	24.5	14.4
70°-80°	1219.0	5.6	3.3
80°-90°	236.0	1.1	0.6
90°-100°	130.7	0.6	0.4
100°-110°	94.8	0.4	0.3
110°-120°	63.7	0.3	0.2
120°-130°	35.3	0.2	0.1
130°-140°	13.4	0.1	0.0
140°-150°	2.8	0.0	0.0
150°-160°	0.3	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	21461.6	98.4	58.0
0°-180°	21799.6	100.0	58.9

Coefficient of Utilization

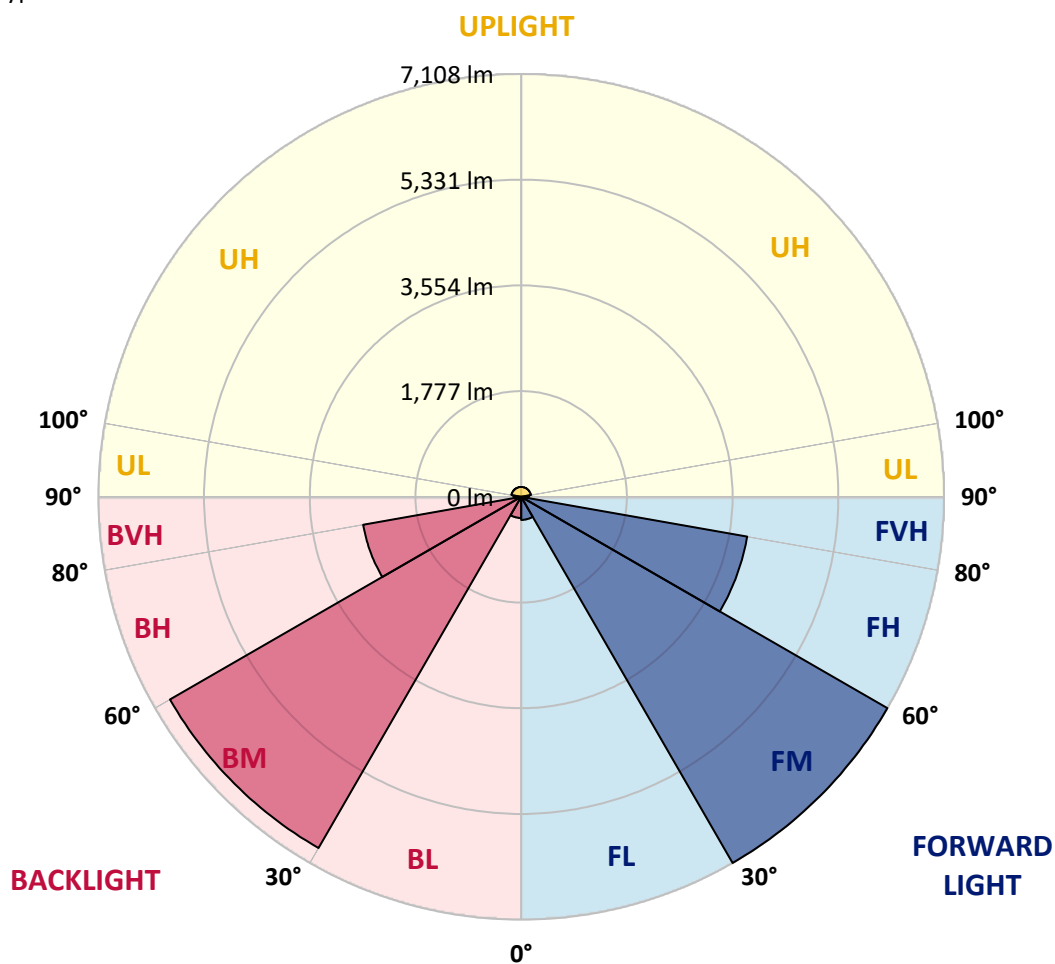


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.2	1.0			
FM	(30°-60°)	7108.3	19.2			
FH	(60°-80°)	3857.8	10.4			G2/5000
FVH	(80°-90°)	115.7	0.3			G2/225
BL	(0°-30°)	356.3	1.0	B1/500		
BM	(30°-60°)	6817.9	18.4	B4/8500		
BH	(60°-80°)	2697.2	7.3	B4/5000		G4/5000
BVH	(80°-90°)	120.3	0.3			G2/225
UL	(90°-100°)	130.7	0.4		U3/500	
UH	(100°-180°)	165.8	0.4		U3/500	
Trapped Light		15200.4	41.1			

BUG Rating: B4-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°	10.3	10.3	0.0	5.1	0.0	5.1	0.0	0.0	5.1	5.1	5.1
5°	31.9	37.0	37.0	26.7	15.4	10.3	20.6	20.6	20.6	20.6	26.7
7.5°	293.9	304.2	277.5	246.7	241.5	241.5	246.7	225.1	246.7	262.1	262.1
10°	409.1	393.6	382.3	424.5	424.5	466.6	451.2	429.6	409.1	382.3	372.1
12.5°	492.3	498.5	566.3	608.4	561.2	581.7	592.0	581.7	519.0	498.5	476.9
15°	544.7	550.9	539.6	524.2	544.7	482.0	508.7	503.6	498.5	476.9	456.3
17.5°	451.2	461.5	434.7	429.6	446.1	414.2	414.2	366.9	361.8	377.2	377.2
20°	409.1	409.1	409.1	403.9	403.9	377.2	346.4	319.6	324.8	346.4	366.9
22.5°	586.9	1158.3	1337.1	1352.6	754.4	409.1	796.5	1347.4	1347.4	1247.7	681.4
25°	1520.1	1514.9	1635.2	1656.8	885.9	446.1	1053.5	1646.5	1667.1	1698.9	1635.2
27.5°	1792.4	1751.3	1913.7	1949.7	870.5	1966.1	1027.8	2002.1	1944.6	1991.8	1892.1
30°	1908.6	1929.1	2081.2	2170.7	843.8	2526.3	928.1	2216.9	2164.5	2196.4	2191.2
32.5°	2233.4	2180.9	2353.6	2437.9	875.7	2715.4	865.4	2426.6	2458.4	2443.0	2443.0
35°	2400.9	2411.2	2590.0	2652.7	948.6	2956.9	933.2	2747.2	2793.5	2815.1	2830.5
37.5°	2735.9	2720.5	2840.8	2987.7	1111.0	3307.4	1132.6	3155.3	3176.9	3276.6	3234.4
40°	3386.5	3364.9	3407.1	3601.3	1442.0	3848.0	1483.1	3758.6	3858.3	4093.6	3941.5
42.5°	4581.8	4497.6	4482.1	4639.4	2175.8	4911.7	2138.8	4827.5	4953.9	5446.2	5346.5
45°	6196.5	5954.9	5619.9	5782.3	3381.4	5923.1	3166.6	6164.6	6117.3	7145.1	7108.1
47.5°	7695.0	7574.7	6835.7	7045.4	4754.5	7128.7	4622.9	7821.4	7443.2	8947.8	9047.5
50°	8953.0	8953.0	8014.6	8151.3	6039.2	8324.0	6217.0	9493.6	8832.7	10515.2	11003.4
