

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_350MP

Luminaire Tested: **ACN35PXX5C1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769252_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN35PXX5C1
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE V 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: 22693.1 lumens
Efficiency: 61.3%
Efficacy: 57.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B4 - U3 - G2

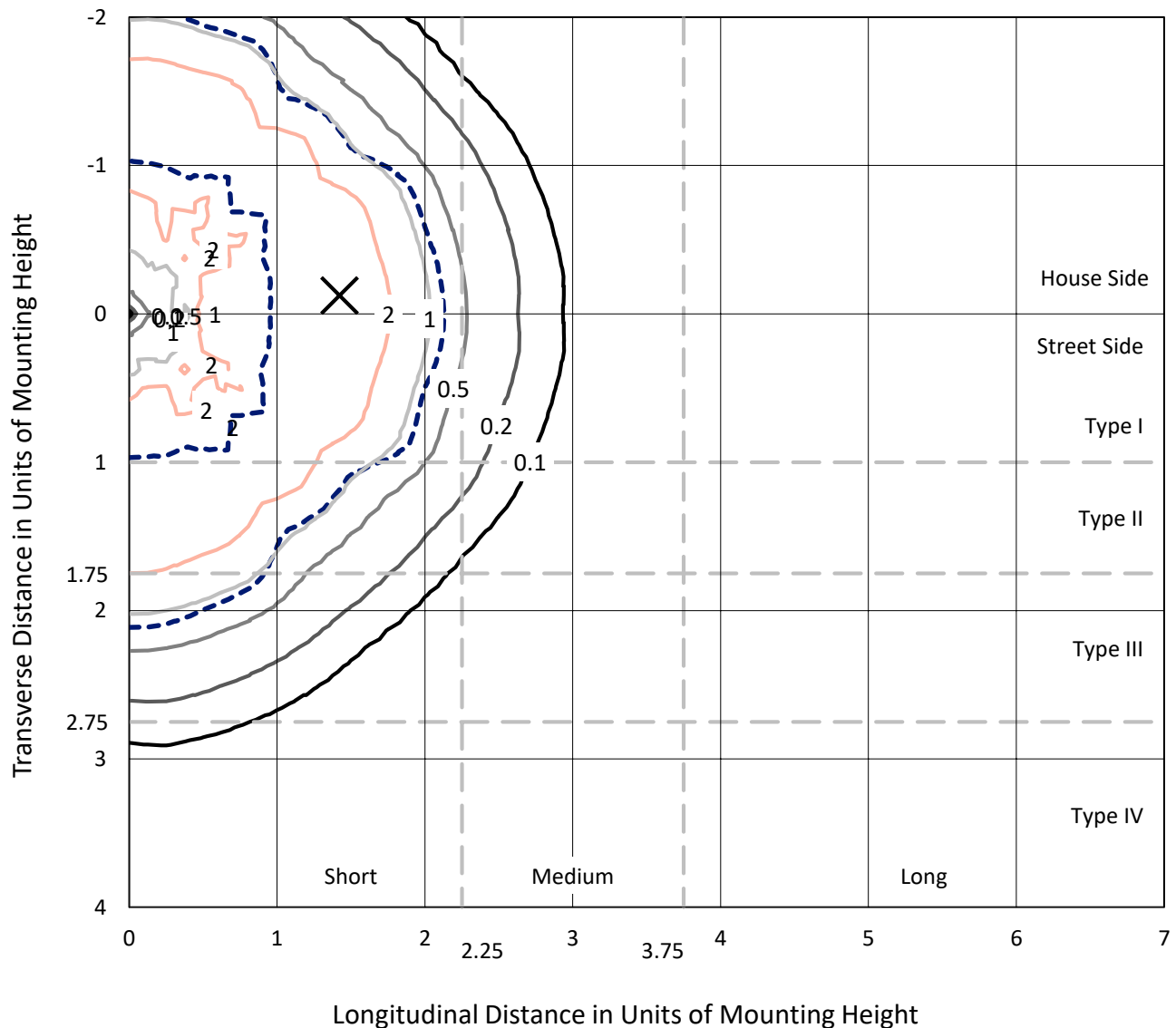
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

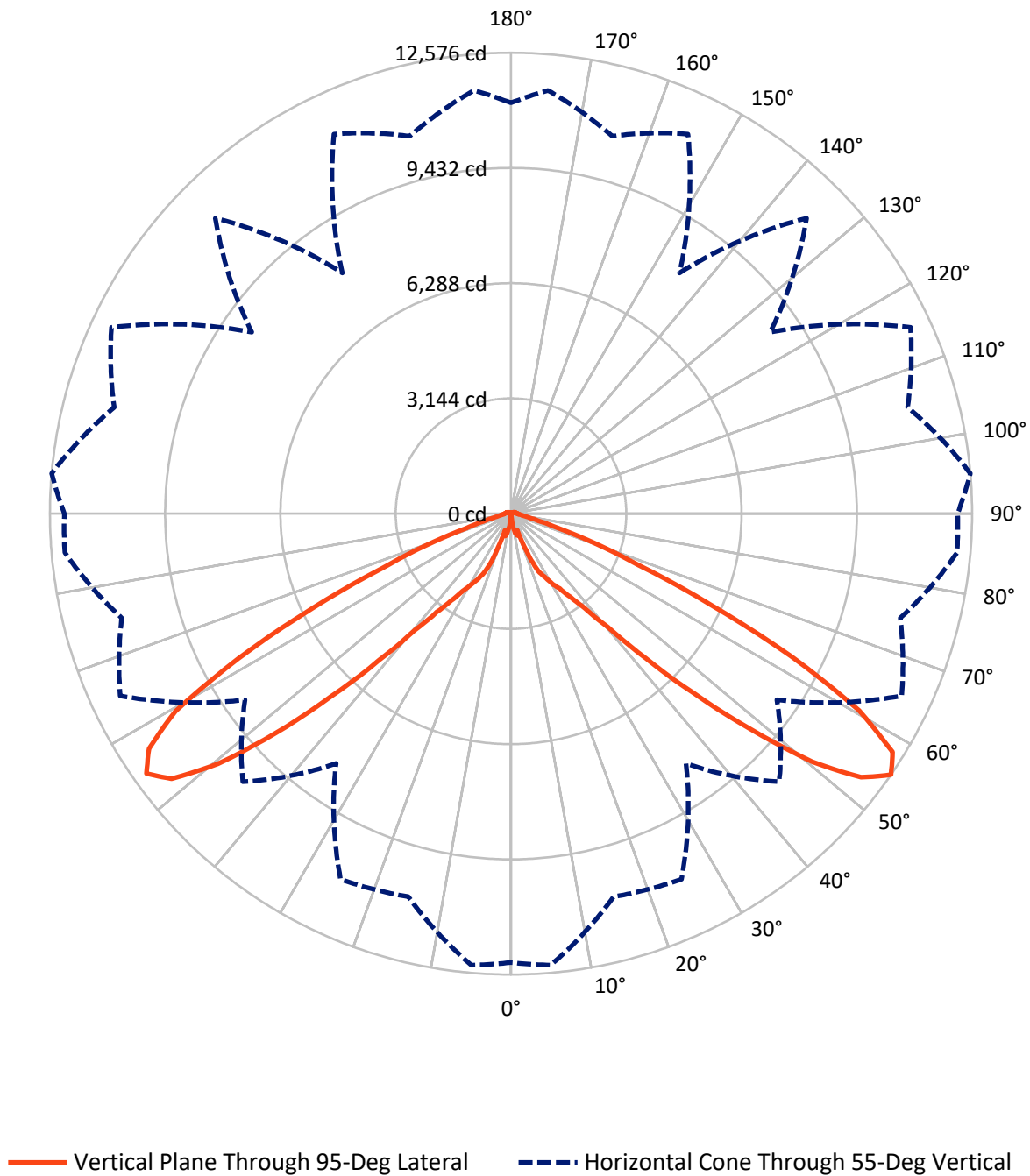
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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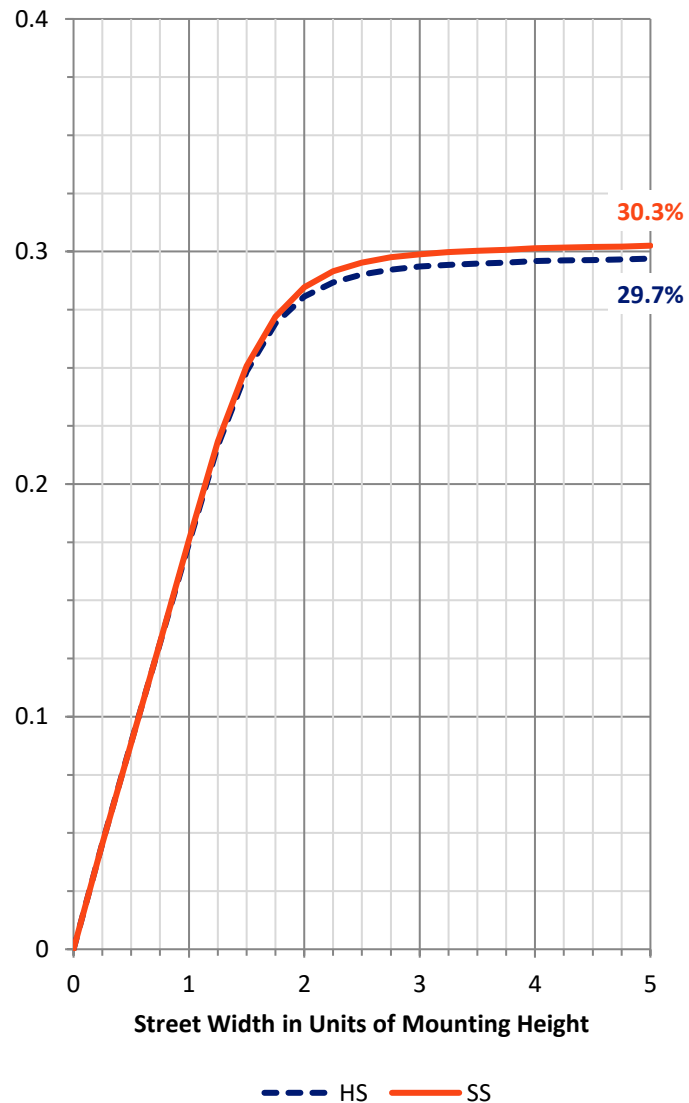
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11061.7	190.0	11251.8
	% Lamp	29.9	0.5	30.4
Street Side	Lumens	11245.5	195.8	11441.4
	% Lamp	30.4	0.5	30.9
Total	Lumens	22307.3	385.9	22693.1
	% Lamp	60.3	1.0	61.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.0	0.1	0.1
10°-20°	154.9	0.7	0.4
20°-30°	623.8	2.7	1.7
30°-40°	1528.6	6.7	4.1
40°-50°	4762.5	21.0	12.9
50°-60°	9112.2	40.2	24.6
60°-70°	5065.8	22.3	13.7
70°-80°	824.0	3.6	2.2
80°-90°	213.4	0.9	0.6
90°-100°	140.1	0.6	0.4
100°-110°	107.8	0.5	0.3
110°-120°	73.9	0.3	0.2
120°-130°	41.8	0.2	0.1
130°-140°	18.2	0.1	0.0
140°-150°	5.1	0.0	0.0
