

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_320MP

Luminaire Tested: **ACN32PXX3C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769249_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN32PXX3C
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE III CUTOFF
W/SPECULAR CHIMNEY
Light Source: 320 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 23542.9 lumens
Efficiency: 71.3%
Efficacy: 67.3 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B4 - U3 - G4

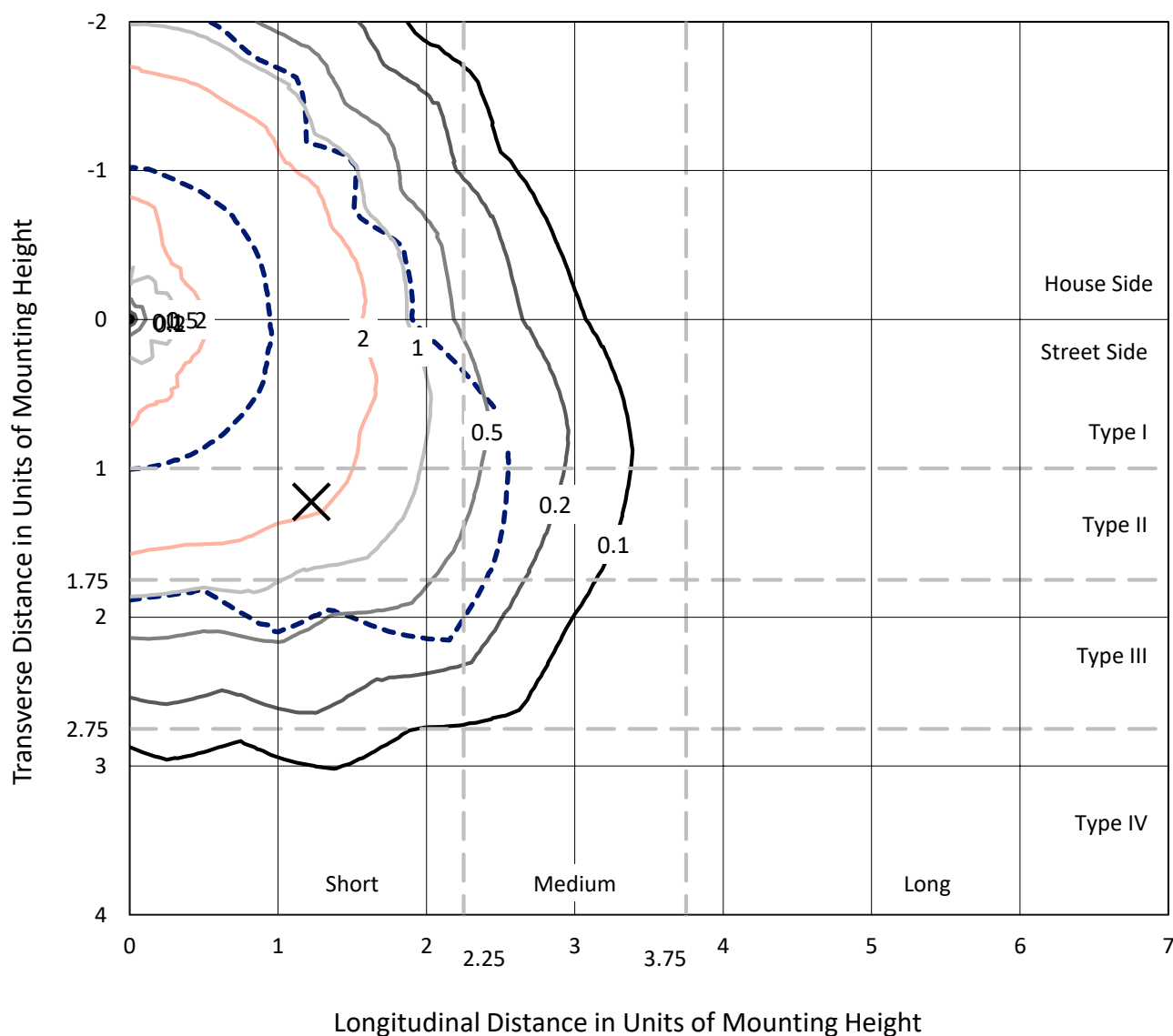
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

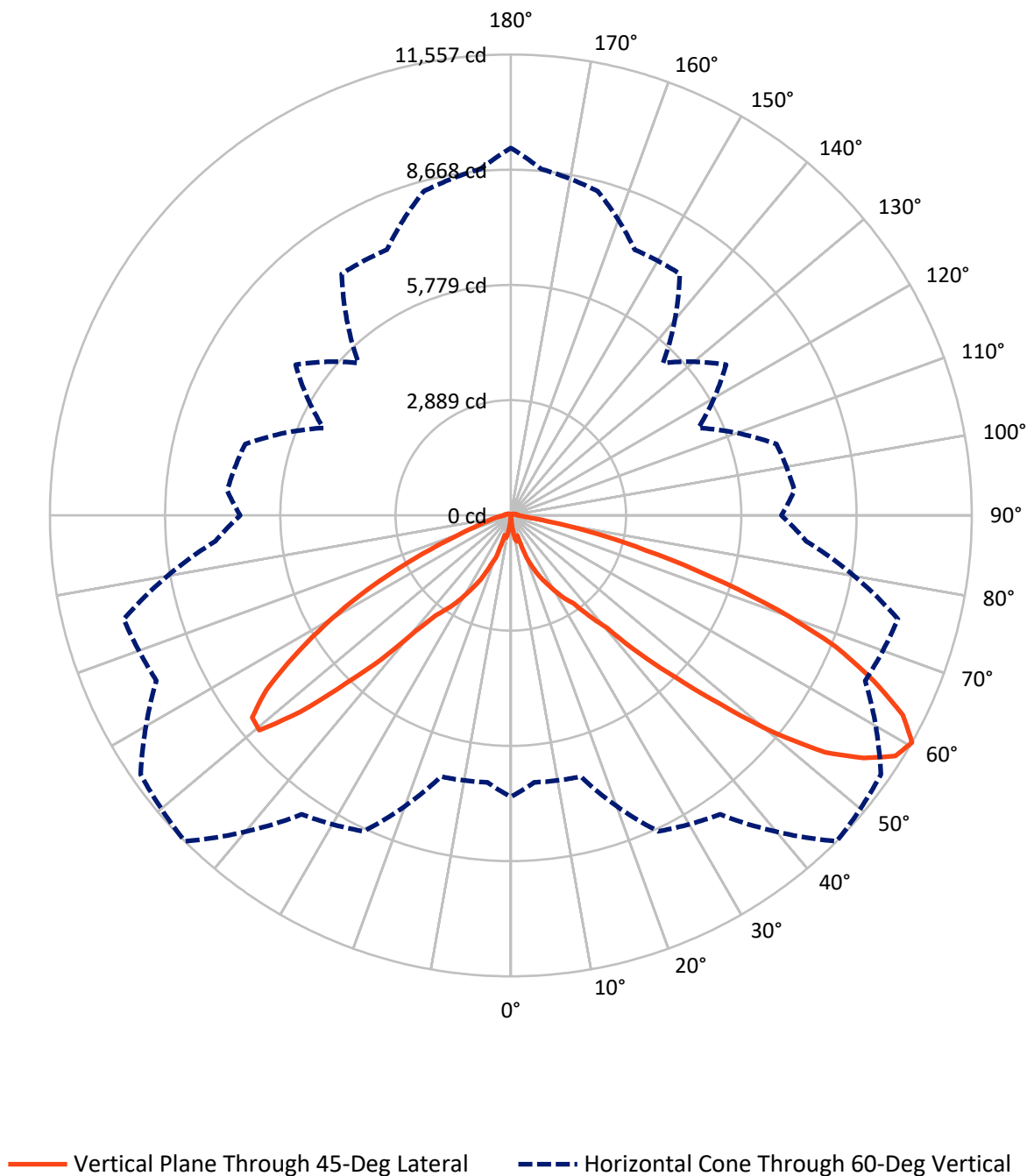
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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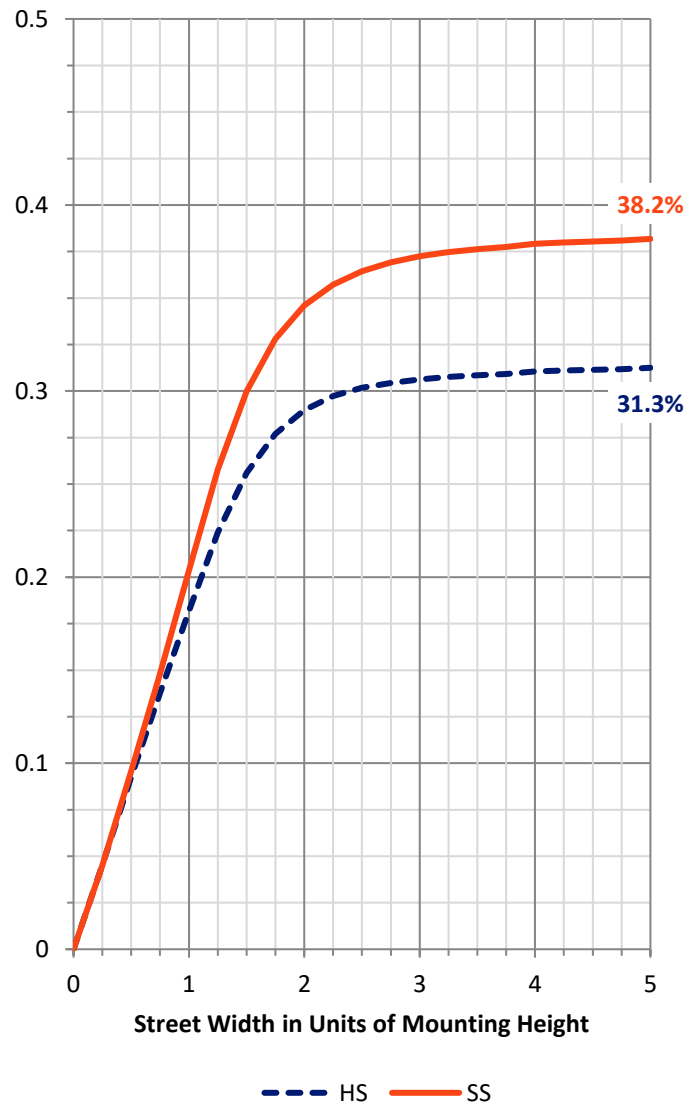
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10404.1	230.1	10634.2
	% Lamp	31.5	0.7	32.2
Street Side	Lumens	12674.8	233.8	12908.6
	% Lamp	38.4	0.7	39.1
Total	Lumens	23079.0	463.9	23542.9
	% Lamp	69.9	1.4	71.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.7	0.1	0.1
10°-20°	182.3	0.8	0.6
20°-30°	727.1	3.1	2.2
30°-40°	1687.9	7.2	5.1
40°-50°	4744.4	20.2	14.4
50°-60°	8018.2	34.1	24.3
60°-70°	5597.1	23.8	17.0
70°-80°	1746.8	7.4	5.3
80°-90°	346.3	1.5	1.0
90°-100°	167.6	0.7	0.5
100°-110°	120.8	0.5	0.4
110°-120°	82.7	0.4	0.3
120°-130°	53.8	0.2	0.2
130°-140°	29.0	0.1	0.1
140°-150°	10.9	0.0	0.0
150°-160°	3.0	0.0	0.0
