

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: P139449

Luminaire Tested: **ENT-E02-LED-E1-BL2-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P139449  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33644)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-E02-LED-E1-BL2-7030  
Description: ENTRI LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5001.7 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

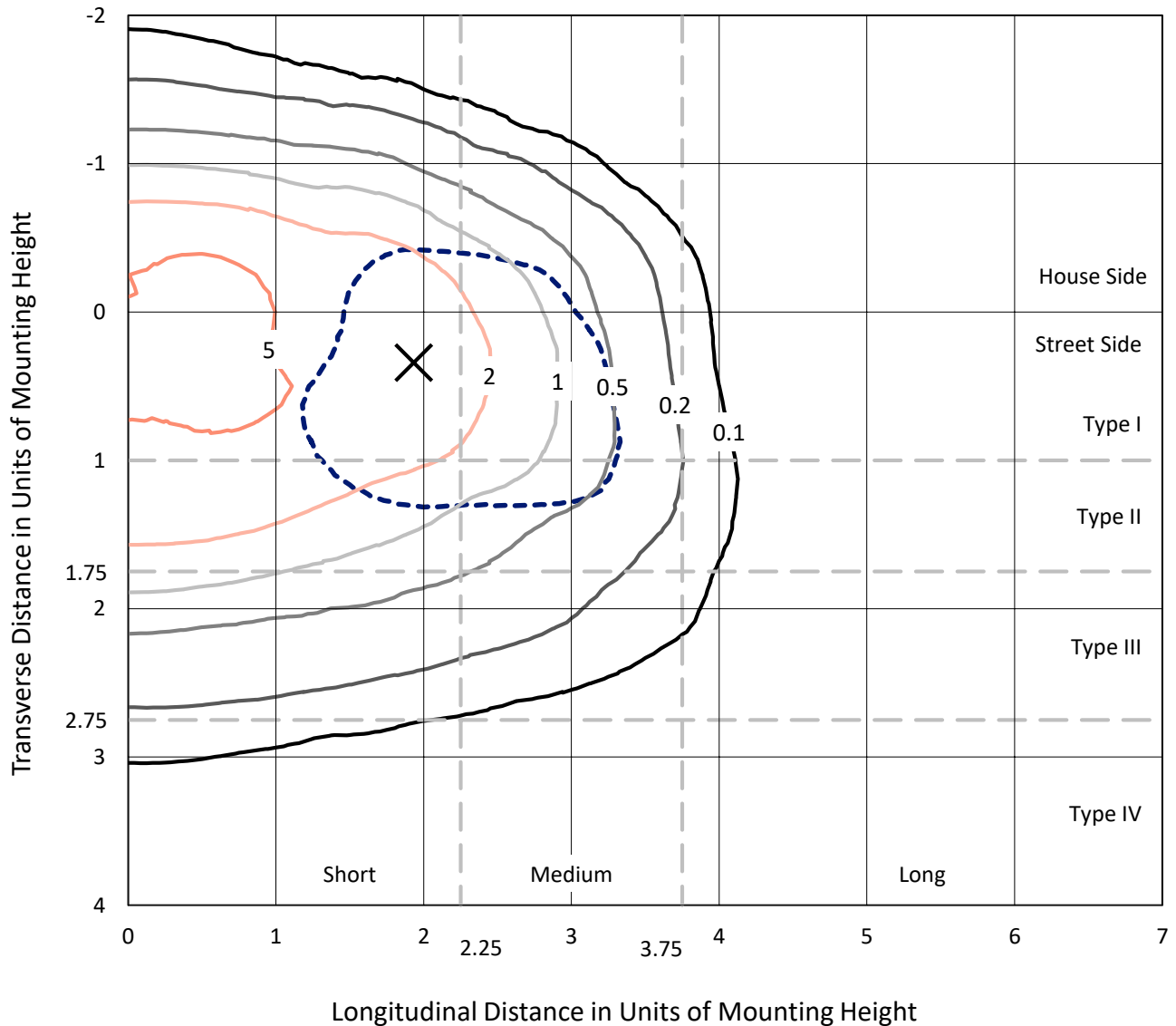
Input Watts (W): 46.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