150°-160°	0.7	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	22307.3	98.3	60.3
0°-180°	22693.1	100.0	61.3

Coefficient of Utilization

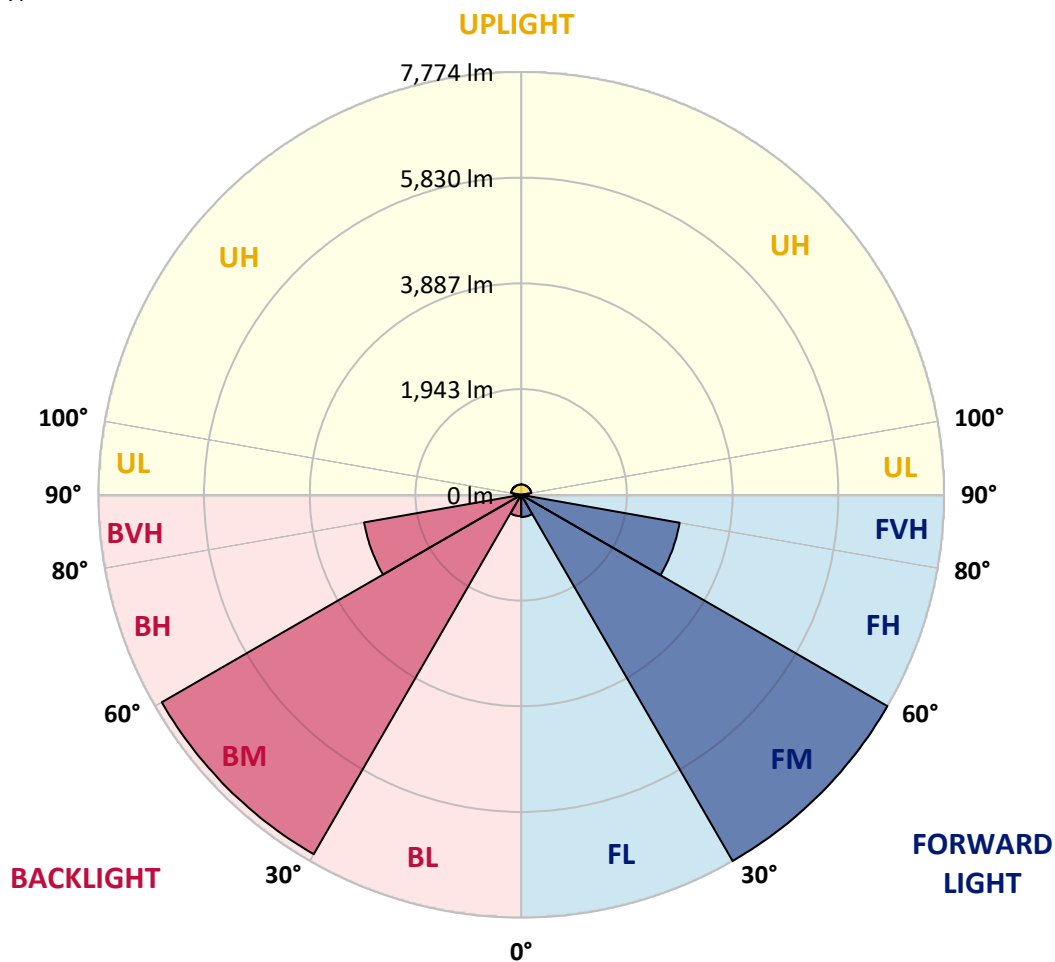


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	407.3	1.1			
FM	(30°-60°)	7773.7	21.0			
FH	(60°-80°)	2957.7	8.0			G2/5000
FVH	(80°-90°)	106.8	0.3			G2/225
BL	(0°-30°)	393.3	1.1	B1/500		
BM	(30°-60°)	7629.7	20.6	B4/8500		
BH	(60°-80°)	2932.1	7.9	B4/5000		G2/5000
BVH	(80°-90°)	106.6	0.3			G2/225
UL	(90°-100°)	140.1	0.4		U3/500	
UH	(100°-180°)	190.0	0.5		U3/500	
Trapped Light		14306.9	38.7			

BUG Rating: B4-U3-G2
Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
2.5°	10.3	10.3	15.4	10.3	15.4	10.3	10.3	10.3	10.3	10.3	15.4
5°	73.0	62.7	67.8	57.6	37.0	31.9	31.9	37.0	47.3	47.3	52.4
7.5°	324.8	324.8	335.1	319.6	293.9	299.1	293.9	309.4	324.8	335.1	341.2
10°	429.6	419.3	456.3	487.2	487.2	482.0	503.6	508.7	503.6	456.3	434.7
12.5°	451.2	482.0	592.0	649.6	634.1	629.0	649.6	655.7	613.6	571.4	544.7
15°	544.7	529.3	550.9	561.2	592.0	623.9	597.1	566.3	603.3	629.0	613.6
17.5°	461.5	471.7	451.2	476.9	492.3	498.5	534.4	476.9	487.2	508.7	524.2
20°	439.9	439.9	409.1	424.5	446.1	456.3	487.2	429.6	429.6	476.9	476.9
22.5°	586.9	1168.6	1305.3	1447.1	838.7	456.3	854.1	1430.7	1410.1	1383.4	733.8
25°	1499.5	1509.8	1562.2	1656.8	1011.3	466.6	1038.1	1692.7	1677.3	1771.9	1839.7
