

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: STREETWORKS

Report Number: P156309

Luminaire Tested: **AVM-E05-LED-E-U-T4-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156309  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVM-E05-LED-E-U-T4-HSS-7030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD  
Light Source: (105) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

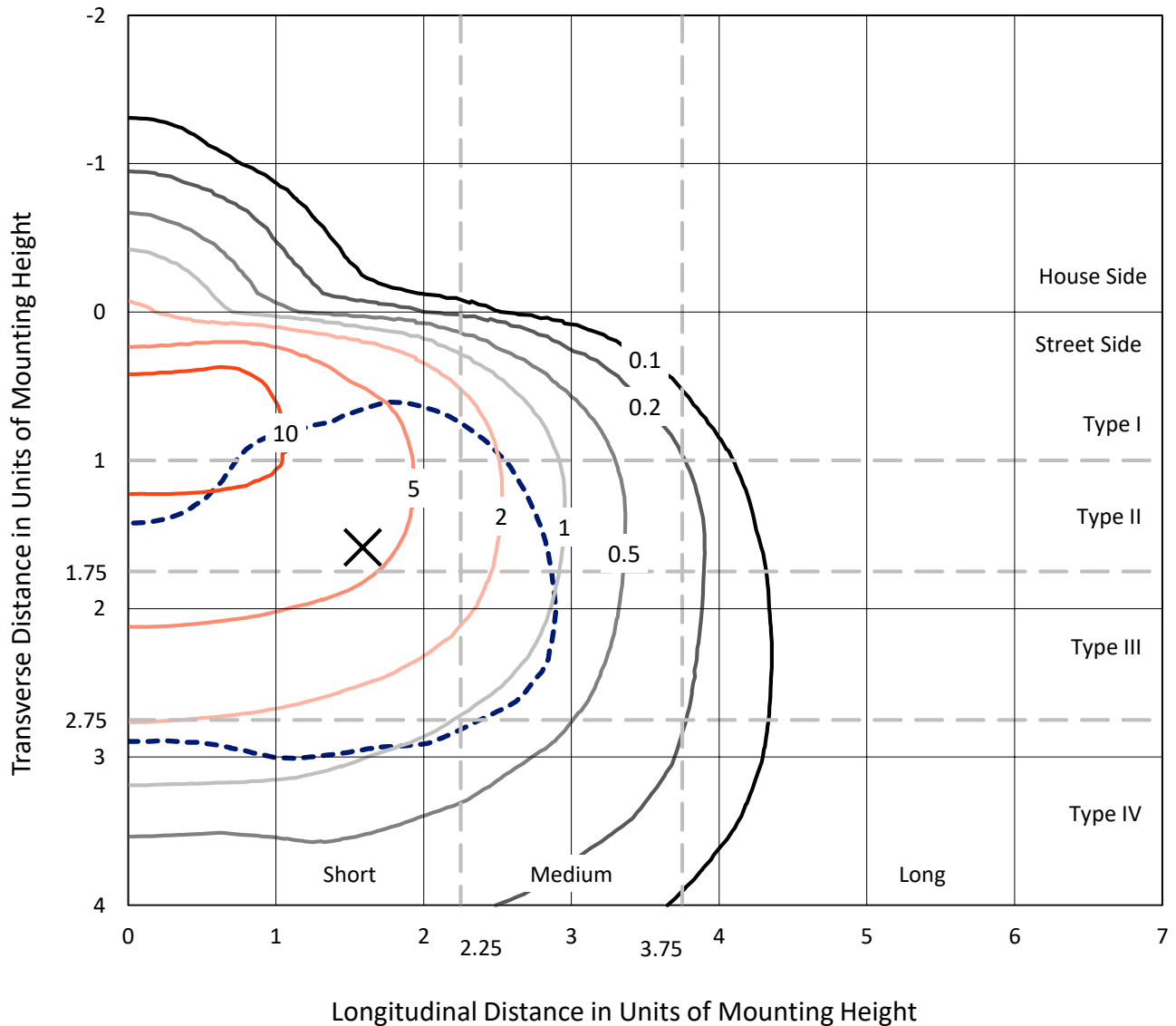
Lumens per Lamp: N/A  
Luminaire Lumens: 8832.3 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (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

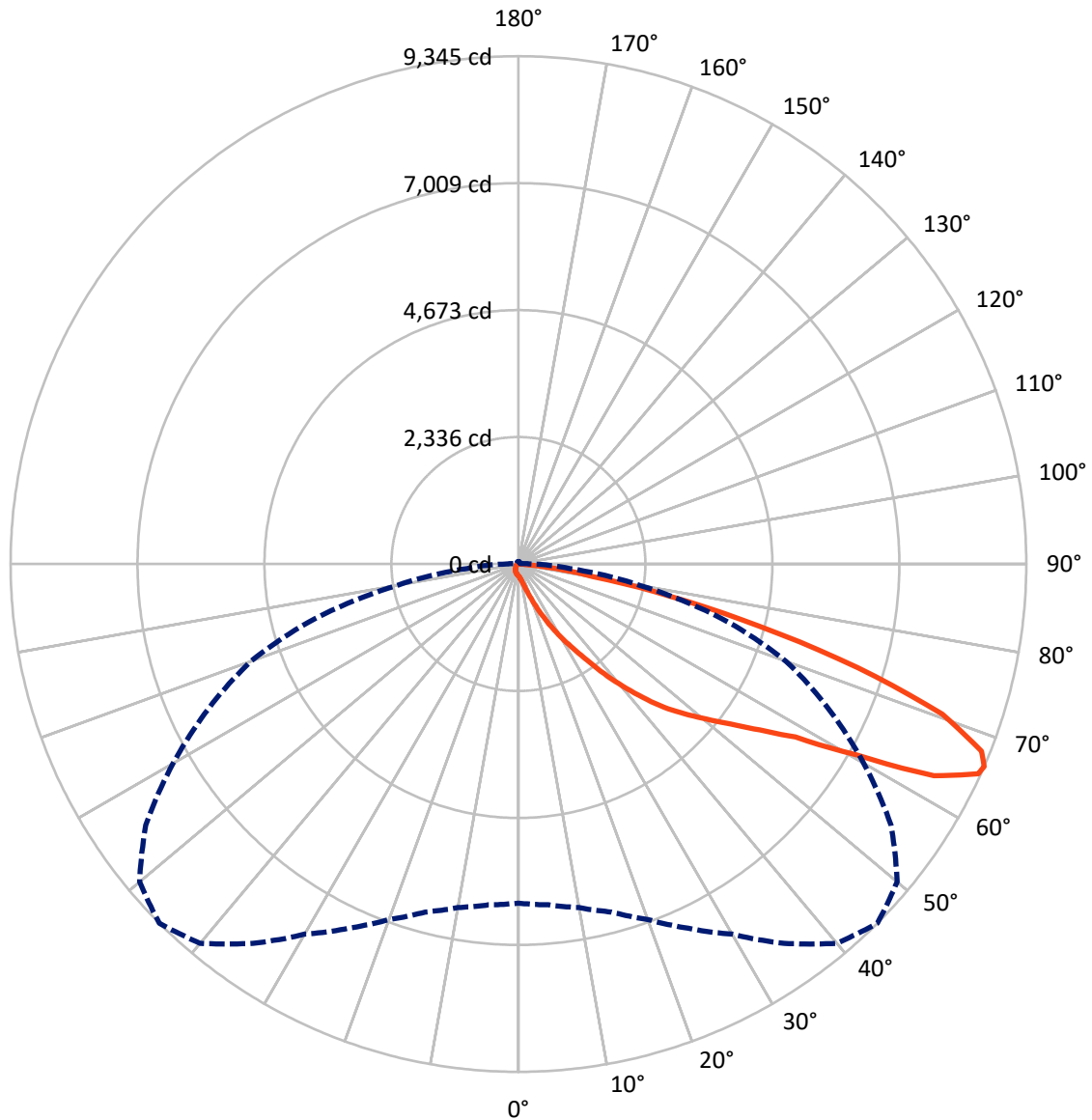
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	200.2	0.0	200.2
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	8632.1	0.0	8632.1
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	8832.3	0.0	8832.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.2	0.3
10°-20°	90.1	1.0
20°-30°	263.9	3.0
30°-40°	616.4	7.0
40°-50°	1157.8	13.1
50°-60°	1918.7	21.7
60°-70°	3045.8	34.5
70°-80°	1575.2	17.8
80°-90°	142.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8832.3	100.0
0°-180°	8832.3	100.0



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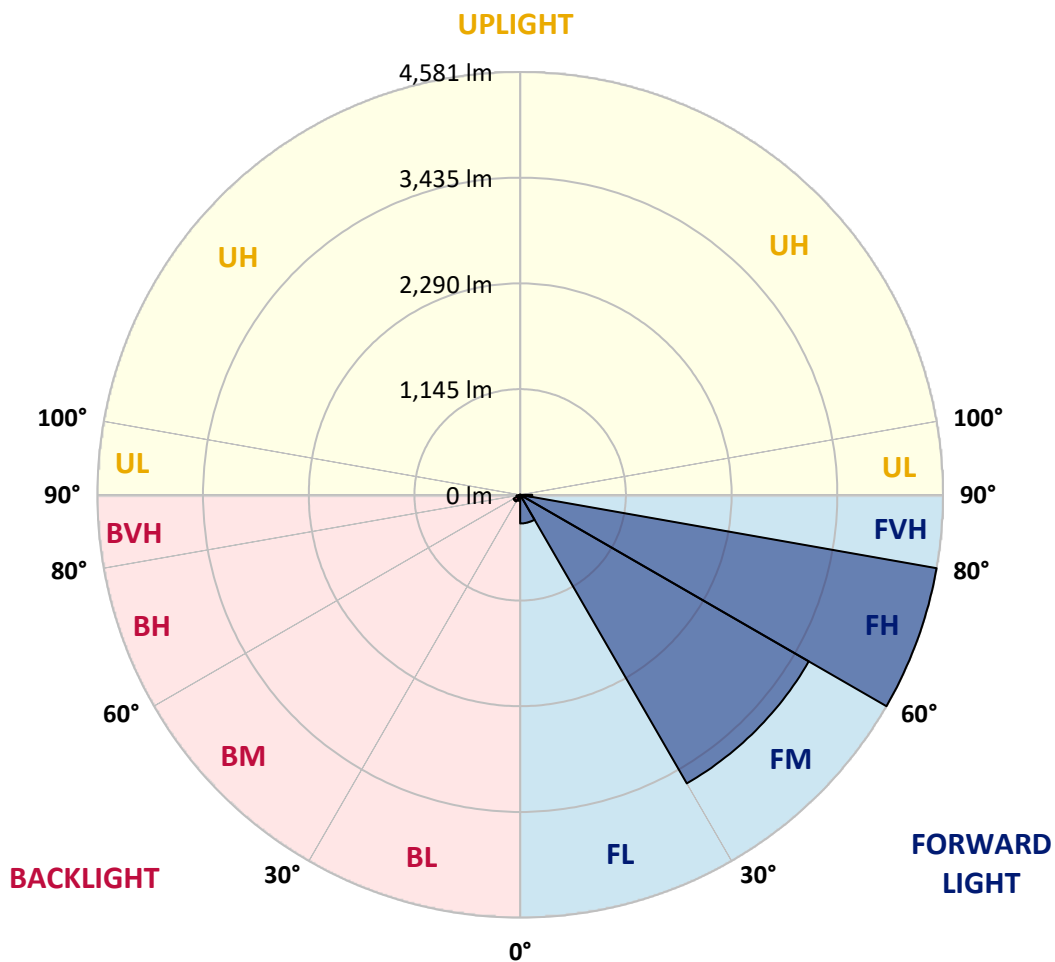
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	310.8	3.5			
FM	(30°-60°)	3609.8	40.9			
FH	(60°-80°)	4580.5	51.9			G2/5000
FVH	(80°-90°)	131.0	1.5			G2/225
BL	(0°-30°)	65.4	0.7	B0/110		
BM	(30°-60°)	83.0	0.9	B0/220		
BH	(60°-80°)	40.5	0.5	B0/110		G0/110
