

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: P156278

Luminaire Tested: **AVM-E02-LED-E-U-T4-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156278  
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-E02-LED-E-U-T4-HSS-8030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

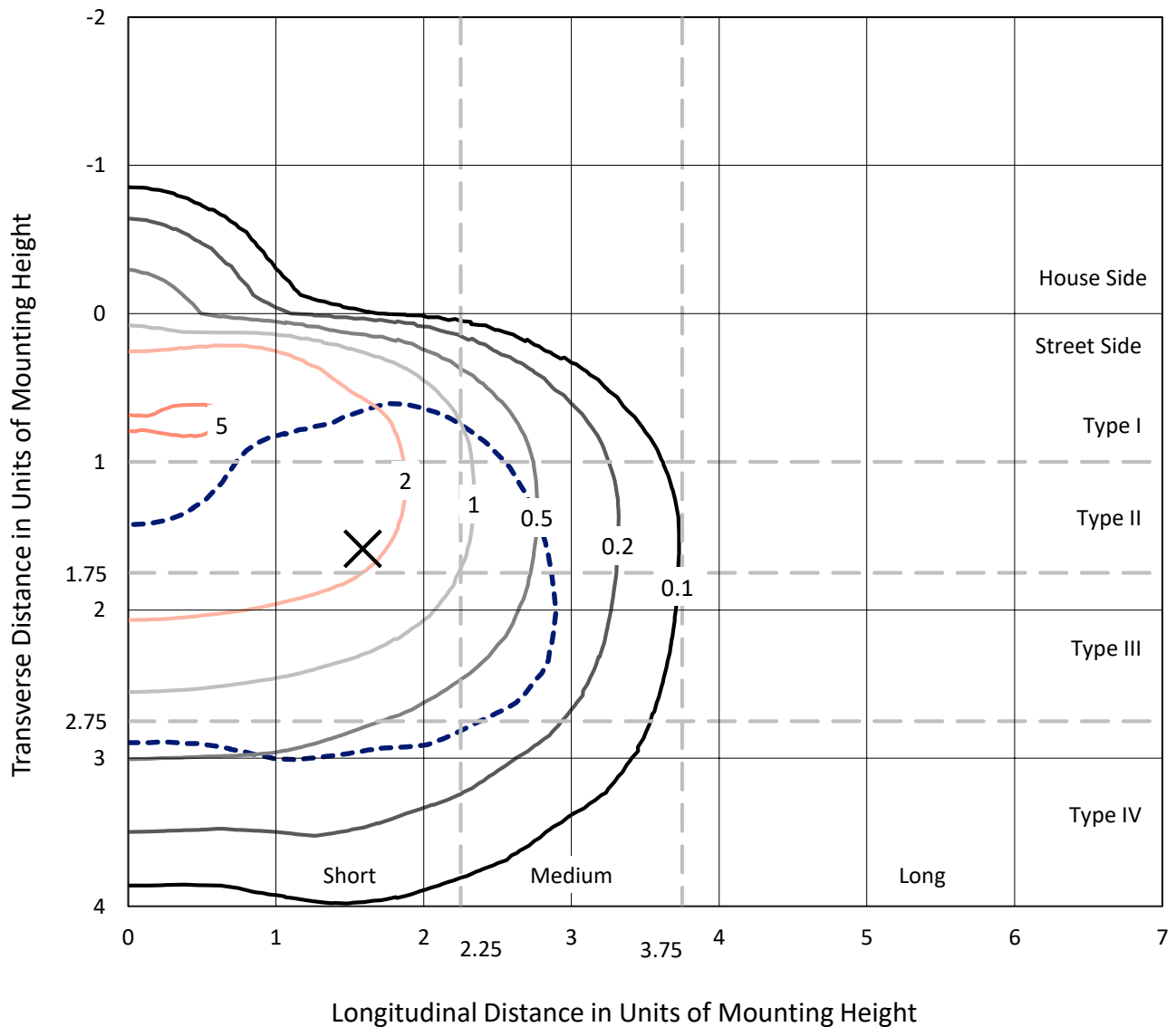
Lumens per Lamp: N/A  
Luminaire Lumens: 3264.6 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

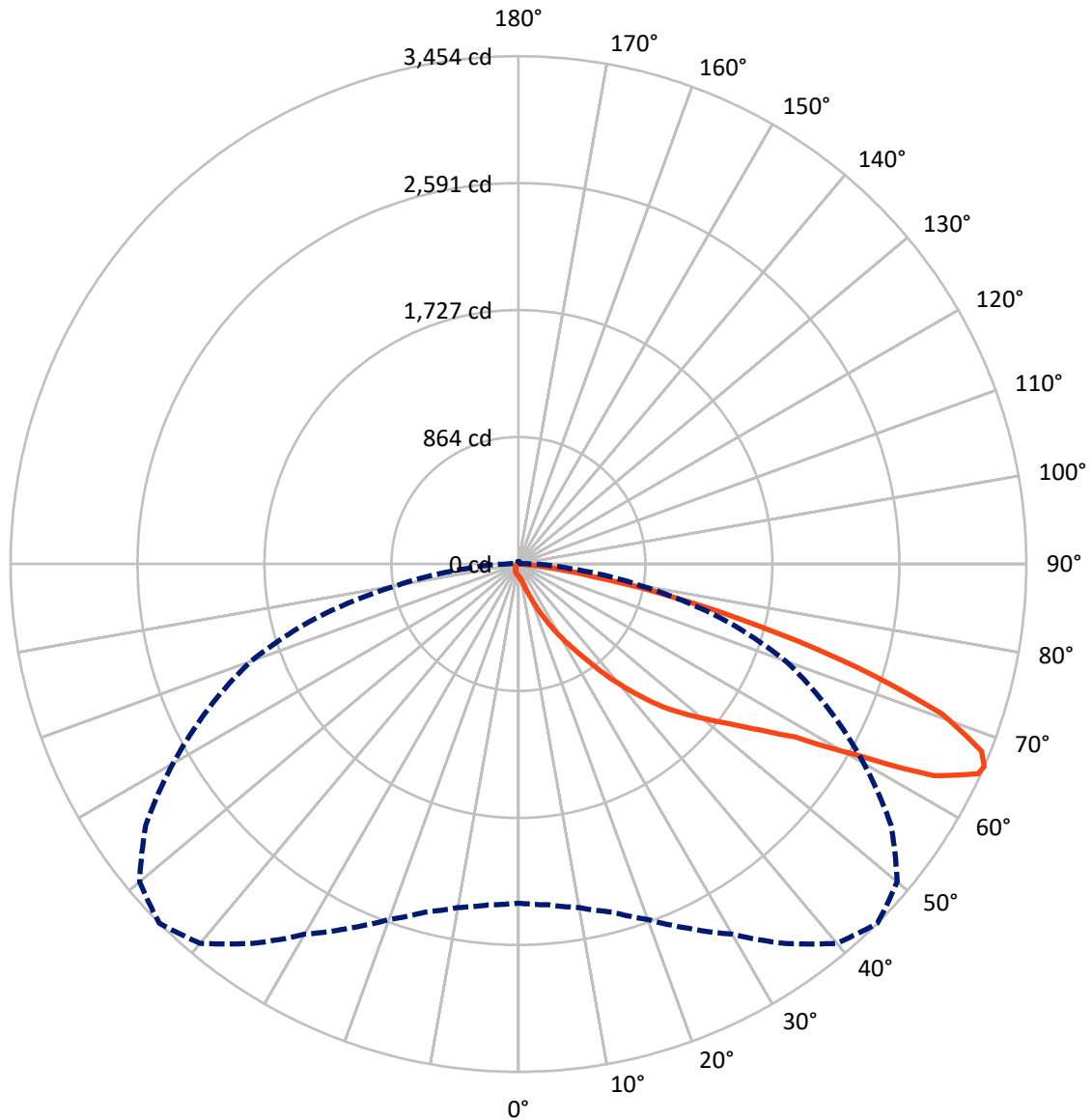
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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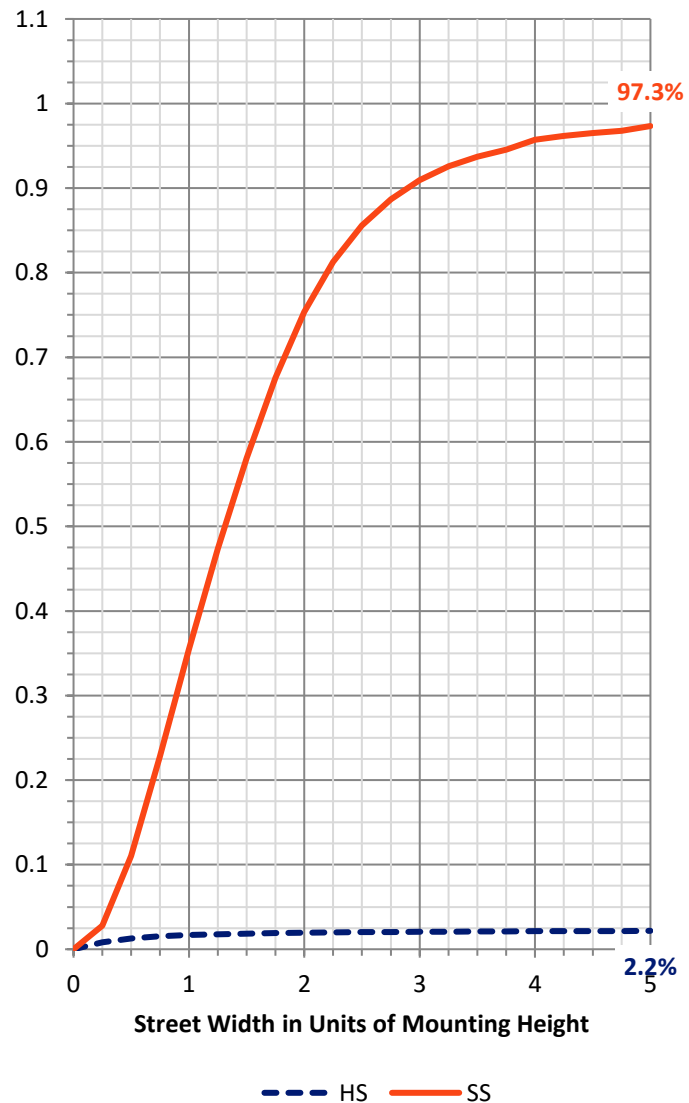
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	74.0	0.0	74.0
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	3190.6	0.0	3190.6
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	3264.6	0.0	3264.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.2	0.3
10°-20°	33.3	1.0
20°-30°	97.5	3.0
30°-40°	227.8	7.0
40°-50°	427.9	13.1
50°-60°	709.2	21.7
60°-70°	1125.8	34.5
70°-80°	582.2	17.8
80°-90°	52.6	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°	3264.6	100.0
0°-180°	3264.6	100.0

**Coefficient of Utilization**



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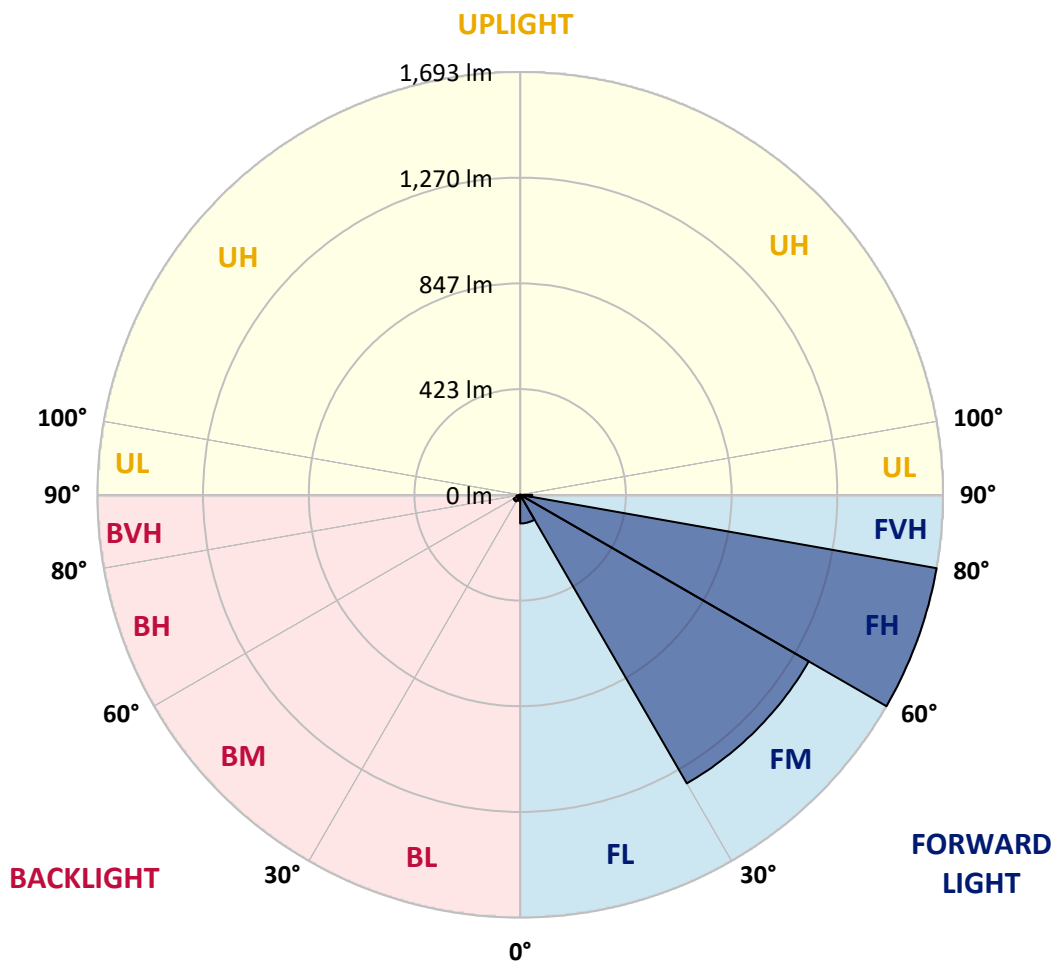
CATALOG NUMBER: AVM-E02-LED-E-U-T4-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	114.9	3.5			
FM	(30°-60°)	1334.3	40.9			
FH	(60°-80°)	1693.1	51.9			G1/1800
