

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P95369

Luminaire Tested: **VFS-K-B40-7-LED-E1-MSR**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P95369  
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22803)  
Test Lab: INNOVATION CENTER  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VFS-K-B40-7-LED-E1-MSR  
Description: ARCHITECTURAL FLOOD LUMINAIRE  
MEDIUM SYMMETRIC ROUND DISTRIBUTION  
WITH 40 LED'S, 700mA DRIVE CURRENT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	6363.7 lumens	Max Intensity:	9859.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	67.8 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	56°H x 56°V	Field Angle (10%):	66.2°H x 64.7°V
Beam Lumens:	5348.5 lumens	Field Lumens:	6098.5 lumens
Beam Efficiency:	84.0%	Field Efficiency:	95.8%

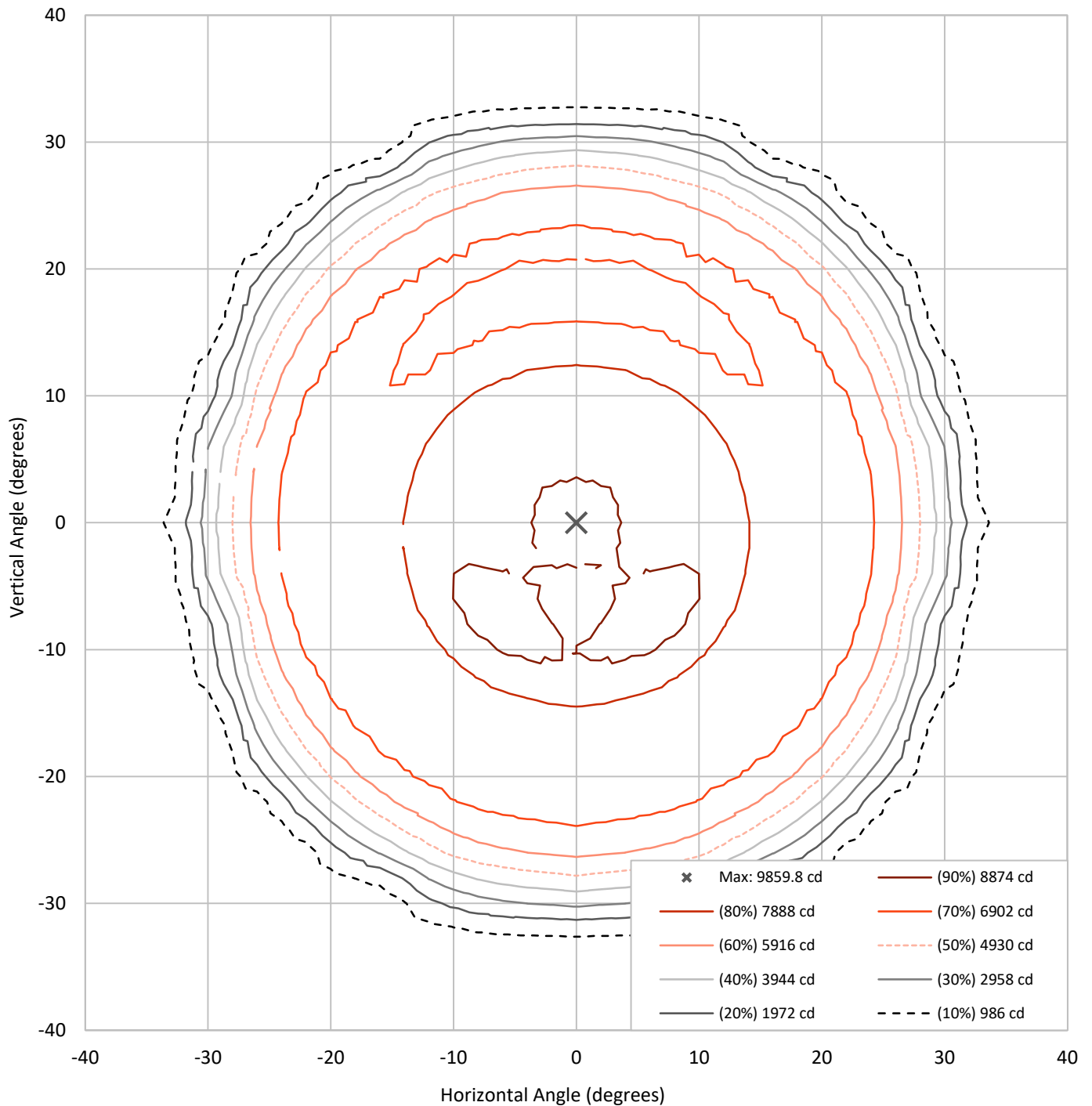
Input Watts (W): 93.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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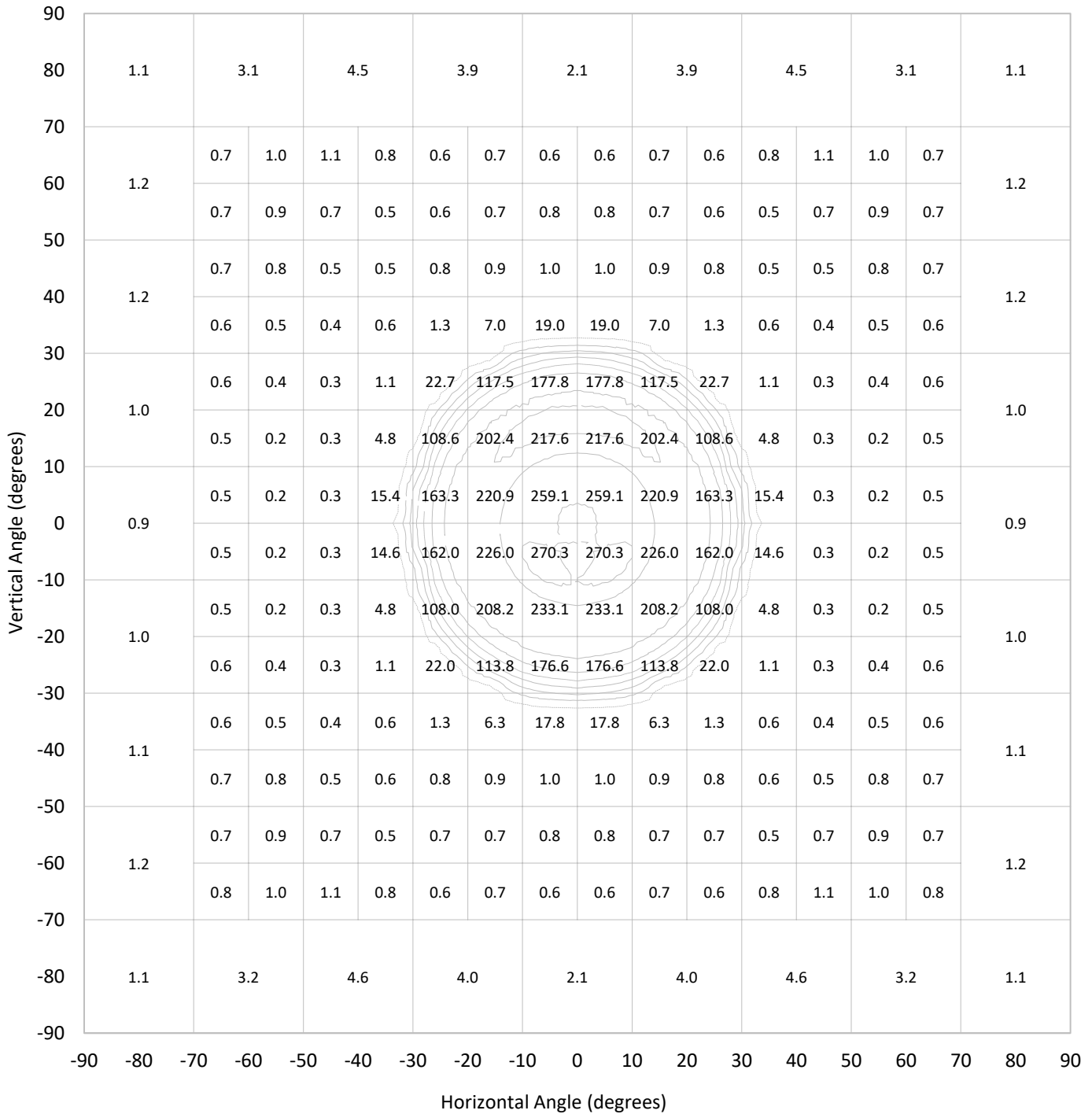
### Iso-Candela Plot





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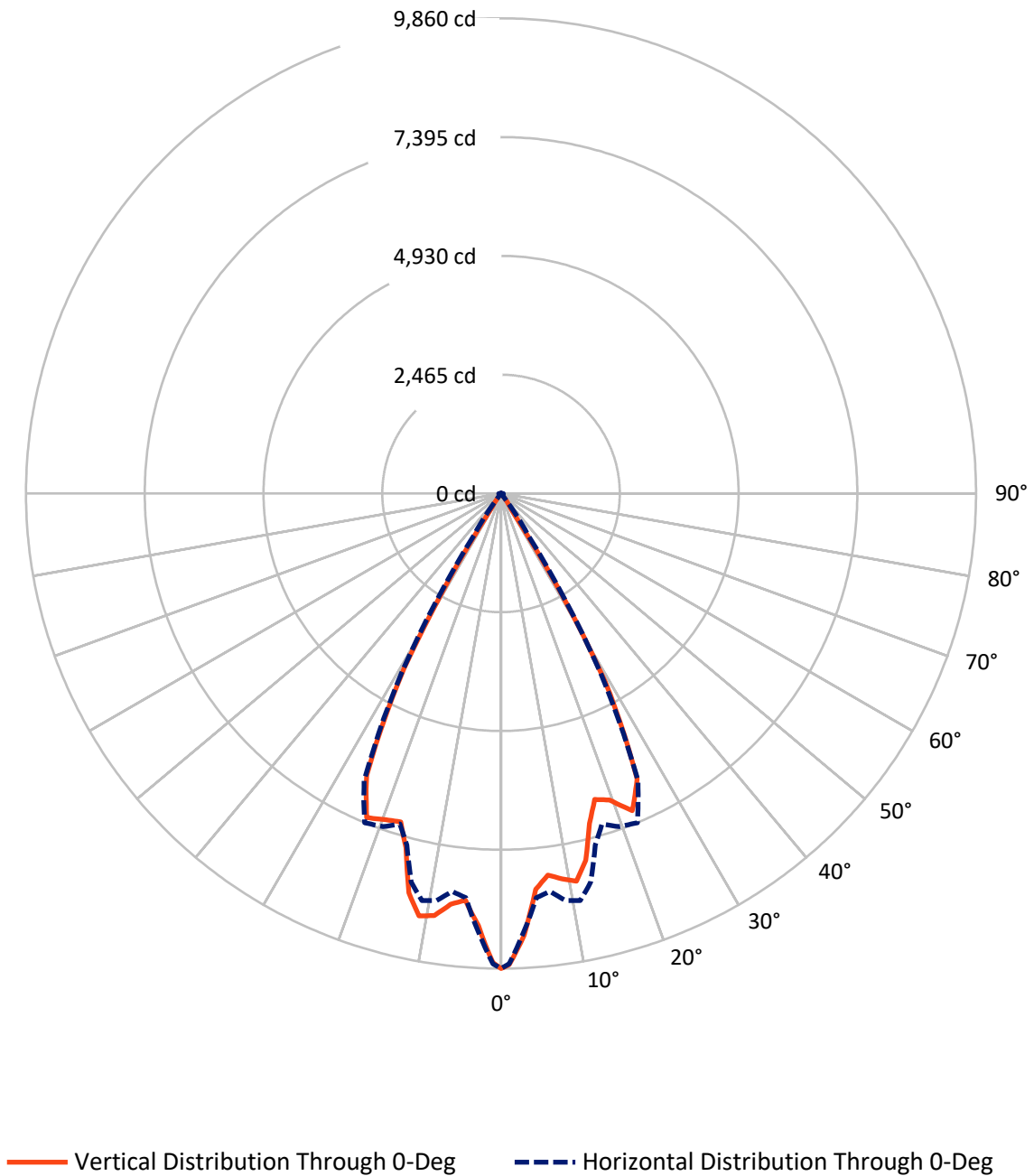
