

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_320MP

Luminaire Tested: **ACN32PXX5C1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769252_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN32PXX5C1
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE V CUTOFF WITH CAGE
W/SPECULAR CHIMNEY AND CAGE
Light Source: 320 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 20239.8 lumens
Efficiency: 61.3%
Efficacy: 57.8 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B4 - U3 - G2

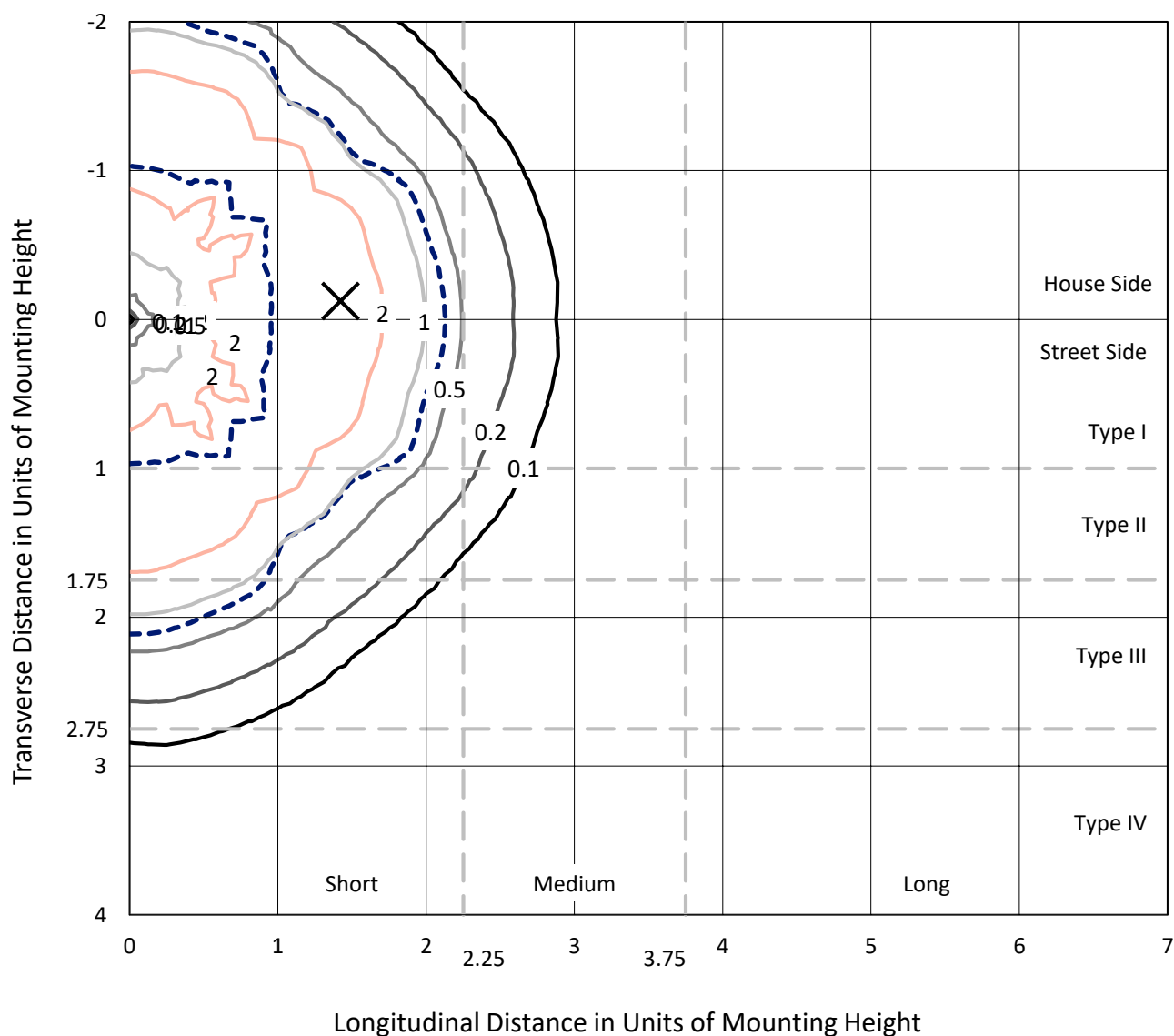
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

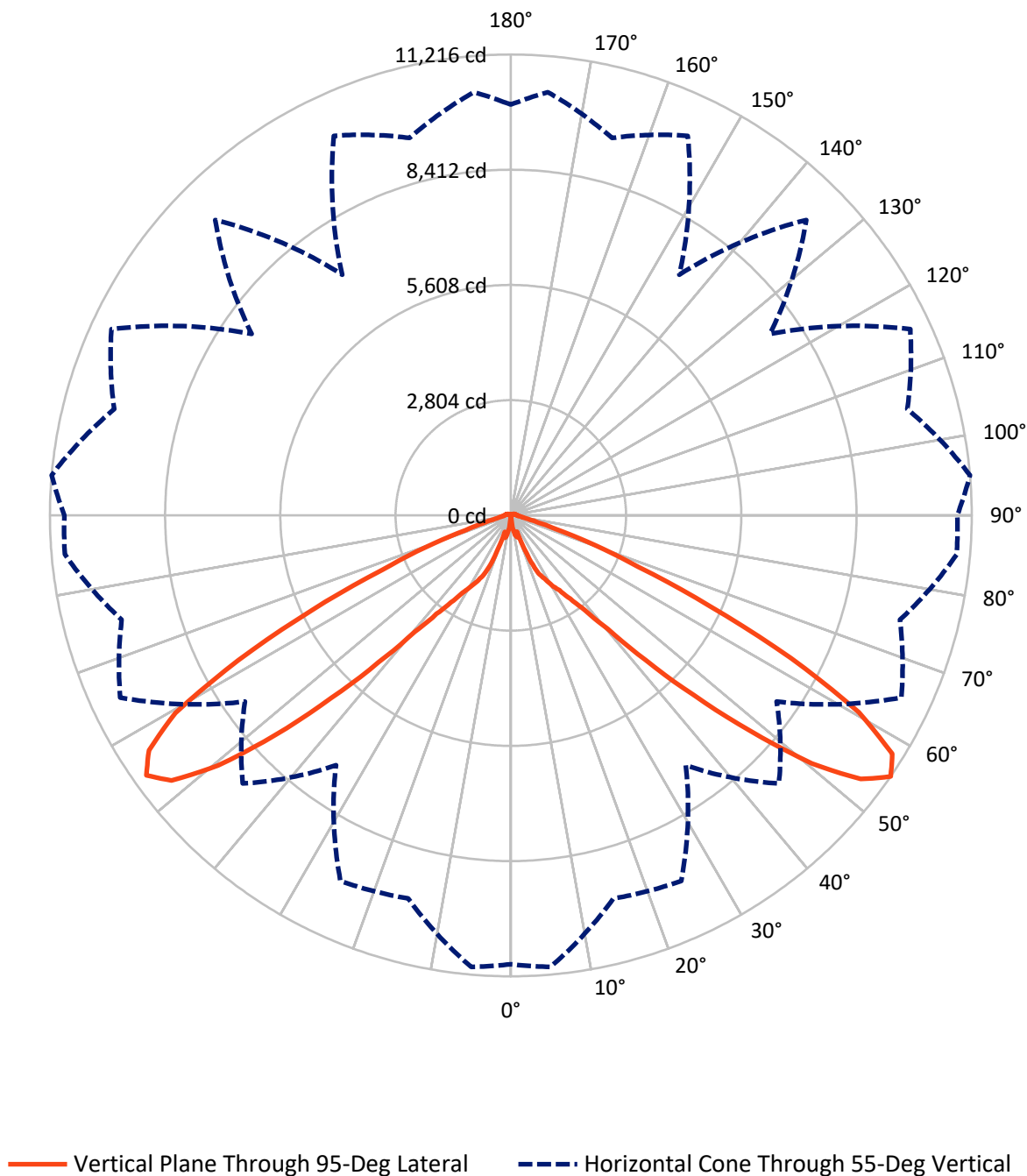
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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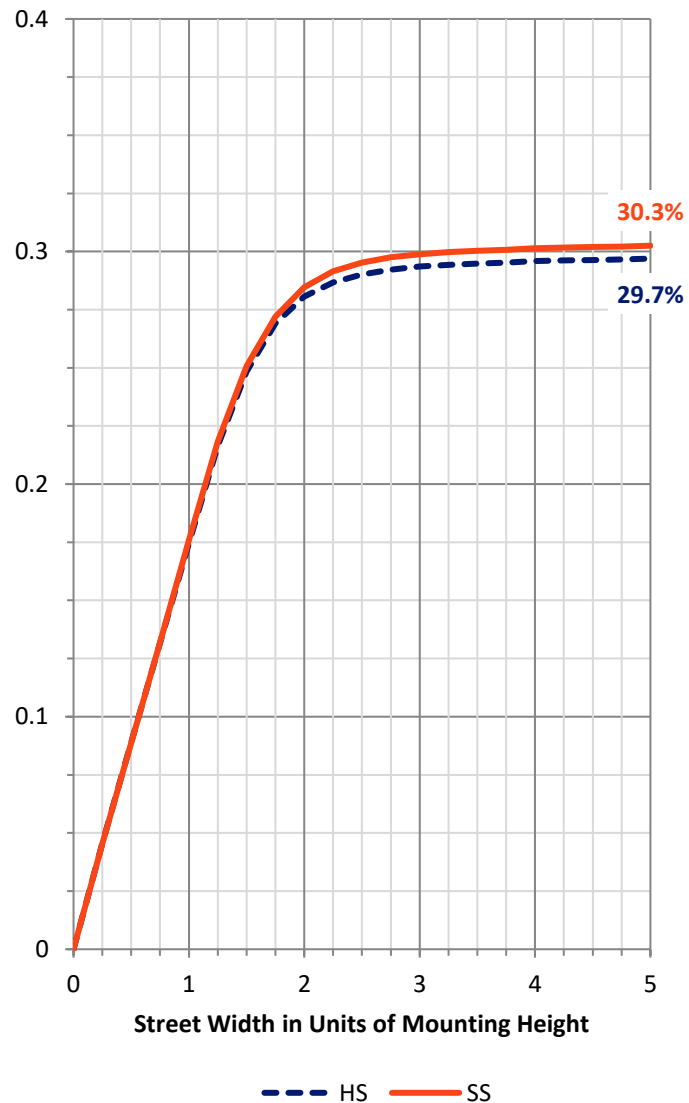
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9865.9	169.5	10035.4
	% Lamp	29.9	0.5	30.4
Street Side	Lumens	10029.8	174.7	10204.5
	% Lamp	30.4	0.5	30.9
Total	Lumens	19895.7	344.2	20239.8
	% Lamp	60.3	1.0	61.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.6	0.1	0.1
10°-20°	138.1	0.7	0.4
20°-30°	556.4	2.7	1.7
30°-40°	1363.4	6.7	4.1
40°-50°	4247.6	21.0	12.9
50°-60°	8127.1	40.2	24.6
60°-70°	4518.1	22.3	13.7
70°-80°	735.0	3.6	2.2
80°-90°	190.4	0.9	0.6
90°-100°	125.0	0.6	0.4
100°-110°	96.2	0.5	0.3
110°-120°	65.9	0.3	0.2
120°-130°	37.3	0.2	0.1