BVH	(80°-90°)	11.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7
2.5°	239.0	239.0	239.0	239.0	237.5	235.9	234.4	232.9	231.4	231.4	229.9
5°	271.0	272.5	271.0	269.4	266.4	264.9	260.3	257.3	252.7	251.2	246.6
7.5°	315.1	313.6	315.1	310.5	304.5	302.9	296.8	289.2	283.1	274.0	267.9
10°	379.0	377.5	379.0	369.9	360.8	353.2	342.5	333.4	319.7	309.0	296.8
12.5°	481.0	481.0	478.0	465.8	453.6	436.9	420.1	400.4	376.0	354.7	334.9
15°	637.8	630.2	616.5	608.9	587.6	561.7	543.4	503.9	468.9	435.4	395.8
17.5°	826.6	811.4	800.7	784.0	756.6	723.1	692.6	634.8	599.8	545.0	488.6
20°	1042.7	1024.5	1021.4	995.6	966.6	930.1	885.9	817.4	758.1	689.6	610.4
22.5°	1263.5	1266.5	1254.3	1236.1	1207.1	1164.5	1096.0	1033.6	960.5	873.8	771.8
25°	1510.1	1508.6	1497.9	1476.6	1455.3	1402.0	1347.2	1287.8	1201.1	1089.9	968.2
27.5°	1741.5	1739.9	1714.1	1715.6	1674.5	1654.7	1601.4	1537.5	1432.4	1339.6	1207.1
30°	1983.5	1968.3	1951.5	1939.3	1910.4	1875.4	1848.0	1771.9	1692.7	1583.1	1475.1
32.5°	2228.6	2211.8	2216.4	2201.2	2178.3	2143.3	2102.2	2039.8	1954.6	1848.0	1747.5
35°	2528.5	2520.8	2508.7	2513.2	2508.7	2482.8	2447.8	2365.6	2272.7	2170.7	2067.2
37.5°	2750.7	2743.1	2750.7	2782.7	2790.3	2807.0	2781.2	2740.1	2673.1	2561.9	2453.9
40°	2956.2	2957.7	2992.7	3032.3	3059.7	3114.5	3123.7	3106.9	3053.6	2951.6	2810.1
42.5°	3140.4	3163.2	3195.2	3260.7	3320.0	3397.7	3455.5	3464.6	3425.1	3358.1	3215.0
45°	3345.9	3365.7	3415.9	3493.6	3575.8	3671.7	3764.5	3813.2	3810.2	3763.0	3609.3