### Lumen Table



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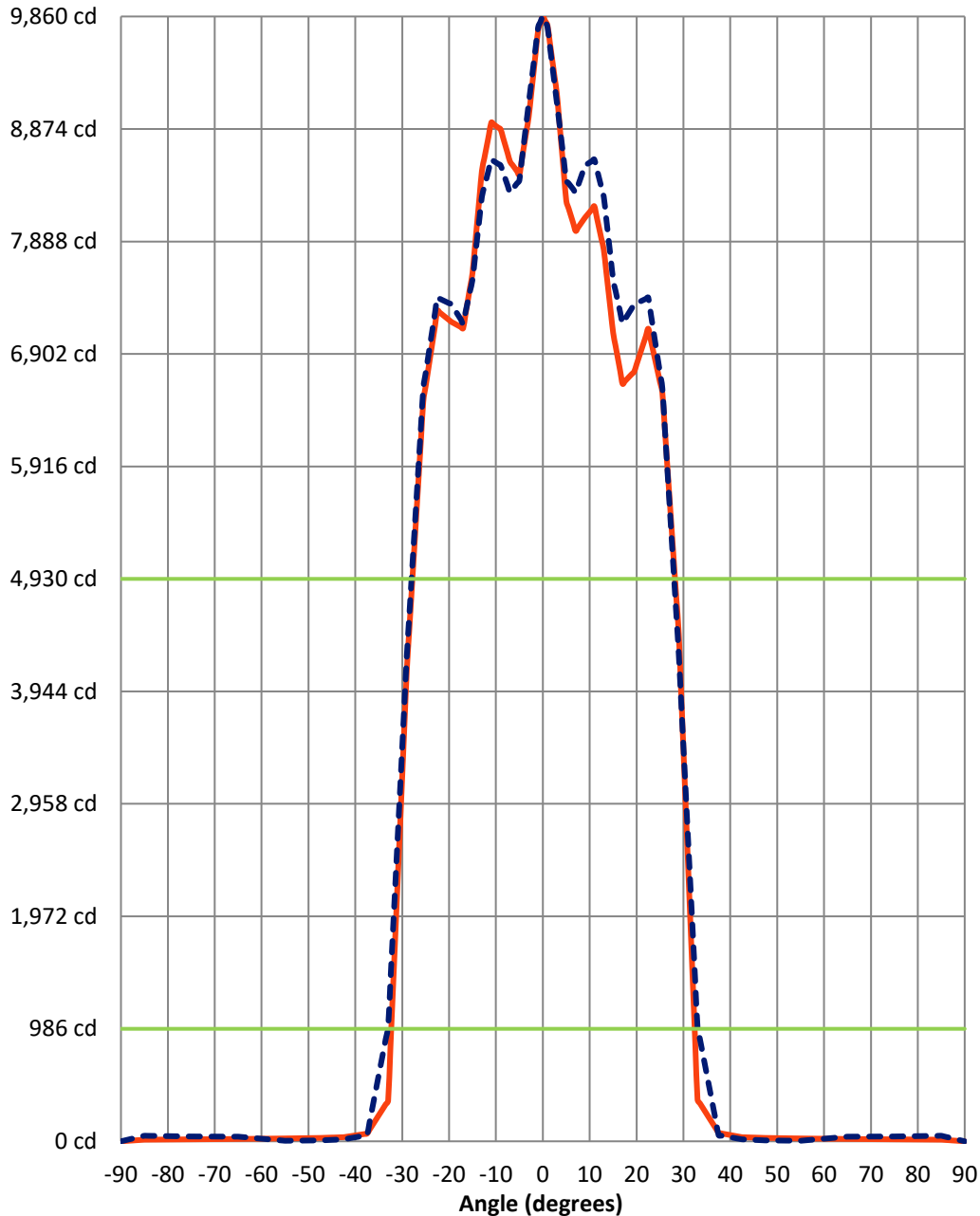
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 56°  
 V Angle: 56°  
 Lumens: 5348.5  
 Efficiency: 84.0%

**Field:**  
 H Angle: 66.2°  
 V Angle: 64.7°  
 Lumens: 6098.5  
 Efficiency: 95.8%

**Spill:**  
 Lumens: 265.2  
 Efficiency: 4.2%

— Vertical Distribution through 0-Deg  
 - - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	14.1	20.4	18.8	14.1	36.0	53.2	54.8	54.8	54.8	54.8
75°	17.2	17.2	17.2	17.2	18.8	20.4	21.9	20.4	18.8	17.2	15.7
65°	20.4	20.4	20.4	20.4	20.4	21.9	21.9	23.5	23.5	23.5	23.5
55°	25.0	25.0	25.0	25.0	23.5	25.0	25.0	25.0	25.0	25.0	25.0
47.5°	29.7	29.7	29.7	29.7	29.7	29.7	28.2	28.2	28.2	28.2	26.6
42.5°	36.0	36.0	36.0	36.0	36.0	34.4	34.4	32.9	32.9	31.3	29.7
37.5°	73.6	72.0	72.0	72.0	67.3	64.2	59.5	53.2	48.5	43.8	39.1
33°	366.3	364.8	364.8	371.0	380.4	400.8	284.9	212.9	181.6	128.4	78.3
29°	4447.7	4363.2	4259.8	4089.2	3697.8	3246.9	2785.1	2238.7	403.9	396.1	322.5
25.5°	6561.2	6523.6	6472.0	6367.1	6168.2	5881.7	5477.8	4895.5	4101.7	3240.7	2162.0