130°-140°	16.2	0.1	0.0
140°-150°	4.6	0.0	0.0
150°-160°	0.6	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	19895.7	98.3	60.3
0°-180°	20239.8	100.0	61.3

Coefficient of Utilization

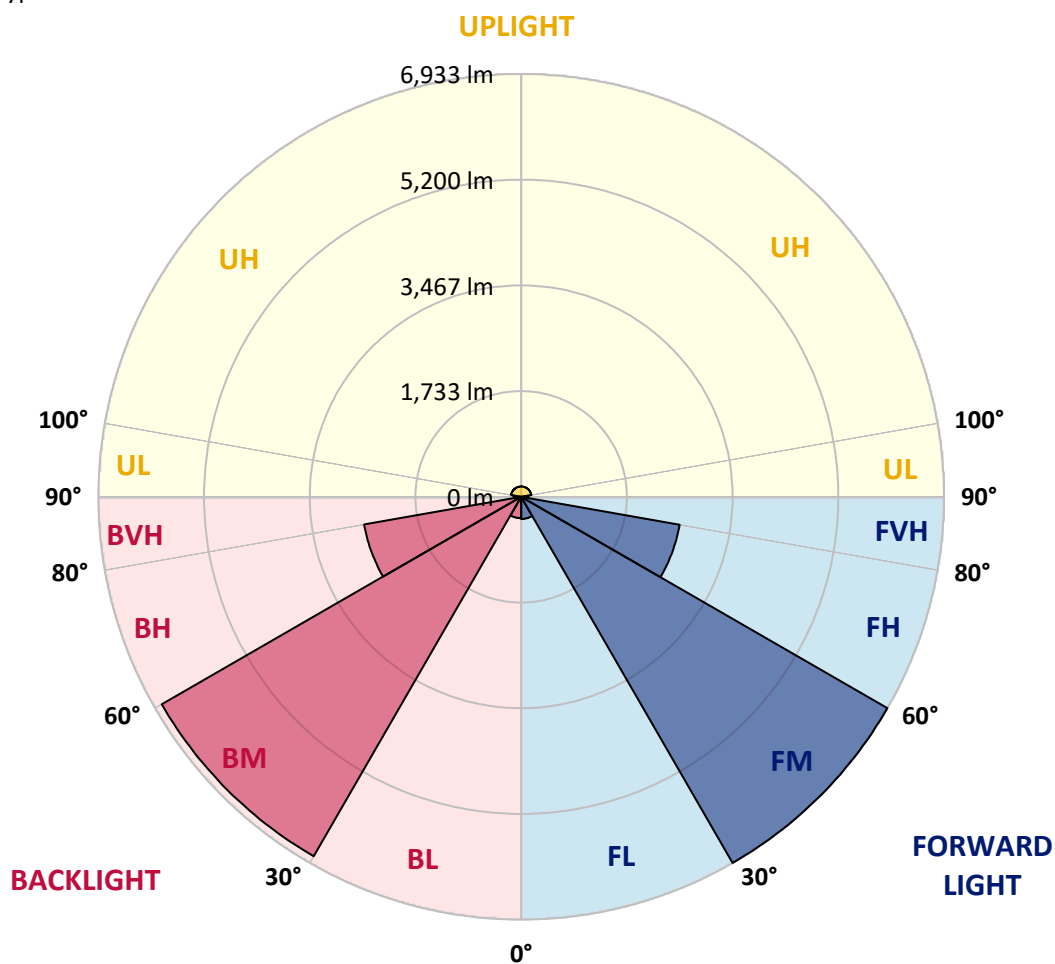


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.3	1.1			
FM	(30°-60°)	6933.3	21.0			
FH	(60°-80°)	2637.9	8.0			G2/5000
FVH	(80°-90°)	95.3	0.3			G1/100
BL	(0°-30°)	350.8	1.1	B1/500		
BM	(30°-60°)	6804.8	20.6	B4/8500		
BH	(60°-80°)	2615.1	7.9	B4/5000		G2/5000
BVH	(80°-90°)	95.1	0.3			G1/100
UL	(90°-100°)	125.0	0.4		U3/500	
UH	(100°-180°)	169.5	0.5		U3/500	
Trapped Light		12760.2	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	9.2	9.2	13.8	9.2	13.8	9.2	9.2	9.2	9.2	9.2	13.8
5°	65.1	55.9	60.5	51.3	33.0	28.4	28.4	33.0	42.2	42.2	46.8
7.5°	289.7	289.7	298.8	285.1	262.2	266.8	262.2	275.9	289.7	298.8	304.3
10°	383.2	374.0	407.0	434.5	434.5	429.9	449.2	453.8	449.2	407.0	387.8
12.5°	402.4	429.9	528.0	579.3	565.6	561.0	579.3	584.8	547.2	509.7	485.8
15°	485.8	472.1	491.3	500.5	528.0	556.4	532.6	505.1	538.1	561.0	547.2
17.5°	411.6	420.8	402.4	425.3	439.1	444.6	476.7	425.3	434.5	453.8	467.5
20°	392.3	392.3	364.8	378.6	397.8	407.0	434.5	383.2	383.2	425.3	425.3
22.5°	523.4	1042.2	1164.2	1290.7	748.0	407.0	761.8	1276.0	1257.7	1233.8	654.5
25°	1337.4	1346.6	1393.3	1477.7	902.0	416.2	925.8	1509.8	1496.0	1580.3	1640.8