47.5°	3575.8	3601.6	3656.4	3720.4	3830.0	3938.1	4058.3	4145.1	4181.6	4116.2	3967.0
50°	3854.3	3865.0	3912.2	3994.4	4094.9	4219.7	4350.6	4476.9	4548.5	4487.6	4333.8
52.5°	4184.7	4187.7	4231.9	4308.0	4388.6	4525.7	4653.5	4828.6	4921.4	4887.9	4703.8
55°	4638.3	4629.2	4659.6	4725.1	4790.5	4923.0	5050.8	5248.7	5384.2	5387.2	5190.9
57.5°	5257.9	5236.5	5256.3	5308.1	5381.2	5504.5	5665.8	5840.9	6022.0	6009.8	5848.5
60°	6121.0	6113.4	6149.9	6236.7	6361.5	6489.4	6672.0	6908.0	7067.8	7122.6	6953.6
62.5°	6694.9	6716.2	6799.9	6933.9	7174.4	7439.2	7778.7	8139.5	8443.9	8580.9	8348.0
65°	6448.3	6483.3	6614.2	6812.1	7130.2	7527.5	7978.1	8570.3	9095.4	9304.0	9062.0
66°	6239.7	6296.0	6419.3	6629.4	6961.3	7395.1	7865.5	8520.0	9110.7	9345.1	9098.5
67.5°	5878.9	5918.5	6058.6	6291.5	6647.7	7076.9	7585.4	8276.5	8943.2	9191.3	8946.3
70°	5143.7	5158.9	5273.1	5471.0	5746.5	6186.4	6647.7	7312.9	7926.4	8275.0	8007.0
72.5°	3828.5	3849.8	4038.5	4399.3	4757.0	5006.7	5279.2	5812.0	6207.7	6533.5	6481.7
75°	1841.9	1851.1	1977.4	2504.1	3201.3	3499.7	3752.3	4164.9	4315.6	4588.1	4547.0
77.5°	1167.6	1187.4	1269.6	1397.4	1793.2	2147.9	2347.3	2583.3	2627.4	2857.3	2723.3
80°	321.2	373.0	455.2	669.8	1149.3	1370.0	1459.8	1450.7	1459.8	1389.8	1344.1
82.5°	65.5	63.9	77.6	120.3	506.9	797.7	861.6	733.7	729.2	701.8	724.6
85°	16.7	15.2	18.3	38.1	86.8	235.9	296.8	165.9	126.3	120.3	106.6
87.5°	4.6	4.6	4.6	7.6	9.1	12.2	16.7	12.2	9.1	9.1	9.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7
2.5°	228.3	228.3	226.8	225.3	225.3	223.8	222.2	220.7	219.2	217.7	216.2