FVH	(80°-90°)	48.4	1.5			G1/100
BL	(0°-30°)	24.2	0.7	B0/110		
BM	(30°-60°)	30.7	0.9	B0/220		
BH	(60°-80°)	15.0	0.5	B0/110		G0/110
BVH	(80°-90°)	4.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	88.3	88.3	88.3	88.3	87.8	87.2	86.6	86.1	85.5	85.5	85.0
5°	100.2	100.7	100.2	99.6	98.5	97.9	96.2	95.1	93.4	92.8	91.2
7.5°	116.5	115.9	116.5	114.8	112.5	112.0	109.7	106.9	104.7	101.3	99.0
10°	140.1	139.5	140.1	136.7	133.4	130.5	126.6	123.2	118.2	114.2	109.7
12.5°	177.8	177.8	176.7	172.2	167.7	161.5	155.3	148.0	139.0	131.1	123.8
15°	235.8	232.9	227.9	225.1	217.2	207.6	200.9	186.2	173.3	160.9	146.3
17.5°	305.5	299.9	296.0	289.8	279.6	267.3	256.0	234.6	221.7	201.4	180.6
20°	385.4	378.7	377.5	368.0	357.3	343.8	327.5	302.1	280.2	254.9	225.6
22.5°	467.0	468.1	463.6	456.9	446.2	430.4	405.1	382.0	355.0	323.0	285.3
25°	558.2	557.6	553.7	545.8	537.9	518.2	498.0	476.0	443.9	402.9	357.9
27.5°	643.7	643.1	633.6	634.1	618.9	611.6	591.9	568.3	529.5	495.1	446.2
30°	733.1	727.5	721.3	716.8	706.1	693.2	683.1	654.9	625.7	585.2	545.2
32.5°	823.7	817.5	819.2	813.6	805.2	792.2	777.0	754.0	722.5	683.1	645.9
35°	934.6	931.8	927.3	929.0	927.3	917.7	904.8	874.4	840.1	802.4	764.1
37.5°	1016.7	1013.9	1016.7	1028.5	1031.4	1037.5	1028.0	1012.8	988.0	947.0	907.0
40°	1092.7	1093.2	1106.2	1120.8	1130.9	1151.2	1154.6	1148.4	1128.7	1091.0	1038.7
42.5°	1160.8	1169.2	1181.0	1205.2	1227.2	1255.9	1277.2	1280.6	1266.0	1241.2	1188.3