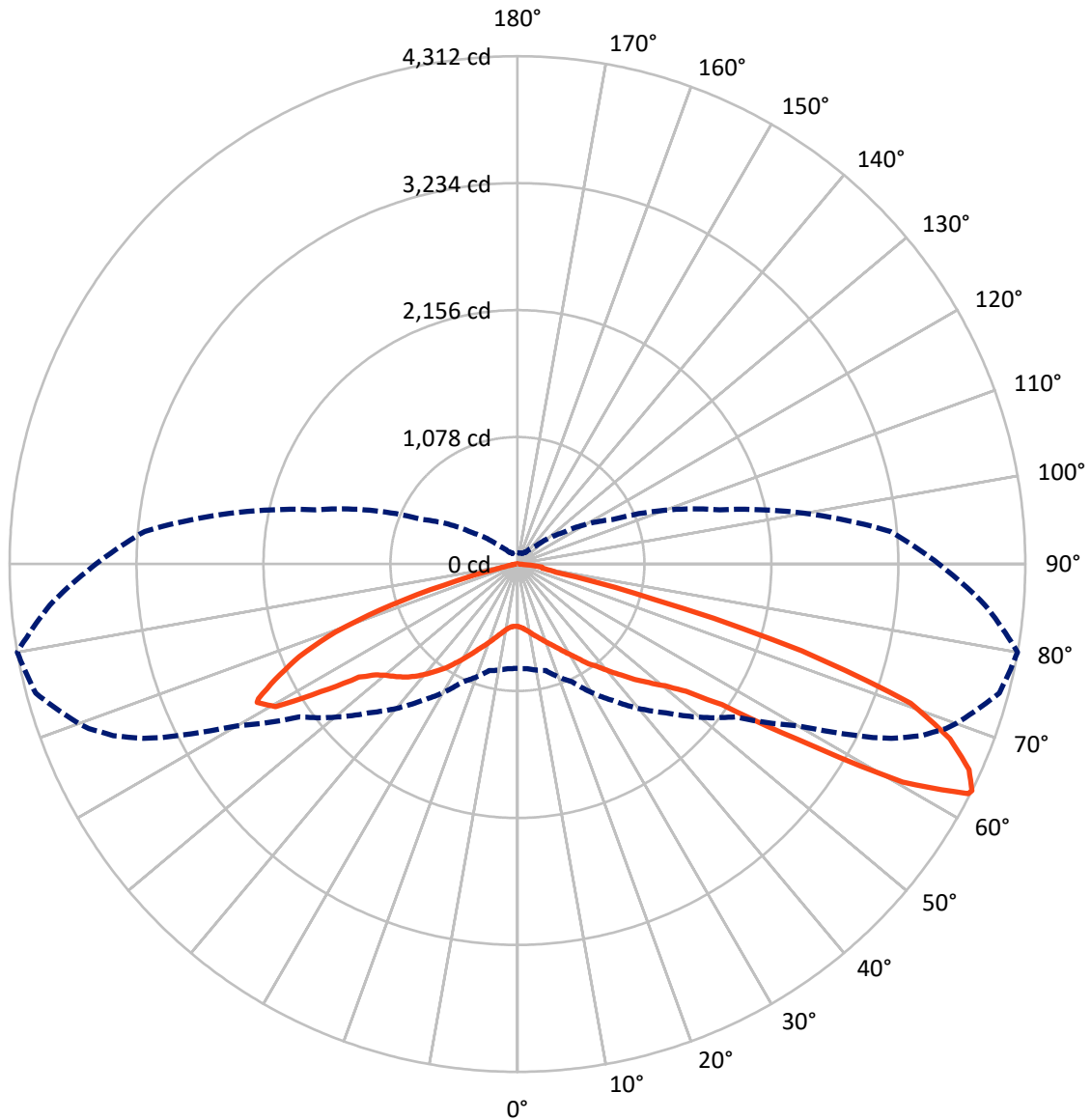
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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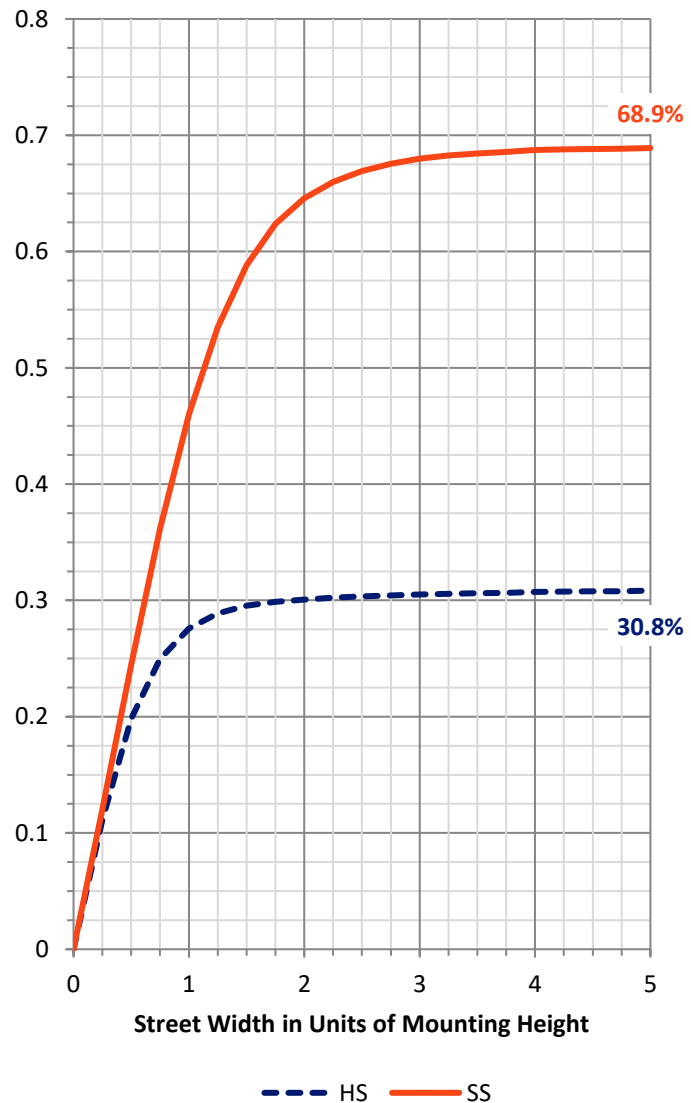
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1557.7	0.0	1557.7
	% Fixture	31.1	0.0	31.1
<b>Street Side</b>	Lumens	3444.0	0.0	3444.0
	% Fixture	68.9	0.0	68.9
<b>Total</b>	Lumens	5001.7	0.0	5001.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	1.1
10°-20°	182.1	3.6
20°-30°	342.2	6.8
30°-40°	543.1	10.9
40°-50°	819.7	16.4
50°-60°	1152.2	23.0
60°-70°	1344.4	26.9
70°-80°	519.7	10.4
80°-90°	45.2	0.9
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°	5001.7	100.0
0°-180°	5001.7	100.0