27.5°	1551.9	1566.6	1655.5	1771.9	963.4	1738.9	874.5	1729.8	1738.9	1795.8	1912.2
30°	1749.0	1790.2	1874.6	1968.1	874.5	2127.6	799.3	1930.5	1903.0	1996.5	2090.0
32.5°	1916.8	1954.3	2057.0	2239.4	855.2	2454.8	803.9	2263.2	2159.7	2221.1	2337.5
35°	2159.7	2206.4	2277.0	2464.0	935.0	2744.5	897.4	2590.5	2482.3	2566.7	2585.0
37.5°	2543.8	2618.0	2646.4	2866.4	1164.2	3100.2	1140.3	2936.1	2884.8	3001.2	2949.8
40°	3291.8	3352.2	3287.2	3534.7	1650.0	3744.6	1650.0	3632.8	3548.4	3665.8	3572.2
42.5°	4544.8	4605.3	4385.3	4638.3	2431.0	4819.8	2454.8	4783.2	4647.5	4810.7	4792.3
45°	6059.2	6072.9	5591.7	5872.2	3557.6	5858.4	3623.6	6087.6	5881.3	6227.8	6270.0
47.5°	7910.8	7896.2	7111.5	7434.2	4881.2	7120.7	4983.9	7639.5	7205.0	7844.8	7854.9
50°	9527.8	9551.7	8458.1	8794.5	6119.7	8251.8	6344.2	9117.2	8476.4	9369.2	9406.8
52.5°	10566.4	10631.5	9336.2	9607.6	6971.2	9023.7	7340.7	10187.8	9387.6	10477.5	10477.5
55°	10921.2	11029.3	9649.8	9813.8	7419.5	9224.4	7896.2	10486.7	9803.8	10893.7	10865.2
57.5°	10388.6	10575.6	9355.5	9224.4	7148.2	8691.8	7606.5	10047.6	9504.9	10500.4	10472.9
60°	9275.8	9327.1	8378.3	8102.4	6040.8	6891.5	6414.8	9051.2	8514.0	9476.5	9387.6
62.5°	7424.1	7475.4	6751.2	6424.0	4628.2	4852.8	4890.4	7185.8	6727.4	7513.0	7564.3
65°	5236.0	5264.4	4703.4	4409.2	3291.8	3287.2	3525.5	5006.8	4745.6	5367.1	5376.2