45°	1236.7	1244.0	1262.6	1291.3	1321.7	1357.1	1391.5	1409.5	1408.3	1390.9	1334.1
47.5°	1321.7	1331.3	1351.5	1375.1	1415.7	1455.6	1500.1	1532.1	1545.6	1521.4	1466.3
50°	1424.7	1428.6	1446.0	1476.4	1513.6	1559.7	1608.1	1654.8	1681.2	1658.7	1601.9
52.5°	1546.8	1547.9	1564.2	1592.3	1622.2	1672.8	1720.1	1784.8	1819.1	1806.7	1738.6
55°	1714.4	1711.1	1722.3	1746.5	1770.7	1819.6	1866.9	1940.1	1990.1	1991.3	1918.7
57.5°	1943.4	1935.6	1942.9	1962.0	1989.0	2034.6	2094.2	2158.9	2225.9	2221.4	2161.7
60°	2262.5	2259.6	2273.1	2305.2	2351.4	2398.6	2466.1	2553.4	2612.4	2632.7	2570.2
62.5°	2474.6	2482.5	2513.4	2562.9	2651.8	2749.7	2875.2	3008.5	3121.1	3171.7	3085.6
65°	2383.4	2396.4	2444.8	2517.9	2635.5	2782.4	2948.9	3167.8	3361.9	3439.0	3349.5
66°	2306.3	2327.2	2372.7	2450.4	2573.0	2733.4	2907.3	3149.2	3367.5	3454.2	3363.0
67.5°	2173.0	2187.6	2239.4	2325.5	2457.1	2615.8	2803.7	3059.2	3305.6	3397.3	3306.8
70°	1901.2	1906.9	1949.1	2022.2	2124.0	2286.7	2457.1	2703.0	2929.8	3058.6	2959.6
72.5°	1415.1	1423.0	1492.7	1626.1	1758.3	1850.6	1951.3	2148.2	2294.5	2414.9	2395.8
75°	680.8	684.2	730.9	925.6	1183.3	1293.6	1387.0	1539.4	1595.1	1695.9	1680.7
77.5°	431.6	438.9	469.3	516.5	662.8	793.9	867.6	954.8	971.2	1056.1	1006.6
80°	118.7	137.9	168.2	247.6	424.8	506.4	539.6	536.2	539.6	513.7	496.8
82.5°	24.2	23.6	28.7	44.5	187.4	294.8	318.5	271.2	269.5	259.4	267.8
85°	6.2	5.6	6.8	14.1	32.1	87.2	109.7	61.3	46.7	44.5	39.4