27.5°	1740.0	1756.5	1856.2	1986.7	1080.2	1949.7	980.5	1939.4	1949.7	2013.4	2143.9
30°	1961.0	2007.2	2101.8	2206.6	980.5	2385.5	896.2	2164.5	2133.7	2238.5	2343.3
32.5°	2149.1	2191.2	2306.3	2510.9	958.9	2752.4	901.4	2537.6	2421.4	2490.3	2620.8
35°	2421.4	2473.9	2553.0	2762.7	1048.3	3077.2	1006.2	2904.5	2783.2	2877.8	2898.3
37.5°	2852.1	2935.3	2967.2	3213.9	1305.3	3475.9	1278.6	3292.0	3234.4	3364.9	3307.4
40°	3690.7	3758.6	3685.6	3963.1	1850.0	4198.5	1850.0	4073.1	3978.5	4110.1	4005.2
42.5°	5095.7	5163.6	4916.9	5200.6	2725.7	5404.1	2752.4	5362.9	5210.8	5393.8	5373.2
45°	6793.6	6809.0	6269.4	6583.9	3988.8	6568.5	4062.8	6825.5	6594.2	6982.7	7030.0
47.5°	8869.7	8853.3	7973.5	8335.3	5472.9	7983.8	5588.0	8565.5	8078.3	8795.7	8807.0
50°	10682.7	10709.4	9483.3	9860.5	6861.4	9252.1	7113.2	10222.3	9503.9	10504.9	10547.1
52.5°	11847.2	11920.2	10467.9	10772.1	7816.2	10117.4	8230.4	11422.7	10525.5	11747.5	11747.5
55°	12244.9	12366.2	10819.4	11003.4	8318.8	10342.5	8853.3	11757.8	10992.1	12214.1	12182.2
57.5°	11647.8	11857.5	10489.5	10342.5	8014.6	9745.4	8528.5	11265.5	10657.0	11773.2	11742.4
60°	10400.1	10457.6	9393.9	9084.5	6773.1	7726.8	7192.4	10148.3	9546.0	10625.2	10525.5
62.5°	8324.0	8381.5	7569.6	7202.7	5189.2	5441.1	5483.2	8056.7	7542.9	8423.7	8481.2
65°	5870.7	5902.5	5273.5	4943.6	3690.7	3685.6	3952.8	5613.7	5320.8	6017.6	6027.9
67.5°	3585.9	3658.9	3255.0	2950.7	2583.8	2610.6	2788.4	3417.4	3344.4	3816.1	3748.3
