

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: P180781

Luminaire Tested: **ICM-F03-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180781  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F03-LED-E1-SL4-HSS-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3956.5 lumens  
Efficiency: N/A  
Efficacy: 50.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 78.3  
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: 25 FT

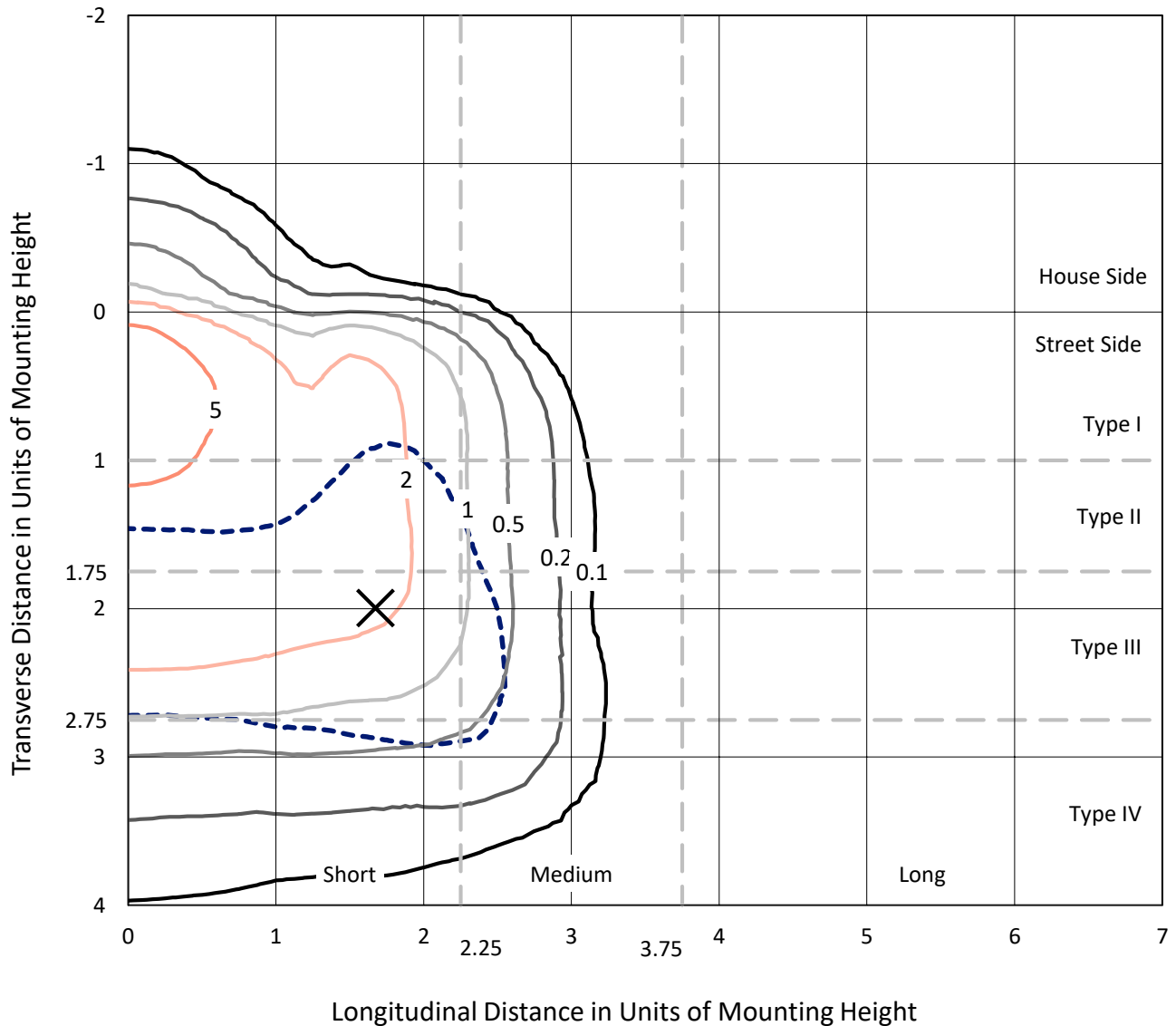


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### Iso-Footcandle Lines of Horizontal Illumination

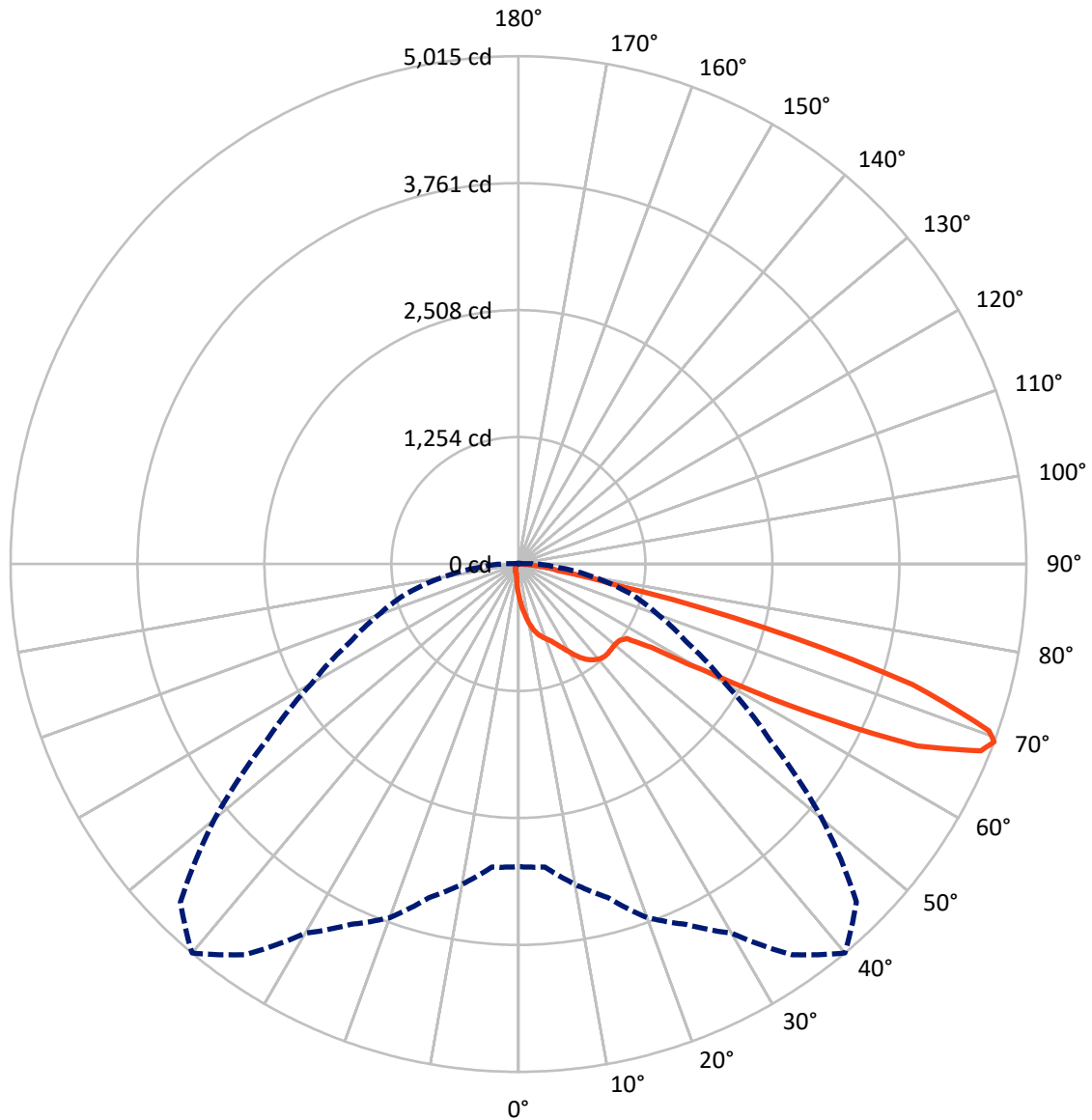
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	117.9	0.0	117.9
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	3838.7	0.0	3838.7
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	3956.5	0.0	3956.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.7	0.8
10°-20°	105.9	2.7
20°-30°	202.7	5.1
30°-40°	337.0	8.5
40°-50°	456.0	11.5
50°-60°	713.2	18.0
60°-70°	1466.3	37.1
70°-80°	590.0	14.9
80°-90°	54.6	1.4
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°	3956.5	100.0
0°-180°	3956.5	100.0



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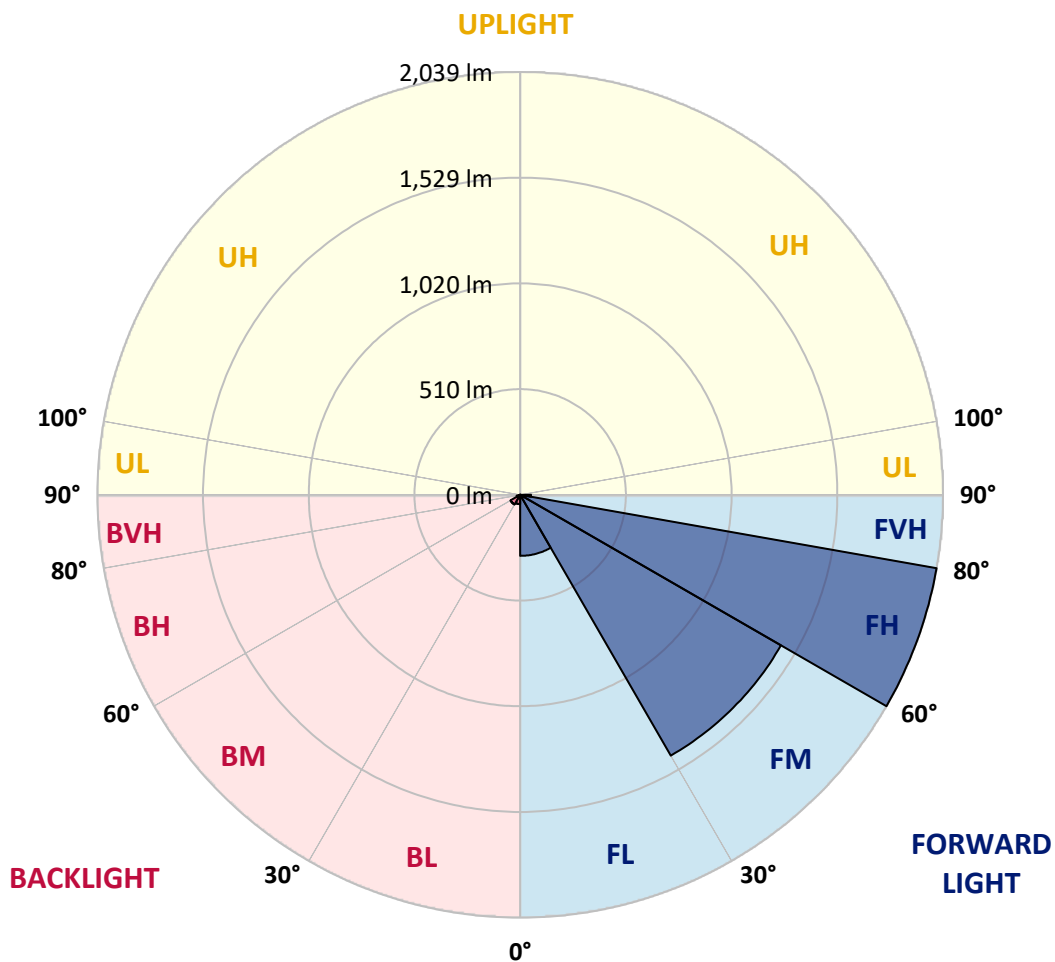
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.4	7.4			
FM	(30°-60°)	1452.5	36.7			
FH	(60°-80°)	2039.2	51.5			G2/5000
FVH	(80°-90°)	52.6	1.3			G1/100
BL	(0°-30°)	44.8	1.1	B0/110		