22.5°	7123.2	7118.5	7090.3	7051.2	6996.4	6877.4	6669.2	6357.7	5867.7	5161.6	4004.7
19.5°	6747.5	6767.8	6788.2	6835.2	6933.8	7038.7	7073.1	7032.4	6858.6	6453.2	5603.1
17°	6641.0	6637.9	6647.3	6661.4	6669.2	6733.4	6875.9	7034.0	7102.9	6969.8	6440.6
15°	7087.2	7052.8	7004.2	6904.0	6772.5	6703.7	6711.5	6858.6	7048.1	7126.4	6850.8
13°	7815.2	7774.5	7715.0	7538.1	7264.1	6991.7	6788.2	6750.6	6916.6	7110.7	7102.9
11°	8195.6	8184.7	8200.3	8139.3	7915.4	7575.7	7167.1	6866.5	6841.4	7034.0	7210.9
9°	8097.0	8117.3	8288.0	8466.5	8414.8	8100.1	7653.9	7182.7	6908.7	6985.5	7214.0
7°	7979.6	8006.2	8230.1	8648.1	8904.8	8555.7	8095.4	7522.4	7063.7	6980.8	7195.2
5°	8244.2	8252.0	8300.5	8587.0	8909.5	8862.5	8466.5	7855.9	7239.1	7019.9	7193.7
3°	9181.9	9059.8	8649.6	8407.0	8499.3	8682.5	8599.5	8100.1	7398.8	7079.4	7204.6
1°	9781.5	9700.1	9061.4	8399.1	8325.6	8558.8	8591.7	8237.9	7524.0	7156.1	7323.6
0°	9859.8	9765.9	9103.6	8424.2	8317.7	8554.1	8605.8	8280.2	7553.7	7171.8	7336.1
-1°	9740.8	9651.6	9058.2	8457.1	8378.8	8605.8	8637.1	8311.5	7556.9	7171.8	7293.9
-3°	8983.1	9031.6	8767.0	8629.3	8707.6	8839.1	8740.4	8284.9	7499.0	7179.6	7281.3