52.5°	9529.6	9634.4	8665.2	8837.9	7207.8	9262.3	7559.3	10479.2	9514.1	11443.3	12051.7
55°	9383.6	9561.4	8812.2	8979.7	8203.7	10400.1	8293.1	11306.6	9765.9	11663.2	12135.0
57.5°	8460.7	8864.6	8408.2	8329.1	8727.9	10625.2	8864.6	11443.3	9948.9	11008.5	11243.9
60°	7317.8	7679.6	7559.3	7365.1	8240.7	9671.4	8995.1	11091.8	9802.9	9514.1	9546.0
62.5°	5765.8	5923.1	6101.9	5808.0	7390.7	8329.1	8612.8	9938.6	8990.0	7968.4	7774.1
65°	4005.2	4010.4	4193.3	4104.9	6663.1	7359.9	8088.6	8507.9	7642.6	6431.8	5986.8
67.5°	2421.4	2463.6	2700.0	2683.5	6149.2	6002.2	6730.9	6232.4	6027.9	4806.9	4250.9
70°	1667.1	1792.4	2028.8	1876.7	4629.1	4177.9	4906.6	4403.0	4686.7	3569.5	2935.3
72.5°	1237.4	1085.3	1373.1	1226.1	2815.1	2416.3	3035.0	2338.2	3302.2	2537.6	1814.0
75°	953.8	728.7	948.6	728.7	1001.1	1153.2	1499.5	975.4	1777.0	1105.9	880.8
77.5°	482.0	409.1	456.3	424.5	539.6	561.2	813.0	519.0	922.9	660.9	592.0
80°	293.9	293.9	314.5	288.8	262.1	309.4	341.2	356.6	513.9	414.2	393.6
82.5°	230.2	230.2	241.5	225.1	194.2	204.5	209.7	272.4	335.1	324.8	309.4
85°	209.7	214.8	214.8	209.7	152.1	167.5	162.4	214.8	236.4	230.2	272.4
87.5°	177.8	177.8	184.0	162.4	120.2	125.4	125.4	162.4	189.1	172.7	184.0
90°	157.2	157.2	157.2	147.0	115.1	115.1	115.1	147.0	152.1	157.2	152.1
95°	136.7	136.7	136.7	125.4	94.6	99.7	99.7	125.4	136.7	136.7	131.6
105°	104.8	104.8	99.7	94.6	79.1	67.8	73.0	89.4	94.6	99.7	99.7
115°	84.3	79.1	73.0	73.0	57.6	57.6	47.3	57.6	79.1	73.0	79.1
125°	52.4	52.4	42.1	42.1	31.9	26.7	31.9	37.0	47.3	42.1	47.3
135°	20.6	20.6	20.6	15.4	10.3	10.3	10.3	10.3	15.4	15.4	15.4
145°	0.0	0.0	0.0	5.1	0.0	5.1	0.0	0.0	0.0	5.1	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
165°	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	5.1	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	5.1	0.0	0.0	0.0	0.0	0.0	0.0	5.1	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°	0.0	0.0	0.0	0.0	5.1	5.1	5.1	5.1	0.0	0.0
5°	15.4	26.7	26.7	20.6	15.4	20.6	20.6	20.6	15.4	10.3
7.5°	251.8	236.4	214.8	204.5	209.7	194.2	184.0	194.2	209.7	209.7
10°	372.1	372.1	324.8	293.9	314.5	361.8	366.9	356.6	324.8	314.5
12.5°	466.6	446.1	429.6	429.6	429.6	466.6	492.3	476.9	471.7	461.5
15°	456.3	434.7	439.9	476.9	456.3	466.6	393.6	471.7	524.2	524.2
17.5°	366.9	377.2	377.2	414.2	361.8	409.1	341.2	341.2	398.8	419.3
20°	351.5	351.5	329.9	377.2	346.4	366.9	299.1	314.5	299.1	293.9
22.5°	1185.0	1342.3	1284.7	786.2	341.2	728.7	1100.8	990.8	749.2	524.2