87.5°	1.7	1.7	1.7	2.8	3.4	4.5	6.2	4.5	3.4	3.4	3.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	84.4	84.4	83.8	83.3	83.3	82.7	82.1	81.6	81.0	80.5	79.9
5°	89.5	88.3	86.6	85.5	84.4	82.7	81.6	80.5	79.3	78.8	77.6
7.5°	96.2	93.4	91.2	87.8	85.5	83.3	81.0	79.3	77.6	76.5	75.4
10°	104.7	100.2	95.7	91.2	87.2	83.8	80.5	77.6	76.0	74.3	73.1
12.5°	115.3	108.6	102.4	95.7	89.5	84.4	79.9	76.5	74.3	72.6	70.9
15°	132.8	122.1	111.4	101.3	93.4	85.5	79.3	75.4	72.6	70.9	69.2
17.5°	160.4	141.2	124.3	110.3	97.3	87.2	79.3	74.3	70.9	68.6	67.0
20°	200.3	168.8	141.8	121.5	104.7	90.0	79.3	72.6	69.2	66.4	64.7
22.5°	247.6	208.2	171.0	137.3	113.1	94.0	79.3	70.9	67.0	64.7	62.5
25°	316.8	264.5	213.8	166.5	127.2	100.2	81.0	69.8	65.3	62.5	60.2
27.5°	397.8	334.8	271.8	205.4	148.5	109.2	83.3	68.6	63.6	60.2	58.0
30°	490.1	420.3	343.2	257.1	176.7	121.0	87.2	68.1	61.3	58.0	55.1
32.5°	590.2	516.5	432.1	323.5	218.3	139.0	92.3	67.5	59.1	55.1	51.8
35°	709.5	640.9	537.9	416.9	283.0	169.9	103.5	68.6	56.8	52.3	48.4
37.5°	840.1	766.9	657.8	516.0	347.2	204.8	112.0	67.0	52.9	48.4	44.5
40°	971.7	887.9	777.0	620.1	428.7	247.6	122.7	65.3	49.0	44.5	40.5
42.5°	1100.0	1011.7	891.3	727.0	514.8	298.2	136.2	65.3	46.1	40.5	36.6
45°	1234.5	1128.1	996.5	829.4	600.4	356.2	155.3	64.7	42.8	37.1	32.6
47.5°	1361.6	1235.6	1084.2	919.4	692.1	419.7	177.2	65.3	39.9	33.8	29.8
50°	1482.0	1337.4	1174.3	999.8	779.8	488.4	204.2	65.8	37.1	30.9	27.0