-5°	8474.3	8500.9	8701.3	9053.5	9224.2	9125.6	8779.6	8079.8	7376.8	7199.9	7322.0
-7°	8588.6	8613.6	8920.5	9372.9	9543.6	9131.8	8494.6	7766.7	7270.4	7210.9	7361.2
-9°	8870.4	8897.0	9095.8	9280.5	9150.6	8616.8	8037.5	7439.5	7195.2	7226.5	7375.3
-11°	8929.9	8967.4	8984.7	8870.4	8518.1	8065.7	7542.8	7192.1	7151.4	7295.4	7344.0
-13°	8507.2	8543.2	8394.4	8120.5	7832.4	7452.0	7170.2	7104.4	7225.0	7336.1	7199.9
-15°	7613.2	7539.7	7461.4	7334.6	7231.2	7109.1	7095.0	7201.5	7312.7	7271.9	6877.4
-17°	7126.4	7127.9	7126.4	7113.8	7101.3	7134.2	7223.4	7297.0	7253.2	7012.1	6415.6
-19.5°	7182.7	7198.4	7215.6	7246.9	7273.5	7300.1	7262.6	7121.7	6835.2	6385.9	5502.9
-22.5°	7281.3	7270.4	7253.2	7204.6	7120.1	6940.1	6650.4	6248.1	5717.4	5017.6	3884.1
-25.5°	6484.5	6410.9	6342.0	6180.8	6052.4	5773.7	5293.1	4637.1	3873.2	3051.2	2008.6
-29°	4142.4	4009.4	3917.0	3747.9	3475.5	3090.4	2544.0	1935.0	394.5	393.0	291.2
-33°	356.9	353.8	356.9	366.3	378.9	360.1	222.3	178.5	158.1	111.2	73.6
-37.5°	67.3	65.8	65.8	67.3	64.2	61.1	56.4	51.7	47.0	43.8	39.1
-42.5°	36.0	36.0	36.0	36.0	36.0	34.4	34.4	32.9	32.9	31.3	29.7