BM	(30°-60°)	53.8	1.4	B0/220		
BH	(60°-80°)	17.2	0.4	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	398.6	394.0	388.8	388.8	382.4	382.4	378.5	368.1	366.9	361.0	355.2
5°	508.7	504.9	498.4	492.6	487.4	478.3	471.8	459.5	446.0	432.9	421.3
7.5°	616.4	614.4	602.8	600.8	592.4	577.5	564.6	546.3	523.1	504.9	483.5
10°	716.2	711.6	709.0	698.1	685.7	669.5	649.4	627.4	600.2	571.6	541.2
12.5°	795.3	792.7	781.0	776.5	763.5	747.3	722.1	693.5	666.2	629.3	593.7
15°	854.2	849.7	842.0	834.8	819.3	804.9	781.7	750.5	717.5	677.3	634.5
17.5°	903.4	895.1	893.1	882.1	865.9	849.0	823.2	794.6	755.7	715.5	668.8
20°	969.6	958.0	954.1	937.9	919.1	895.7	865.9	830.2	789.4	745.3	697.4
22.5°	1047.4	1039.0	1030.5	1016.3	992.3	959.3	915.8	876.9	825.0	776.5	724.7
25°	1157.6	1150.4	1136.8	1117.4	1087.5	1048.0	995.5	938.5	877.6	815.4	754.4
27.5°	1264.5	1258.1	1248.3	1233.4	1199.7	1156.3	1091.4	1018.9	941.8	866.5	799.2
30°	1364.9	1359.2	1349.4	1334.5	1304.7	1261.9	1188.7	1110.9	1015.0	927.4	846.4
32.5°	1473.2	1471.3	1460.2	1438.9	1412.9	1355.3	1275.5	1191.9	1094.7	993.6	899.0
35°	1595.7	1580.8	1570.4	1549.0	1504.9	1443.4	1350.1	1258.7	1156.3	1052.6	946.9
37.5°	1699.4	1685.1	1672.2	1644.9	1591.2	1512.8	1407.1	1306.6	1201.0	1095.4	987.7
40°	1775.3	1768.1	1752.6	1716.9	1656.7	1563.3	1449.2	1339.7	1233.4	1127.1	1020.8
42.5°	1831.6	1820.6	1803.1	1766.2	1694.9	1588.6	1466.1	1353.3	1248.3	1146.5	1042.2
45°	1852.4	1843.3	1827.1	1786.9	1709.8	1595.7	1465.4	1349.4	1248.9	1152.4	1056.5