160°-170°	0.5	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	23079.0	98.0	69.9
0°-180°	23542.9	100.0	71.3

Coefficient of Utilization

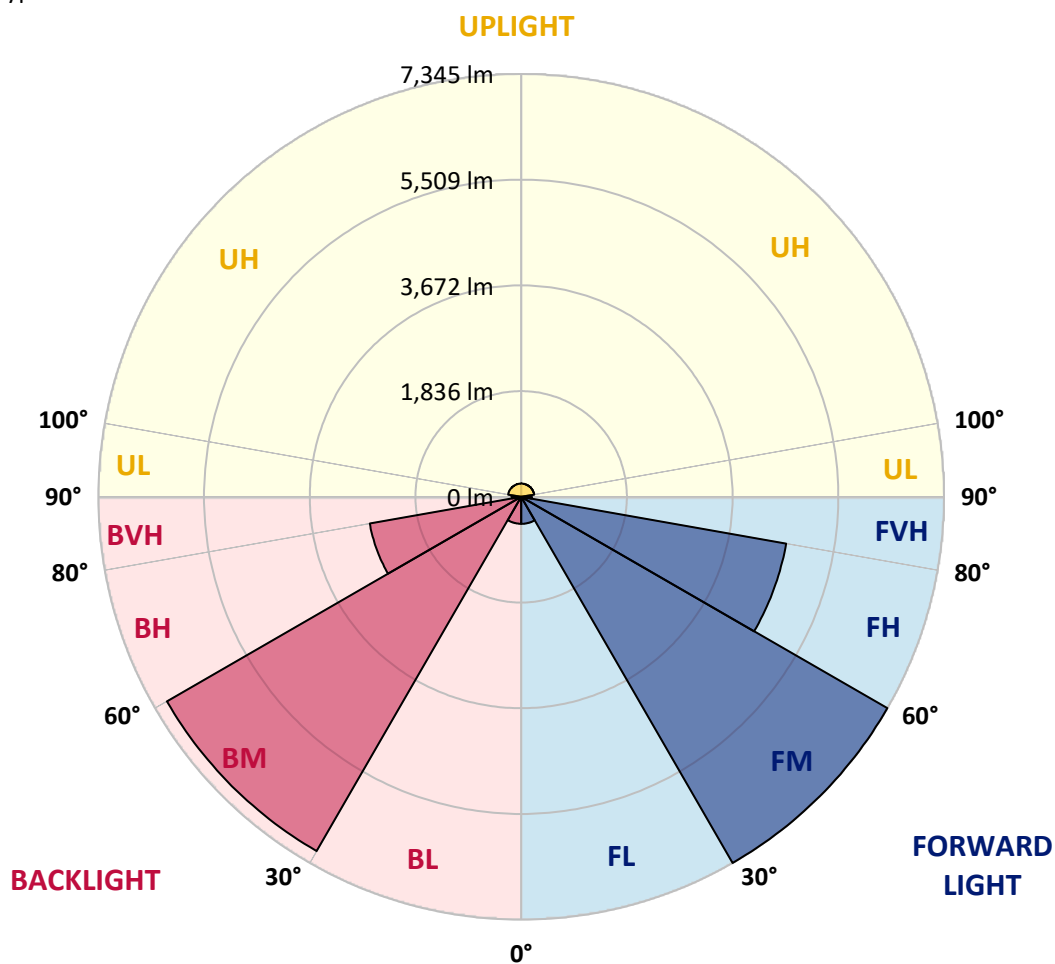


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	470.1	1.4			
FM	(30°-60°)	7345.0	22.3			
FH	(60°-80°)	4673.9	14.2			G2/5000
FVH	(80°-90°)	185.9	0.6			G2/225
BL	(0°-30°)	468.1	1.4	B1/500		
BM	(30°-60°)	7105.6	21.5	B4/8500		
BH	(60°-80°)	2670.0	8.1	B4/5000		G4/5000
BVH	(80°-90°)	160.4	0.5			G2/225
UL	(90°-100°)	167.6	0.5		U3/500	
UH	(100°-180°)	230.1	0.7		U3/500	
Trapped Light		9457.1	28.7			

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°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	4.6	9.2	9.2
5°	111.8	117.3	107.2	111.8	111.8	121.9	102.7	107.2	111.8	117.3	121.9
7.5°	411.6	416.2	411.6	397.8	402.4	420.8	411.6	420.8	411.6	416.2	407.0
10°	542.7	565.6	574.8	603.2	603.2	612.3	621.5	612.3	621.5	607.8	598.6
12.5°	672.8	682.9	692.1	701.2	701.2	672.8	687.5	692.1	692.1	659.1	640.8
15°	663.7	672.8	687.5	649.9	631.6	626.1	636.2	612.3	598.6	565.6	551.8
17.5°	579.3	565.6	561.0	556.4	556.4	528.0	523.4	481.2	495.9	467.5	476.7
20°	823.2	855.2	879.1	1005.6	850.7	1122.0	1075.2	1037.7	1042.2	935.0	1033.1
22.5°	1197.2	1155.0	1243.9	1364.9	1322.8	1435.5	1322.8	1304.4	1309.0	1197.2	1346.6
25°	1449.2	1440.1	1463.0	1519.8	1509.8	1702.2	1664.7	1622.5	1589.5	1486.8	1678.4