-47.5°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	28.2	28.2	28.2	28.2
-55°	25.0	25.0	23.5	25.0	23.5	25.0	25.0	25.0	25.0	25.0	25.0
-65°	20.4	20.4	20.4	20.4	20.4	20.4	21.9	23.5	23.5	23.5	23.5
-75°	17.2	17.2	17.2	17.2	18.8	20.4	21.9	20.4	18.8	17.2	15.7
-85°	14.1	15.7	20.4	18.8	14.1	36.0	53.2	56.4	56.4	54.8	56.4
-90°	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):**

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	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
85°	57.9	59.5	59.5	59.5	57.9	57.9	57.9	59.5	62.6	64.2	65.8
75°	25.0	37.6	53.2	54.8	54.8	53.2	56.4	59.5	57.9	59.5	64.2
65°	20.4	18.8	17.2	21.9	36.0	53.2	54.8	54.8	59.5	57.9	62.6
55°	25.0	23.5	21.9	18.8	17.2	25.0	40.7	54.8	53.2	59.5	61.1
47.5°	26.6	26.6	25.0	21.9	18.8	17.2	26.6	51.7	54.8	59.5	59.5
42.5°	29.7	28.2	26.6	23.5	20.4	17.2	18.8	42.3	54.8	57.9	59.5
37.5°	34.4	31.3	28.2	25.0	20.4	17.2	14.1	34.4	53.2	56.4	57.9
33°	53.2	42.3	32.9	26.6	21.9	17.2	14.1	28.2	51.7	54.8	56.4
29°	156.6	76.7	43.8	31.3	23.5	17.2	14.1	23.5	50.1	51.7	54.8
25.5°	360.1	203.5	86.1	39.1	25.0	17.2	12.5	18.8	48.5	50.1	53.2