47.5°	1840.0	1831.0	1816.7	1779.1	1703.3	1587.3	1453.8	1338.4	1242.4	1154.3	1069.4
50°	1799.2	1794.1	1783.0	1751.3	1683.2	1571.1	1443.4	1332.6	1241.1	1164.0	1087.5
52.5°	1795.4	1792.1	1778.4	1746.7	1677.4	1565.9	1442.1	1335.8	1252.2	1176.4	1100.6
55°	2193.9	2147.9	2044.8	1957.3	1813.5	1642.3	1507.5	1388.3	1298.9	1224.9	1171.8
57.5°	3118.2	3049.4	2914.0	2747.5	2416.9	2092.2	1832.3	1644.3	1551.6	1518.0	1538.1
60°	3551.1	3538.8	3517.4	3438.3	3269.1	2989.8	2678.7	2342.3	2207.5	2195.8	2236.7
62.5°	3756.6	3748.8	3755.3	3745.5	3693.0	3611.4	3522.0	3376.8	3243.3	3157.0	2974.3
65°	3851.2	3856.4	3893.3	3922.4	3929.0	3950.3	4015.8	4196.7	4328.9	4106.5	3599.1
67.5°	3610.7	3641.2	3726.1	3832.4	3956.9	4077.4	4271.8	4653.0	4924.5	4663.3	3942.5
69°	2989.1	3004.1	3211.5	3411.7	3715.7	3928.3	4210.3	4710.0	5015.2	4720.3	3915.4
70°	2353.3	2367.0	2589.3	2861.5	3375.5	3649.0	4017.8	4613.4	4930.4	4644.5	3775.4
72.5°	1061.7	1042.2	1120.7	1266.4	1825.1	2259.4	2904.3	3737.8	4067.7	3721.0	2824.6
75°	741.5	733.0	741.5	742.1	828.9	1069.4	1349.4	2026.1	2505.7	2162.2	1349.4
77.5°	574.2	568.4	562.6	556.1	566.4	634.5	661.8	718.8	933.3	882.8	514.6
80°	454.3	449.1	463.4	458.9	458.9	466.6	461.5	440.1	399.9	370.7	331.8
82.5°	211.3	212.6	212.6	230.7	278.0	324.7	339.6	318.2	282.6	240.5	193.8
85°	20.1	22.7	38.2	59.0	117.3	132.2	132.8	110.1	110.1	86.9	70.0
87.5°	0.0	0.7	0.7	0.7	5.9	16.2	13.6	3.9	2.0	2.0	3.3