27.5°	1636.2	1622.5	1725.2	1645.4	1687.6	1949.8	1874.6	1832.4	1795.8	1725.2	1925.9
30°	1823.2	1781.1	1930.5	1889.2	1925.9	2206.4	2155.1	2132.2	2070.8	1925.9	2099.2
32.5°	2029.5	2057.0	2192.7	2094.6	2225.7	2486.9	2388.8	2346.7	2332.9	2136.8	2388.8
35°	2234.8	2248.6	2408.1	2515.3	2580.4	2706.9	2697.8	2673.9	2669.3	2613.4	2646.4
37.5°	2543.8	2562.1	2716.1	2828.8	2903.1	3188.2	3020.4	2992.0	3094.7	2969.1	3080.9
40°	3132.2	3146.9	3319.2	3441.2	3492.5	3707.9	3670.3	3619.0	3806.0	3702.4	3917.8
42.5°	4282.7	4240.5	4474.2	4554.0	4567.8	4741.0	4685.1	4638.3	5021.5	4913.3	5240.6
45°	5629.2	5643.0	5802.5	5769.5	5774.1	5783.2	5774.1	5676.0	6489.1	6217.8	6638.5
47.5°	7181.2	7050.1	7139.0	7036.3	7078.5	7073.9	7050.1	6914.4	7985.1	7597.3	7929.2
50°	8490.2	8135.4	8205.1	8294.0	8280.2	8560.8	8373.8	8186.8	9369.2	8897.2	8850.4
52.5°	9042.0	8588.2	8738.6	9121.8	9210.7	9865.2	9560.8	8920.1	10224.5	9280.3	9289.5
55°	8752.3	8448.0	8616.7	9462.8	9892.7	10738.8	10655.3	9130.9	10776.3	8868.8	8892.6
57.5°	8284.8	7755.9	7915.4	9364.7	9790.0	11374.9	11112.8	9636.0	10738.8	8218.8	7966.8
60°	7060.2	6718.2	6778.8	8738.6	9149.2	11557.3	11328.2	9803.8	10047.6	7434.2	6784.2
62.5°	5423.0	5376.2	5413.8	7719.2	7989.7	11029.3	11112.8	9533.3	8953.1	6503.8	5610.0
65°	4058.1	4207.5	4160.8	6508.3	6751.2	9990.8	10328.1	8794.5	7690.8	5479.8	4465.1
67.5°	2880.2	3160.7	3038.8	5367.1	5479.8	8779.8	8714.8	7513.0	6419.4	4362.4	3399.0