25°	1661.9	1745.2	1667.1	917.8	403.9	943.5	1462.5	1342.3	1105.9	1142.9
27.5°	1908.6	2039.1	1997.0	870.5	1861.3	1053.5	1698.9	1619.8	1289.9	1268.3
30°	2191.2	2333.1	2327.9	901.4	2395.7	1153.2	2065.8	1892.1	1483.1	1435.8
32.5°	2468.7	2583.8	2642.4	922.9	2615.7	1163.4	2290.9	2143.9	1635.2	1562.2
35°	2793.5	2930.2	2940.5	985.6	2977.5	1210.7	2668.1	2348.5	1902.4	1792.4
37.5°	3182.0	3307.4	3202.6	1185.0	3249.8	1305.3	2950.7	2652.7	2196.4	2096.7
40°	3968.2	3905.6	3858.3	1546.8	3795.6	1587.9	3491.4	3150.1	2772.9	2558.1
42.5°	5315.7	4979.6	4953.9	2269.3	4812.1	2253.9	4717.5	4193.3	3873.7	3638.3
45°	6835.7	6117.3	6264.3	3449.2	5960.1	3260.1	5954.9	5368.1	5288.9	5032.0
47.5°	8440.1	7454.5	7652.8	5053.6	7317.8	4681.5	7548.0	7150.2	7192.4	6835.7
50°	10237.7	8560.4	9010.5	6353.7	8607.6	5917.9	8947.8	8702.2	9157.5	8282.9
52.5°	11181.2	9021.8	9634.4	6851.2	9393.9	6437.0	9902.6	9844.1	10499.8	9289.1
55°	11306.6	8550.1	9194.5	6699.1	9204.8	6411.3	10158.6	10269.6	11170.9	9791.6
57.5°	10290.1	7380.5	8224.3	5944.7	8261.3	6007.4	9399.0	9808.1	10851.3	10065.0
60°	8917.0	6049.5	6961.1	5032.0	6998.1	5294.1	8335.3	8743.3	9802.9	9728.9
62.5°	7270.5	4764.8	5567.5	3973.4	5063.9	4434.9	6898.4	7344.5	8340.4	8617.9
65°	5535.6	3533.5	4314.6	3082.3	3695.9	3349.5	5084.4	5572.6	6227.3	6636.4
67.5°	3821.3	2485.2	3066.9	2353.6	2663.0	2301.2	3003.2	3701.0	4245.8	4592.1
70°	2411.2	1599.2	1902.4	1540.6	1557.1	1368.0	1782.2	2363.9	2809.9	3029.9
72.5°	1352.6	948.6	1011.3	843.8	806.8	781.1	1068.9	1325.8	1619.8	1803.7
75°	806.8	649.6	639.3	492.3	487.2	539.6	681.4	885.9	1053.5	1142.9
77.5°	539.6	461.5	429.6	319.6	335.1	387.5	492.3	639.3	713.3	754.4
80°	398.8	372.1	346.4	241.5	251.8	288.8	377.2	446.1	471.7	482.0
82.5°	309.4	293.9	277.5	189.1	189.1	204.5	299.1	329.9	346.4	356.6
85°	241.5	236.4	214.8	157.2	147.0	177.8	225.1	251.8	262.1	272.4
87.5°	172.7	172.7	157.2	115.1	110.0	125.4	157.2	184.0	172.7	177.8
90°	152.1	157.2	141.8	104.8	99.7	110.0	141.8	162.4	157.2	147.0
95°	136.7	136.7	120.2	89.4	89.4	89.4	120.2	136.7	136.7	125.4
105°	99.7	104.8	89.4	62.7	73.0	62.7	84.3	94.6	94.6	94.6
115°	79.1	73.0	73.0	52.4	52.4	52.4	62.7	67.8	62.7	62.7
125°	47.3	52.4	42.1	26.7	26.7	31.9	37.0	37.0	42.1	42.1
135°	20.6	20.6	15.4	5.1	5.1	10.3	15.4	20.6	20.6	20.6
145°	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	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)