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°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	344.8	342.9	335.1	327.4	320.2	312.4	305.3	298.1	290.3	284.6	277.4
5°	403.2	388.8	372.7	357.1	341.6	325.4	308.5	293.6	278.0	263.8	250.1
7.5°	462.1	434.2	412.2	384.4	359.1	333.8	310.4	286.5	264.5	243.7	224.3
10°	512.0	478.3	444.0	408.3	372.0	338.3	306.0	277.4	248.2	223.0	199.0
12.5°	552.8	510.0	467.9	423.3	382.4	339.6	299.4	265.1	230.7	202.2	177.6
15°	589.8	540.6	490.0	438.1	386.3	337.7	292.9	250.1	215.2	182.8	154.9
17.5°	619.6	563.3	506.2	447.8	392.1	335.1	284.6	239.8	199.0	165.3	138.0
20°	645.5	586.5	525.0	459.5	396.0	334.4	277.4	226.9	184.7	149.0	122.5
22.5°	669.5	610.5	544.5	474.4	401.9	333.8	270.9	217.1	172.4	136.7	110.1
25°	696.7	634.5	565.2	490.0	412.2	336.4	267.1	209.3	161.4	125.1	100.5
27.5°	727.2	661.8	589.8	509.4	425.9	341.6	265.8	200.9	151.6	114.0	92.7
30°	770.0	694.1	614.4	528.8	438.1	347.4	264.5	195.7	142.0	105.7	84.9
32.5°	807.5	725.9	641.7	548.9	451.7	353.2	263.8	188.7	132.8	97.2	79.1
35°	847.1	755.1	665.0	568.4	463.4	359.7	263.2	183.4	124.5	88.8	73.2
37.5°	881.5	779.7	683.2	585.3	476.4	365.6	263.8	178.9	116.7	81.7	68.1
40°	910.6	804.9	703.3	600.8	490.0	374.6	264.5	174.3	108.9	75.2	63.5
42.5°	936.6	828.9	724.7	618.3	505.6	385.0	268.3	170.4	102.4	69.4	59.0
45°	956.7	851.0	747.9	643.0	530.8	401.9	275.4	167.9	95.9	64.2	55.1
47.5°	977.4	883.4	787.4	681.9	567.7	428.4	287.8	167.3	90.7	60.3	51.8
50°	1005.9	915.8	822.5	721.4	601.5	455.6	302.7	167.9	84.3	56.4	48.7