70°	2001.1	2332.9	2136.8	4282.7	4287.2	7111.5	6914.4	5932.7	5292.8	3380.7	2599.7
72.5°	1262.2	1584.9	1468.5	2973.7	3034.2	5203.9	4726.3	4352.3	3838.1	2566.7	1963.5
75°	766.3	1028.5	1000.1	1879.2	1898.4	3492.5	2824.2	2945.2	2585.0	1716.0	1388.8
77.5°	542.7	668.2	678.3	1197.2	1140.3	2192.7	1566.6	1645.4	1426.3	1046.8	781.0
80°	402.4	425.3	481.2	766.3	729.7	1028.5	859.8	757.2	725.1	626.1	547.2
82.5°	298.8	304.3	331.8	402.4	416.2	481.2	491.3	491.3	458.3	434.5	411.6
85°	224.6	229.2	242.9	280.5	304.3	322.7	322.7	313.5	298.8	289.7	285.1
87.5°	196.2	191.6	191.6	205.3	220.0	229.2	233.8	220.0	215.4	205.3	205.3
90°	168.7	168.7	168.7	173.2	177.8	182.4	182.4	182.4	168.7	158.6	158.6
95°	149.4	149.4	149.4	158.6	154.0	158.6	158.6	164.1	154.0	149.4	149.4
105°	102.7	111.8	111.8	111.8	117.3	111.8	117.3	111.8	111.8	107.2	102.7
115°	84.3	84.3	84.3	79.8	84.3	79.8	84.3	88.9	79.8	79.8	79.8
125°	55.9	60.5	60.5	60.5	55.9	55.9	60.5	55.9	55.9	55.9	60.5
135°	37.6	46.8	42.2	37.6	42.2	37.6	37.6	37.6	42.2	37.6	42.2
145°	9.2	13.8	13.8	13.8	13.8	13.8	9.2	9.2	9.2	13.8	9.2
155°	9.2	9.2	13.8	9.2	9.2	4.6	4.6	9.2	4.6	9.2	4.6
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°	4.6	9.2	9.2	4.6	9.2	4.6	4.6	9.2	9.2	9.2
5°	131.1	140.2	149.4	154.0	149.4	135.7	102.7	93.5	102.7	102.7
7.5°	416.2	402.4	383.2	345.6	331.8	345.6	351.1	355.7	341.0	336.4
10°	584.8	547.2	495.9	476.7	481.2	528.0	556.4	589.4	603.2	607.8