5°	242.0	239.0	234.4	231.4	228.3	223.8	220.7	217.7	214.6	213.1	210.1
7.5°	260.3	252.7	246.6	237.5	231.4	225.3	219.2	214.6	210.1	207.0	204.0
10°	283.1	271.0	258.8	246.6	235.9	226.8	217.7	210.1	205.5	200.9	197.9
12.5°	312.1	293.8	277.0	258.8	242.0	228.3	216.2	207.0	200.9	196.4	191.8
15°	359.3	330.3	301.4	274.0	252.7	231.4	214.6	204.0	196.4	191.8	187.2
17.5°	433.8	382.1	336.4	298.4	263.3	235.9	214.6	200.9	191.8	185.7	181.1
20°	541.9	456.7	383.6	328.8	283.1	243.6	214.6	196.4	187.2	179.6	175.1
22.5°	669.8	563.2	462.8	371.4	306.0	254.2	214.6	191.8	181.1	175.1	169.0
25°	857.0	715.5	578.5	450.6	344.0	271.0	219.2	188.8	176.6	169.0	162.9
27.5°	1076.2	905.7	735.2	555.6	401.9	295.3	225.3	185.7	172.0	162.9	156.8
30°	1325.9	1137.1	928.6	695.7	478.0	327.3	235.9	184.2	165.9	156.8	149.2
32.5°	1596.8	1397.4	1169.1	875.3	590.6	376.0	249.6	182.7	159.8	149.2	140.0
35°	1919.6	1733.8	1455.3	1128.0	765.7	459.7	280.1	185.7	153.7	141.6	130.9
37.5°	2272.7	2074.8	1779.5	1395.9	939.2	554.1	302.9	181.1	143.1	130.9	120.3
40°	2628.9	2402.1	2102.2	1677.5	1160.0	669.8	331.9	176.6	132.4	120.3	109.6
42.5°	2976.0	2737.0	2411.2	1966.7	1392.9	806.8	368.4	176.6	124.8	109.6	98.9
45°	3339.8	3052.1	2695.9	2243.8	1624.2	963.6	420.1	175.1	115.7	100.5	88.3
47.5°	3683.8	3342.9	2933.4	2487.4	1872.4	1135.6	479.5	176.6	108.1	91.3	80.7
50°	4009.6	3618.4	3176.9	2705.0	2109.8	1321.3	552.6	178.1	100.5	83.7	73.1
52.5°	4365.8	3932.0	3438.8	2928.8	2344.3	1508.6	637.8	181.1	92.9	76.1	67.0