67.5°	3198.2	3263.3	2903.1	2631.8	2304.5	2328.3	2486.9	3047.9	2982.8	3403.6	3343.1
70°	1907.6	2052.4	1847.1	1660.1	1407.1	1426.3	1519.8	1865.4	1972.7	2216.5	2057.0
72.5°	1056.9	1084.4	1000.1	925.8	794.8	785.6	794.8	990.9	1056.9	1155.0	1187.1
75°	607.8	631.6	607.8	565.6	462.9	458.3	444.6	594.0	645.3	696.7	725.1
77.5°	374.0	392.3	387.8	360.2	289.7	285.1	262.2	360.2	411.6	434.5	449.2
80°	262.2	271.3	271.3	257.6	200.8	196.2	187.0	252.1	294.2	308.9	298.8
82.5°	205.3	210.8	215.4	200.8	158.6	158.6	158.6	210.8	233.8	242.9	252.1
85°	177.8	177.8	182.4	168.7	131.1	131.1	135.7	173.2	191.6	200.8	229.2
87.5°	158.6	154.0	158.6	144.8	117.3	117.3	117.3	149.4	168.7	168.7	173.2
90°	131.1	140.2	140.2	131.1	107.2	107.2	107.2	135.7	149.4	154.0	158.6
95°	121.9	121.9	121.9	117.3	98.1	93.5	98.1	121.9	131.1	140.2	131.1
105°	102.7	98.1	102.7	93.5	79.8	75.2	79.8	98.1	102.7	107.2	107.2
115°	75.2	79.8	75.2	65.1	51.3	51.3	60.5	70.6	79.8	79.8	84.3
125°	46.8	46.8	46.8	42.2	28.4	28.4	33.0	37.6	51.3	46.8	51.3
135°	28.4	23.8	28.4	18.3	13.8	9.2	13.8	18.3	23.8	28.4	28.4
145°	9.2	9.2	9.2	0.0	0.0	0.0	0.0	9.2	4.6	4.6	13.8
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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
5°	46.8	37.6	28.4	18.3	13.8	9.2	9.2	13.8	13.8	9.2
7.5°	294.2	285.1	262.2	252.1	247.5	242.9	247.5	247.5	266.8	280.5
10°	397.8	444.6	444.6	420.8	444.6	453.8	449.2	416.2	425.3	429.9