12.5°	621.5	584.8	561.0	565.6	574.8	589.4	640.8	654.5	715.0	701.2
15°	542.7	538.1	542.7	561.0	565.6	547.2	574.8	594.0	594.0	701.2
17.5°	491.3	481.2	509.7	495.9	518.8	500.5	491.3	514.2	481.2	495.9
20°	916.7	1070.7	1099.1	1084.4	1126.6	925.8	1093.6	972.6	803.9	785.6
22.5°	1173.3	1384.2	1426.3	1463.0	1332.8	1397.9	1332.8	1192.6	948.8	850.7
25°	1509.8	1702.2	1738.9	1758.2	1692.2	1669.2	1594.1	1313.6	1093.6	1010.2
27.5°	1678.4	1930.5	2057.0	2080.8	1972.7	1925.9	1795.8	1542.8	1262.2	1233.8
30°	1958.9	2234.8	2304.5	2299.9	2257.8	2174.3	2001.1	1771.9	1444.7	1393.3
32.5°	2319.2	2515.3	2562.1	2637.2	2580.4	2450.2	2295.3	1972.7	1603.2	1505.2
35°	2716.1	2866.4	2860.9	2954.4	2851.8	2725.2	2580.4	2244.0	1818.7	1729.8
37.5°	3127.7	3240.4	3263.3	3174.4	3146.9	3047.9	2917.8	2557.5	2178.9	2094.6
40°	3950.8	3936.2	3913.2	3866.5	3759.2	3655.7	3553.0	3245.0	2744.5	2767.4
42.5°	5362.5	5213.1	5002.2	4997.7	4857.4	4852.8	4829.9	4469.7	3946.2	3889.4
45°	6807.2	6526.7	6157.2	6217.8	5905.2	5998.7	5942.8	5830.0	5273.6	5329.5
47.5°	8303.2	7995.2	7457.1	7490.1	7223.3	7345.2	7574.4	7438.8	6956.6	7274.7
50°	9527.8	9317.9	8630.4	8625.8	8294.0	8551.6	8925.6	8883.4	8583.7	9266.6
52.5°	9977.0	9701.1	8752.3	8966.8	8228.9	9262.0	9304.2	9865.2	9556.2	10780.9
55°	9668.1	9112.6	7873.2	8443.4	7527.7	9084.2	9107.1	9934.8	9767.1	11295.2
57.5°	8625.8	8102.4	6540.4	7634.9	6475.3	8312.3	8405.8	9383.0	9491.2	10640.7