52.5°	1026.6	948.8	867.8	790.1	681.9	538.6	360.4	179.5	81.0	53.1	44.7
55°	1149.1	1135.5	1137.5	1150.4	1066.8	916.5	602.8	259.3	95.3	60.3	44.1
57.5°	1620.3	1668.3	1696.2	1695.5	1557.5	1291.7	809.5	333.1	106.3	70.0	52.5
60°	2239.9	2203.6	2152.5	2026.1	1842.6	1474.5	905.4	358.4	92.0	55.7	48.0
62.5°	2787.6	2575.0	2386.4	2181.6	1941.1	1538.1	924.8	356.5	80.4	42.1	33.7
65°	3129.1	2746.8	2442.2	2185.5	1902.2	1484.8	875.0	327.4	68.1	34.3	27.9
67.5°	3210.8	2654.1	2223.1	1895.8	1589.2	1155.6	642.3	246.3	53.1	28.6	24.7
69°	3032.6	2359.2	1842.0	1470.6	1156.3	766.7	397.3	155.5	40.8	26.0	22.7
70°	2789.5	2052.0	1500.4	1180.3	856.2	538.6	278.0	109.5	33.0	24.0	20.7
72.5°	1794.7	1077.9	737.6	513.3	353.2	214.5	108.9	49.3	25.3	20.1	16.8
75°	696.1	398.6	289.0	219.7	171.7	119.3	66.1	31.7	21.4	16.8	12.9
77.5°	342.9	262.5	214.5	147.2	85.6	53.1	35.6	24.7	17.5	12.3	8.5
80°	270.9	180.2	107.6	66.8	50.5	38.2	27.3	20.1	12.9	7.8	5.9
82.5°	138.7	75.8	55.7	45.4	37.6	29.8	22.0	14.2	8.5	5.2	4.6
85°	43.4	31.7	28.6	27.9	26.0	21.4	15.5	9.1	5.2	3.3	3.3
87.5°	3.3	4.6	5.9	4.6	5.2	4.6	5.9	3.9	2.6	2.6	2.0
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°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	272.2	264.5	257.3	252.7	244.4	241.1	237.9	236.6	230.7	232.0	226.9
5°	237.9	224.3	213.9	203.5	193.8	186.7	180.8	173.7	167.9	165.3	160.1
7.5°	206.8	189.2	175.6	164.7	152.9	143.9	136.1	130.9	125.8	120.6	118.0