55°	4807.3	4326.2	3761.5	3202.8	2592.4	1697.3	720.0	184.2	85.2	70.0	60.9
57.5°	5443.6	4895.6	4285.1	3613.8	2921.2	1911.9	805.3	191.8	79.2	65.5	56.3
60°	6478.7	5825.7	5120.9	4329.3	3412.9	2202.7	928.6	208.5	71.5	59.4	53.3
62.5°	7723.9	6938.4	6041.8	5081.3	3875.6	2399.1	1010.8	226.8	65.5	54.8	50.2
65°	8351.1	7361.6	6328.0	5291.3	3935.0	2341.2	977.3	220.7	57.8	48.7	42.6
66°	8369.3	7338.8	6288.4	5245.7	3874.1	2271.2	945.3	217.7	56.3	47.2	39.6
67.5°	8195.8	7142.4	6078.3	5038.6	3694.5	2135.7	887.5	207.0	51.8	42.6	35.0
70°	7338.8	6312.8	5337.0	4376.5	3178.5	1799.3	744.4	182.7	45.7	38.1	32.0
72.5°	5850.0	5014.3	4192.3	3443.3	2470.6	1350.2	587.6	149.2	39.6	33.5	27.4
75°	4085.7	3399.2	2773.5	2239.2	1552.7	808.3	380.6	105.0	33.5	27.4	22.8
77.5°	2280.3	1808.4	1367.0	1041.2	619.6	252.7	126.3	53.3	28.9	21.3	18.3
80°	1160.0	860.1	654.6	482.6	286.2	130.9	63.9	35.0	22.8	16.7	15.2
82.5°	674.4	494.7	394.3	312.1	196.4	98.9	51.8	25.9	15.2	12.2	13.7
85°	150.7	199.4	169.0	143.1	105.0	62.4	36.5	16.7	10.7	10.7	12.2
87.5°	12.2	16.7	15.2	19.8	21.3	19.8	15.2	9.1	7.6	9.1	9.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7
2.5°	214.6	213.1	213.1	211.6	210.1	210.1	210.1	208.5	210.1	210.1	210.1
5°	208.5	207.0	205.5	204.0	202.5	200.9	200.9	199.4	199.4	199.4	200.9
7.5°	202.5	199.4	197.9	194.8	193.3	191.8	191.8	190.3	190.3	190.3	190.3
10°	194.8	191.8	188.8	187.2	185.7	182.7	182.7	181.1	179.6	179.6	179.6
12.5°	188.8	185.7	182.7	179.6	176.6	175.1	173.5	172.0	170.5	170.5	170.5
15°	182.7	178.1	175.1	172.0	169.0	165.9	164.4	162.9	161.4	159.8	159.8