60°	7139.0	6896.1	5184.7	6587.2	5400.1	7392.0	7349.8	8415.9	8719.3	9210.7
62.5°	5633.8	5605.4	3993.0	5380.8	4334.0	6129.8	5928.1	7027.2	7424.1	7368.2
65°	4301.0	4245.1	3001.2	4071.8	3202.8	4600.8	4311.1	5226.8	5620.1	5469.8
67.5°	3169.8	2964.5	2169.8	2907.7	2201.8	3100.2	2907.7	3515.4	3875.7	3628.2
70°	2342.1	1982.8	1505.2	1893.8	1421.8	1972.7	1865.4	2216.5	2473.2	2206.4
72.5°	1687.6	1229.2	1014.8	1108.2	968.0	1192.6	1210.9	1374.1	1529.0	1393.3
75°	1084.4	776.4	719.6	719.6	715.0	785.6	850.7	912.1	1000.1	963.4
77.5°	663.7	589.4	547.2	565.6	556.4	589.4	631.6	659.1	705.8	682.9
80°	514.2	485.8	444.6	458.3	453.8	481.2	481.2	491.3	509.7	495.9
82.5°	387.8	364.8	345.6	351.1	364.8	369.4	360.2	364.8	355.7	345.6
85°	280.5	271.3	271.3	280.5	285.1	285.1	275.9	275.9	271.3	262.2
87.5°	210.8	210.8	215.4	220.0	220.0	215.4	210.8	205.3	200.8	196.2
90°	164.1	164.1	168.7	173.2	177.8	177.8	168.7	168.7	168.7	168.7
95°	149.4	149.4	158.6	158.6	158.6	158.6	158.6	149.4	154.0	149.4
105°	107.2	107.2	111.8	111.8	111.8	107.2	107.2	102.7	102.7	102.7
115°	84.3	79.8	84.3	84.3	84.3	84.3	84.3	75.2	75.2	65.1
125°	55.9	65.1	65.1	60.5	70.6	55.9	60.5	55.9	51.3	55.9
135°	37.6	46.8	42.2	42.2	42.2	37.6	37.6	33.0	33.0	28.4
145°	9.2	9.2	13.8	13.8	9.2	9.2	13.8	9.2	9.2	9.2
155°	4.6	0.0	9.2	4.6	9.2	9.2	9.2	4.6	4.6	0.0
165°	4.6	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°	4.6	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)