12.5°	500.5	538.1	621.5	612.3	589.4	612.3	589.4	589.4	532.6	514.2
15°	547.2	528.0	532.6	551.8	556.4	556.4	538.1	579.3	579.3	616.9
17.5°	462.9	439.1	444.6	476.7	472.1	500.5	462.9	491.3	556.4	495.9
20°	420.8	402.4	383.2	444.6	392.3	434.5	383.2	407.0	449.2	420.8
22.5°	1150.4	1220.1	1210.9	761.8	374.0	687.5	1070.7	968.0	794.8	626.1
25°	1562.0	1533.6	1496.0	948.8	444.6	939.6	1407.1	1201.8	1093.6	1028.5
27.5°	1738.9	1669.2	1809.5	846.1	1613.3	995.5	1636.2	1360.3	1155.0	1159.6
30°	1977.2	1949.8	2043.2	781.0	2038.7	1099.1	1940.6	1571.2	1304.4	1271.4
32.5°	2174.3	2145.9	2253.2	799.3	2230.2	1084.4	2076.2	1809.5	1468.5	1402.5
35°	2491.5	2417.2	2529.1	846.1	2571.2	1046.8	2337.5	2001.1	1631.7	1542.8
37.5°	2926.9	2791.2	2866.4	1052.3	2898.5	1168.8	2562.1	2277.0	1879.2	1785.7
40°	3632.8	3366.0	3506.2	1430.9	3534.7	1477.7	3165.2	2838.0	2482.3	2403.5
42.5°	4810.7	4460.5	4572.3	2150.5	4694.2	2248.6	4324.8	3904.1	3655.7	3468.7
45°	6241.6	5647.6	5830.0	3245.0	5876.8	3296.3	5507.3	5119.6	5068.2	4946.3
47.5°	7826.5	7218.8	7330.6	4754.8	7316.8	4768.5	7176.6	6718.2	6844.8	6620.2
50°	9495.8	8621.2	8910.9	6227.8	8817.4	6050.0	8714.8	8172.1	8583.7	8218.8
52.5°	10659.9	9678.2	10108.1	7283.8	9767.1	6886.9	9738.7	9196.0	9836.8	9481.1
55°	11216.3	9990.8	10725.0	7695.4	10168.6	7148.2	10192.4	9509.5	10337.2	9996.2