70°	2138.8	2301.2	2071.0	1861.3	1577.6	1599.2	1704.1	2091.5	2211.8	2485.2	2306.3
72.5°	1185.0	1215.9	1121.3	1038.1	891.1	880.8	891.1	1111.0	1185.0	1295.0	1331.0
75°	681.4	708.1	681.4	634.1	519.0	513.9	498.5	666.0	723.6	781.1	813.0
77.5°	419.3	439.9	434.7	403.9	324.8	319.6	293.9	403.9	461.5	487.2	503.6
80°	293.9	304.2	304.2	288.8	225.1	219.9	209.7	282.6	329.9	346.4	335.1
82.5°	230.2	236.4	241.5	225.1	177.8	177.8	177.8	236.4	262.1	272.4	282.6
85°	199.4	199.4	204.5	189.1	147.0	147.0	152.1	194.2	214.8	225.1	256.9
87.5°	177.8	172.7	177.8	162.4	131.6	131.6	131.6	167.5	189.1	189.1	194.2
90°	147.0	157.2	157.2	147.0	120.2	120.2	120.2	152.1	167.5	172.7	177.8
95°	136.7	136.7	136.7	131.6	110.0	104.8	110.0	136.7	147.0	157.2	147.0
105°	115.1	110.0	115.1	104.8	89.4	84.3	89.4	110.0	115.1	120.2	120.2
115°	84.3	89.4	84.3	73.0	57.6	57.6	67.8	79.1	89.4	89.4	94.6
125°	52.4	52.4	52.4	47.3	31.9	31.9	37.0	42.1	57.6	52.4	57.6
135°	31.9	26.7	31.9	20.6	15.4	10.3	15.4	20.6	26.7	31.9	31.9
145°	10.3	10.3	10.3	0.0	0.0	0.0	0.0	10.3	5.1	5.1	15.4
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°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
2.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
5°	52.4	42.1	31.9	20.6	15.4	10.3	10.3	15.4	15.4	10.3
7.5°	329.9	319.6	293.9	282.6	277.5	272.4	277.5	277.5	299.1	314.5
10°	446.1	498.5	498.5	471.7	498.5	508.7	503.6	466.6	476.9	482.0