17.5°	176.6	172.0	167.4	164.4	161.4	158.3	156.8	152.2	152.2	150.7	150.7
20°	169.0	164.4	159.8	156.8	153.7	150.7	147.7	144.6	141.6	140.0	140.0
22.5°	162.9	158.3	153.7	149.2	144.6	140.0	137.0	134.0	132.4	130.9	129.4
25°	156.8	150.7	144.6	140.0	135.5	130.9	127.9	124.8	121.8	120.3	120.3
27.5°	149.2	143.1	137.0	130.9	126.3	121.8	118.7	114.2	112.6	111.1	109.6
30°	141.6	134.0	127.9	121.8	117.2	111.1	108.1	105.0	102.0	102.0	100.5
32.5°	132.4	124.8	118.7	112.6	106.6	102.0	98.9	95.9	94.4	91.3	91.3
35°	123.3	115.7	108.1	102.0	97.4	92.9	89.8	86.8	83.7	82.2	82.2
37.5°	112.6	105.0	98.9	92.9	88.3	83.7	80.7	77.6	76.1	74.6	73.1
40°	100.5	92.9	88.3	83.7	79.2	76.1	71.5	68.5	67.0	65.5	63.9
42.5°	89.8	82.2	79.2	76.1	71.5	68.5	63.9	60.9	57.8	56.3	54.8
45°	80.7	74.6	71.5	68.5	63.9	59.4	56.3	53.3	50.2	48.7	48.7
47.5°	71.5	67.0	63.9	60.9	56.3	53.3	48.7	47.2	44.1	44.1	44.1
50°	65.5	60.9	57.8	54.8	51.8	47.2	44.1	42.6	41.1	41.1	42.6
52.5°	60.9	56.3	53.3	50.2	47.2	44.1	41.1	39.6	39.6	41.1	42.6
55°	56.3	51.8	48.7	45.7	42.6	41.1	38.1	38.1	39.6	41.1	42.6
57.5°	53.3	47.2	44.1	42.6	39.6	38.1	38.1	38.1	39.6	41.1	44.1
60°	48.7	42.6	39.6	39.6	36.5	36.5	36.5	38.1	39.6	42.6	44.1
62.5°	42.6	38.1	36.5	36.5	35.0	35.0	36.5	38.1	41.1	42.6	44.1
65°	36.5	33.5	33.5	33.5	33.5	35.0	36.5	38.1	39.6	42.6	44.1
66°	33.5	32.0	32.0	33.5	33.5	35.0	36.5	38.1	39.6	41.1	42.6
67.5°	32.0	30.4	30.4	32.0	33.5	33.5	35.0	38.1	39.6	41.1	41.1
70°	27.4	27.4	27.4	30.4	32.0	33.5	35.0	36.5	38.1	39.6	41.1