52.5°	1613.7	1453.4	1271.1	1082.6	866.5	557.6	235.8	67.0	34.3	28.1	24.8
55°	1776.9	1599.1	1390.3	1183.8	958.2	627.4	266.1	68.1	31.5	25.9	22.5
57.5°	2012.1	1809.5	1583.9	1335.8	1079.7	706.7	297.6	70.9	29.3	24.2	20.8
60°	2394.7	2153.3	1892.8	1600.2	1261.5	814.2	343.2	77.1	26.4	21.9	19.7
62.5°	2854.9	2564.6	2233.2	1878.2	1432.5	886.8	373.6	83.8	24.2	20.3	18.6
65°	3086.8	2721.0	2339.0	1955.8	1454.5	865.4	361.2	81.6	21.4	18.0	15.8
66°	3093.5	2712.6	2324.4	1938.9	1432.0	839.5	349.4	80.5	20.8	17.4	14.6
67.5°	3029.4	2640.0	2246.7	1862.4	1365.6	789.4	328.0	76.5	19.1	15.8	12.9
70°	2712.6	2333.4	1972.7	1617.6	1174.8	665.1	275.1	67.5	16.9	14.1	11.8
72.5°	2162.3	1853.4	1549.6	1272.7	913.2	499.1	217.2	55.1	14.6	12.4	10.1
75°	1510.2	1256.4	1025.2	827.7	573.9	298.8	140.7	38.8	12.4	10.1	8.4
77.5°	842.9	668.4	505.3	384.9	229.0	93.4	46.7	19.7	10.7	7.9	6.8
80°	428.7	317.9	241.9	178.4	105.8	48.4	23.6	12.9	8.4	6.2	5.6
82.5°	249.3	182.9	145.7	115.3	72.6	36.6	19.1	9.6	5.6	4.5	5.1
85°	55.7	73.7	62.5	52.9	38.8	23.1	13.5	6.2	3.9	3.9	4.5
87.5°	4.5	6.2	5.6	7.3	7.9	7.3	5.6	3.4	2.8	3.4	3.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	79.3	78.8	78.8	78.2	77.6	77.6	77.6	77.1	77.6	77.6	77.6
5°	77.1	76.5	76.0	75.4	74.8	74.3	74.3	73.7	73.7	73.7	74.3
7.5°	74.8	73.7	73.1	72.0	71.5	70.9	70.9	70.3	70.3	70.3	70.3
10°	72.0	70.9	69.8	69.2	68.6	67.5	67.5	67.0	66.4	66.4	66.4
12.5°	69.8	68.6	67.5	66.4	65.3	64.7	64.1	63.6	63.0	63.0	63.0
15°	67.5	65.8	64.7	63.6	62.5	61.3	60.8	60.2	59.6	59.1	59.1