12.5°	561.2	603.3	696.8	686.6	660.9	686.6	660.9	660.9	597.1	576.6
15°	613.6	592.0	597.1	618.7	623.9	623.9	603.3	649.6	649.6	691.7
17.5°	519.0	492.3	498.5	534.4	529.3	561.2	519.0	550.9	623.9	556.0
20°	471.7	451.2	429.6	498.5	439.9	487.2	429.6	456.3	503.6	471.7
22.5°	1289.9	1368.0	1357.7	854.1	419.3	770.8	1200.4	1085.3	891.1	702.0
25°	1751.3	1719.5	1677.3	1063.8	498.5	1053.5	1577.6	1347.4	1226.1	1153.2
27.5°	1949.7	1871.6	2028.8	948.6	1808.9	1116.2	1834.6	1525.2	1295.0	1300.1
30°	2216.9	2186.1	2290.9	875.7	2285.8	1232.3	2175.8	1761.6	1462.5	1425.5
32.5°	2437.9	2406.0	2526.3	896.2	2500.6	1215.9	2327.9	2028.8	1646.5	1572.5
35°	2793.5	2710.2	2835.6	948.6	2882.9	1173.7	2620.8	2243.6	1829.4	1729.7
37.5°	3281.7	3129.6	3213.9	1179.9	3249.8	1310.4	2872.6	2553.0	2106.9	2002.1
40°	4073.1	3774.0	3931.2	1604.4	3963.1	1656.8	3548.9	3182.0	2783.2	2694.8
42.5°	5393.8	5001.2	5126.6	2411.2	5263.2	2521.1	4849.1	4377.3	4098.8	3889.1
45°	6998.1	6332.1	6536.7	3638.3	6589.1	3695.9	6174.9	5740.1	5682.6	5545.9
47.5°	8775.2	8093.7	8219.1	5331.1	8203.7	5346.5	8046.5	7532.6	7674.4	7422.6
50°	10646.7	9666.2	9991.0	6982.7	9886.2	6783.3	9771.1	9162.6	9624.1	9215.1
52.5°	11952.0	10851.3	11333.3	8166.7	10951.0	7721.7	10919.1	10310.7	11029.1	10630.3
55°	12575.9	11201.7	12025.0	8628.2	11401.1	8014.6	11427.9	10662.2	11590.2	11207.9