22.5°	2354.6	341.3	192.6	51.7	28.2	17.2	12.5	15.7	48.5	48.5	53.2
19.5°	4031.3	2126.0	286.5	75.1	31.3	17.2	11.0	12.5	47.0	47.0	51.7
17°	5181.9	3257.9	324.1	114.3	32.9	17.2	11.0	11.0	45.4	47.0	51.7
15°	5873.9	4111.1	353.8	176.9	36.0	15.7	9.4	9.4	43.8	45.4	50.1
13°	6396.8	4831.3	1526.4	247.4	39.1	15.7	9.4	7.8	42.3	45.4	50.1
11°	6771.0	5401.1	1828.6	289.6	42.3	15.7	9.4	6.3	42.3	43.8	50.1
9°	7016.8	5845.7	2096.3	342.9	45.4	15.7	7.8	4.7	42.3	43.8	48.5
7°	7187.4	6179.2	3636.8	380.4	48.5	15.7	7.8	4.7	40.7	43.8	48.5
5°	7301.7	6390.5	3946.7	388.3	50.1	17.2	7.8	4.7	40.7	43.8	48.5
3°	7358.1	6525.2	4151.8	393.0	53.2	17.2	7.8	4.7	40.7	43.8	48.5
1°	7389.4	6594.1	4258.3	394.5	53.2	17.2	7.8	4.7	40.7	42.3	48.5
0°	7395.6	6600.3	4269.2	1005.1	53.2	17.2	7.8	4.7	40.7	42.3	48.5
-1°	7398.8	6592.5	4256.7	394.5	53.2	17.2	7.8	4.7	40.7	42.3	48.5
-3°	7389.4	6523.6	4155.0	393.0	53.2	17.2	7.8	4.7	40.7	43.8	48.5
-5°	7356.5	6371.8	3942.0	388.3	51.7	17.2	7.8	4.7	40.7	43.8	48.5
-7°	7264.1	6165.1	2309.2	380.4	48.5	15.7	7.8	4.7	40.7	43.8	48.5
-9°	7068.4	5847.3	2085.3	336.6	45.4	15.7	7.8	4.7	40.7	43.8	48.5