17.5°	65.3	63.6	61.9	60.8	59.6	58.5	58.0	56.3	56.3	55.7	55.7
20°	62.5	60.8	59.1	58.0	56.8	55.7	54.6	53.5	52.3	51.8	51.8
22.5°	60.2	58.5	56.8	55.1	53.5	51.8	50.6	49.5	49.0	48.4	47.8
25°	58.0	55.7	53.5	51.8	50.1	48.4	47.3	46.1	45.0	44.5	44.5
27.5°	55.1	52.9	50.6	48.4	46.7	45.0	43.9	42.2	41.6	41.1	40.5
30°	52.3	49.5	47.3	45.0	43.3	41.1	39.9	38.8	37.7	37.7	37.1
32.5°	49.0	46.1	43.9	41.6	39.4	37.7	36.6	35.4	34.9	33.8	33.8
35°	45.6	42.8	39.9	37.7	36.0	34.3	33.2	32.1	30.9	30.4	30.4
37.5°	41.6	38.8	36.6	34.3	32.6	30.9	29.8	28.7	28.1	27.6	27.0
40°	37.1	34.3	32.6	30.9	29.3	28.1	26.4	25.3	24.8	24.2	23.6
42.5°	33.2	30.4	29.3	28.1	26.4	25.3	23.6	22.5	21.4	20.8	20.3
45°	29.8	27.6	26.4	25.3	23.6	21.9	20.8	19.7	18.6	18.0	18.0
47.5°	26.4	24.8	23.6	22.5	20.8	19.7	18.0	17.4	16.3	16.3	16.3
50°	24.2	22.5	21.4	20.3	19.1	17.4	16.3	15.8	15.2	15.2	15.8
52.5°	22.5	20.8	19.7	18.6	17.4	16.3	15.2	14.6	14.6	15.2	15.8
55°	20.8	19.1	18.0	16.9	15.8	15.2	14.1	14.1	14.6	15.2	15.8
57.5°	19.7	17.4	16.3	15.8	14.6	14.1	14.1	14.1	14.6	15.2	16.3
60°	18.0	15.8	14.6	14.6	13.5	13.5	13.5	14.1	14.6	15.8	16.3
62.5°	15.8	14.1	13.5	13.5	12.9	12.9	13.5	14.1	15.2	15.8	16.3
65°	13.5	12.4	12.4	12.4	12.4	12.9	13.5	14.1	14.6	15.8	16.3
66°	12.4	11.8	11.8	12.4	12.4	12.9	13.5	14.1	14.6	15.2	15.8
67.5°	11.8	11.3	11.3	11.8	12.4	12.4	12.9	14.1	14.6	15.2	15.2
70°	10.1	10.1	10.1	11.3	11.8	12.4	12.9	13.5	14.1	14.6	15.2