72.5°	24.4	24.4	25.9	27.4	30.4	32.0	33.5	35.0	38.1	39.6	39.6
75°	21.3	21.3	24.4	25.9	28.9	30.4	33.5	35.0	36.5	38.1	38.1
77.5°	18.3	19.8	22.8	25.9	27.4	30.4	32.0	33.5	35.0	36.5	36.5
80°	16.7	19.8	22.8	24.4	25.9	27.4	28.9	32.0	33.5	35.0	36.5
82.5°	16.7	18.3	21.3	22.8	24.4	27.4	28.9	30.4	32.0	33.5	35.0
85°	13.7	16.7	18.3	21.3	22.8	25.9	27.4	27.4	28.9	30.4	32.0
87.5°	10.7	12.2	12.2	15.2	16.7	19.8	22.8	22.8	24.4	25.9	27.4
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):**

	165°	170°	175°	180°
0°	220.7	220.7	220.7	220.7
2.5°	210.1	211.6	211.6	211.6
5°	200.9	200.9	200.9	200.9
7.5°	190.3	190.3	190.3	190.3
10°	179.6	179.6	181.1	179.6
12.5°	170.5	169.0	169.0	169.0
15°	159.8	159.8	158.3	159.8
17.5°	149.2	149.2	147.7	147.7
20°	138.5	138.5	138.5	138.5
22.5°	129.4	127.9	127.9	127.9
25°	118.7	118.7	118.7	118.7
27.5°	109.6	109.6	109.6	109.6
30°	100.5	100.5	98.9	98.9
32.5°	91.3	91.3	91.3	91.3
35°	82.2	82.2	80.7	80.7
37.5°	71.5	71.5	71.5	71.5
40°	62.4	62.4	62.4	62.4
42.5°	54.8	54.8	53.3	53.3
45°	47.2	47.2	47.2	47.2
47.5°	44.1	44.1	44.1	44.1
50°	42.6	44.1	44.1	44.1
52.5°	44.1	44.1	44.1	44.1
55°	44.1	45.7	45.7	45.7
57.5°	44.1	45.7	45.7	47.2
60°	45.7	47.2	47.2	47.2
62.5°	45.7	47.2	47.2	47.2
65°	44.1	45.7	45.7	45.7
66°	44.1	44.1	44.1	45.7
67.5°	42.6	44.1	44.1	44.1
70°	41.1	42.6	42.6	44.1
72.5°	41.1	42.6	42.6	42.6
75°	39.6	39.6	41.1	41.1
77.5°	38.1	38.1	39.6	39.6
80°	36.5	38.1	38.1	38.1
82.5°	35.0	36.5	36.5	36.5
85°	32.0	33.5	33.5	33.5
87.5°	27.4	27.4	28.9	28.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)