57.5°	12271.7	10986.9	11695.1	8266.4	10625.2	7616.9	11076.4	10415.5	11270.6	10956.1
60°	10908.8	10017.7	10462.8	7212.9	8271.6	6615.8	9823.5	9362.0	9928.3	9645.7
62.5°	8575.8	7962.2	8088.6	5777.1	5765.8	5221.1	7402.1	7155.4	7794.7	7475.0
65°	5965.2	5598.3	5498.6	4225.2	3936.4	3805.9	4827.5	4675.4	5331.1	5011.4
67.5°	3753.4	3486.2	3286.8	2862.4	2663.0	2558.1	2992.9	2998.0	3469.8	3219.0
70°	2463.6	2285.8	2054.5	1594.1	1551.9	1430.7	2018.6	2007.2	2175.8	1971.3
72.5°	1284.7	1121.3	995.9	770.8	838.7	760.6	980.5	980.5	1053.5	975.4
75°	776.0	666.0	581.7	434.7	498.5	466.6	576.6	576.6	618.7	597.1
77.5°	482.0	434.7	382.3	272.4	329.9	309.4	382.3	403.9	414.2	409.1
80°	351.5	341.2	293.9	199.4	225.1	225.1	293.9	304.2	299.1	304.2
82.5°	282.6	272.4	246.7	157.2	172.7	172.7	241.5	246.7	236.4	251.8
85°	219.9	219.9	194.2	147.0	147.0	147.0	189.1	194.2	204.5	219.9
87.5°	189.1	184.0	162.4	125.4	125.4	125.4	162.4	172.7	172.7	189.1
90°	172.7	162.4	157.2	115.1	115.1	115.1	141.8	152.1	157.2	147.0
95°	147.0	152.1	131.6	99.7	99.7	94.6	125.4	136.7	136.7	125.4
105°	120.2	120.2	110.0	84.3	79.1	79.1	104.8	104.8	104.8	104.8
115°	89.4	89.4	84.3	57.6	62.7	57.6	73.0	73.0	84.3	73.0
125°	57.6	52.4	47.3	31.9	31.9	31.9	42.1	47.3	52.4	52.4
135°	26.7	31.9	20.6	15.4	10.3	15.4	20.6	26.7	26.7	31.9
145°	5.1	10.3	5.1	0.0	5.1	5.1	0.0	10.3	5.1	10.3
155°	0.0	5.1	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)