10°	179.5	160.7	145.2	134.1	123.2	115.3	109.5	105.7	102.4	100.5	99.8
12.5°	154.2	136.1	121.9	112.1	103.7	99.8	97.2	95.3	94.6	94.0	94.0
15°	134.8	116.7	105.7	98.5	94.6	92.7	92.0	90.7	89.4	88.8	88.8
17.5°	116.7	103.1	95.3	91.3	89.4	88.2	86.9	85.6	84.3	83.6	83.6
20°	104.4	93.3	89.4	86.9	84.9	83.6	81.7	80.4	79.7	79.1	78.4
22.5°	94.6	87.5	84.9	83.0	80.4	78.4	77.1	75.8	74.5	73.9	73.2
25°	87.5	83.0	81.0	78.4	75.8	73.9	71.9	70.0	68.7	68.1	66.8
27.5°	82.3	79.1	76.5	73.2	70.6	68.7	66.8	64.8	63.5	62.2	61.6
30°	77.8	74.5	71.3	68.7	65.5	63.5	60.9	59.0	58.3	57.0	55.7
32.5°	73.2	70.0	66.8	63.5	60.3	57.7	56.4	53.8	52.5	51.8	50.5
35°	68.1	64.8	60.9	58.3	55.1	52.5	50.5	48.7	47.3	46.0	45.4
37.5°	63.5	59.6	55.7	52.5	49.9	47.3	45.4	43.4	42.1	40.8	40.2
40°	58.3	54.4	50.5	47.3	44.7	42.8	40.8	38.9	37.6	36.9	36.9
42.5°	53.8	49.3	45.4	42.8	40.8	38.2	36.3	34.3	33.7	33.0	33.7
45°	49.3	44.7	41.5	38.9	36.9	34.3	32.4	31.1	30.4	31.1	31.7
47.5°	45.4	40.8	37.6	35.6	33.7	31.7	29.8	28.6	28.6	29.8	31.1
50°	41.5	36.9	34.3	33.0	31.1	29.2	26.6	26.0	26.6	27.9	29.2
52.5°	37.6	32.4	30.4	29.8	27.9	26.0	24.0	23.3	24.0	25.3	24.7
55°	33.7	28.6	27.9	27.3	25.3	22.7	20.7	20.7	20.7	20.1	18.8
57.5°	32.4	25.3	24.7	24.0	22.0	19.4	18.1	16.8	16.2	14.2	13.6
60°	33.7	22.7	22.7	21.4	19.4	16.8	14.9	12.9	11.6	10.3	10.3
62.5°	27.3	20.7	20.1	18.8	16.2	13.6	11.6	9.8	9.1	8.5	8.5
65°	22.0	18.8	17.5	15.5	13.6	11.0	9.1	7.8	7.2	7.2	7.8
67.5°	20.1	16.8	14.9	12.9	11.0	8.5	7.2	6.5	6.5	7.2	7.2