57.5°	10945.0	9799.2	10430.8	7372.8	9476.5	6793.4	9878.9	9289.5	10052.2	9771.7
60°	9729.5	8934.8	9331.7	6433.2	7377.3	5900.6	8761.5	8349.9	8855.0	8602.9
62.5°	7648.7	7101.4	7214.2	5152.6	5142.5	4656.7	6601.8	6381.8	6952.0	6666.9
65°	5320.3	4993.1	4904.2	3768.4	3510.8	3394.4	4305.6	4169.9	4754.8	4469.7
67.5°	3347.7	3109.3	2931.5	2552.9	2375.1	2281.6	2669.3	2673.9	3094.7	2871.0
70°	2197.2	2038.7	1832.4	1421.8	1384.2	1276.0	1800.3	1790.2	1940.6	1758.2
72.5°	1145.8	1000.1	888.2	687.5	748.0	678.3	874.5	874.5	939.6	869.9
75°	692.1	594.0	518.8	387.8	444.6	416.2	514.2	514.2	551.8	532.6
77.5°	429.9	387.8	341.0	242.9	294.2	275.9	341.0	360.2	369.4	364.8
80°	313.5	304.3	262.2	177.8	200.8	200.8	262.2	271.3	266.8	271.3
82.5°	252.1	242.9	220.0	140.2	154.0	154.0	215.4	220.0	210.8	224.6
85°	196.2	196.2	173.2	131.1	131.1	131.1	168.7	173.2	182.4	196.2
87.5°	168.7	164.1	144.8	111.8	111.8	111.8	144.8	154.0	154.0	168.7
90°	154.0	144.8	140.2	102.7	102.7	102.7	126.5	135.7	140.2	131.1
95°	131.1	135.7	117.3	88.9	88.9	84.3	111.8	121.9	121.9	111.8
105°	107.2	107.2	98.1	75.2	70.6	70.6	93.5	93.5	93.5	93.5
115°	79.8	79.8	75.2	51.3	55.9	51.3	65.1	65.1	75.2	65.1
125°	51.3	46.8	42.2	28.4	28.4	28.4	37.6	42.2	46.8	46.8
135°	23.8	28.4	18.3	13.8	9.2	13.8	18.3	23.8	23.8	28.4
145°	4.6	9.2	4.6	0.0	4.6	4.6	0.0	9.2	4.6	9.2
155°	0.0	4.6	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)