-11°	6771.0	5393.3	1822.3	289.6	40.7	15.7	9.4	6.3	42.3	43.8	48.5
-13°	6373.3	4806.2	1521.7	250.5	37.6	15.7	9.4	6.3	42.3	43.8	50.1
-15°	5825.4	4070.4	352.2	176.9	34.4	15.7	9.4	7.8	43.8	45.4	50.1
-17°	5127.2	3220.3	322.5	114.3	32.9	15.7	9.4	9.4	43.8	45.4	50.1
-19.5°	3918.6	2094.7	283.4	72.0	29.7	15.7	11.0	12.5	45.4	47.0	51.7
-22.5°	2285.7	338.2	187.9	48.5	26.6	17.2	11.0	15.7	47.0	48.5	51.7
-25.5°	353.8	197.3	83.0	37.6	25.0	17.2	12.5	18.8	48.5	50.1	53.2
-29°	144.0	72.0	43.8	31.3	23.5	17.2	14.1	23.5	50.1	51.7	53.2
-33°	51.7	40.7	32.9	26.6	21.9	17.2	14.1	28.2	51.7	53.2	54.8
-37.5°	34.4	31.3	28.2	25.0	21.9	17.2	15.7	34.4	53.2	56.4	56.4
-42.5°	29.7	28.2	26.6	23.5	20.4	17.2	18.8	43.8	54.8	57.9	57.9
-47.5°	26.6	26.6	25.0	23.5	20.4	17.2	26.6	51.7	54.8	59.5	59.5
-55°	25.0	25.0	21.9	20.4	17.2	26.6	42.3	54.8	54.8	59.5	61.1
-65°	21.9	18.8	17.2	21.9	37.6	53.2	56.4	54.8	59.5	57.9	62.6
-75°	25.0	39.1	53.2	54.8	56.4	54.8	56.4	61.1	59.5	59.5	64.2
-85°	59.5	61.1	61.1	59.5	59.5	57.9	59.5	61.1	62.6	64.2	65.8
-90°	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):**

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)