72.5°	9.0	9.0	9.6	10.1	11.3	11.8	12.4	12.9	14.1	14.6	14.6
75°	7.9	7.9	9.0	9.6	10.7	11.3	12.4	12.9	13.5	14.1	14.1
77.5°	6.8	7.3	8.4	9.6	10.1	11.3	11.8	12.4	12.9	13.5	13.5
80°	6.2	7.3	8.4	9.0	9.6	10.1	10.7	11.8	12.4	12.9	13.5
82.5°	6.2	6.8	7.9	8.4	9.0	10.1	10.7	11.3	11.8	12.4	12.9
85°	5.1	6.2	6.8	7.9	8.4	9.6	10.1	10.1	10.7	11.3	11.8
87.5°	3.9	4.5	4.5	5.6	6.2	7.3	8.4	8.4	9.0	9.6	10.1
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):**

	165°	170°	175°	180°
0°	81.6	81.6	81.6	81.6
2.5°	77.6	78.2	78.2	78.2
5°	74.3	74.3	74.3	74.3
7.5°	70.3	70.3	70.3	70.3
10°	66.4	66.4	67.0	66.4
12.5°	63.0	62.5	62.5	62.5
15°	59.1	59.1	58.5	59.1
17.5°	55.1	55.1	54.6	54.6
20°	51.2	51.2	51.2	51.2
22.5°	47.8	47.3	47.3	47.3
25°	43.9	43.9	43.9	43.9
27.5°	40.5	40.5	40.5	40.5
30°	37.1	37.1	36.6	36.6
32.5°	33.8	33.8	33.8	33.8
35°	30.4	30.4	29.8	29.8
37.5°	26.4	26.4	26.4	26.4
40°	23.1	23.1	23.1	23.1
42.5°	20.3	20.3	19.7	19.7
45°	17.4	17.4	17.4	17.4
47.5°	16.3	16.3	16.3	16.3
50°	15.8	16.3	16.3	16.3
52.5°	16.3	16.3	16.3	16.3
55°	16.3	16.9	16.9	16.9
57.5°	16.3	16.9	16.9	17.4
60°	16.9	17.4	17.4	17.4
62.5°	16.9	17.4	17.4	17.4
65°	16.3	16.9	16.9	16.9
66°	16.3	16.3	16.3	16.9
67.5°	15.8	16.3	16.3	16.3
70°	15.2	15.8	15.8	16.3
72.5°	15.2	15.8	15.8	15.8
75°	14.6	14.6	15.2	15.2
77.5°	14.1	14.1	14.6	14.6
80°	13.5	14.1	14.1	14.1
82.5°	12.9	13.5	13.5	13.5
85°	11.8	12.4	12.4	12.4
87.5°	10.1	10.1	10.7	10.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)