69°	18.8	15.5	13.6	11.6	9.8	7.8	6.5	6.5	6.5	6.5	7.2
70°	17.5	14.9	12.9	11.0	8.5	6.5	5.9	5.9	6.5	6.5	7.2
72.5°	13.6	11.6	11.0	9.1	6.5	5.9	5.2	5.9	5.9	6.5	6.5
75°	10.3	8.5	8.5	7.2	5.2	4.6	4.6	5.2	5.2	5.9	5.9
77.5°	7.2	5.9	5.9	5.2	4.6	3.9	3.9	4.6	5.2	5.2	5.9
80°	5.2	4.6	3.9	4.6	3.9	3.3	3.9	4.6	4.6	5.2	5.2
82.5°	3.9	3.9	3.9	3.9	3.3	3.3	3.9	3.9	4.6	5.2	5.2
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9	3.9	4.6	4.6
87.5°	2.0	2.0	2.0	2.6	2.6	3.3	3.3	3.3	3.3	3.9	3.9
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°	298.8	298.8	298.8	298.8
2.5°	225.6	224.9	222.3	223.0
5°	158.1	154.2	156.8	156.2
7.5°	116.0	115.3	114.7	116.0
10°	99.2	99.2	98.5	99.2
12.5°	93.3	93.3	93.3	93.3
15°	88.8	88.8	88.2	88.2
17.5°	83.6	83.6	83.6	83.0
20°	78.4	77.8	77.8	77.8
22.5°	72.6	71.9	71.9	71.9
25°	66.8	66.1	66.1	66.1
27.5°	60.9	60.3	59.6	59.6
30°	55.1	54.4	53.8	53.8
32.5°	49.3	48.7	48.0	48.0
35°	44.1	44.1	43.4	42.8
37.5°	39.5	39.5	39.5	39.5
40°	36.3	36.9	36.9	36.9
42.5°	34.3	35.0	35.6	36.3
45°	33.0	34.3	35.0	35.0
47.5°	32.4	33.0	33.7	33.7
50°	29.8	29.2	29.2	29.2
52.5°	24.0	22.7	22.0	21.4
55°	17.5	16.8	15.5	15.5
57.5°	12.3	12.3	11.6	11.6
60°	9.8	9.8	9.1	9.8
62.5°	8.5	8.5	8.5	8.5
65°	7.8	7.8	7.8	7.8
67.5°	7.8	7.8	7.8	7.8
69°	7.2	7.2	7.2	7.2
70°	7.2	7.2	7.2	7.2
72.5°	6.5	6.5	6.5	6.5
75°	5.9	6.5	6.5	6.5
77.5°	5.9	5.9	5.9	5.9
80°	5.2	5.2	5.9	5.9
82.5°	5.2	5.2	5.2	5.2
85°	4.6	4.6	5.2	5.2
87.5°	3.9	3.9	4.6	4.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)