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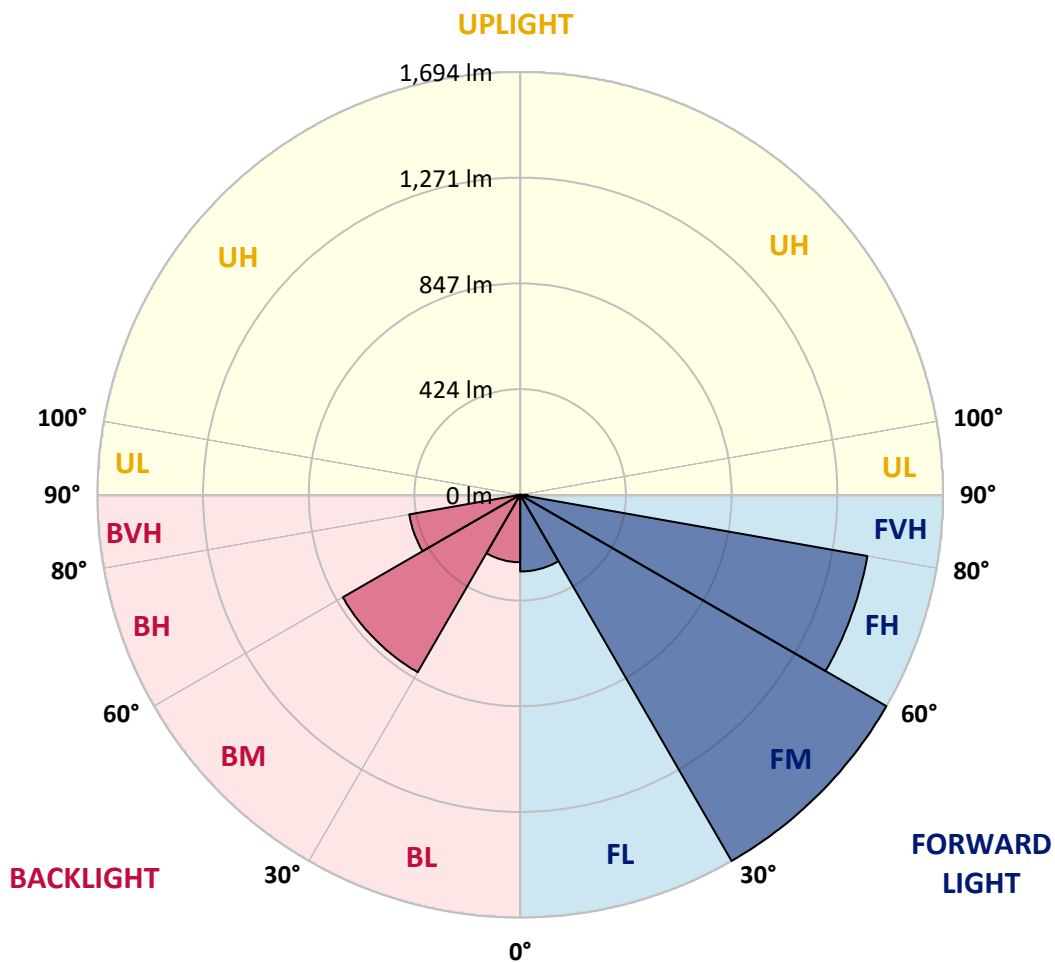
CATALOG NUMBER: ENT-E02-LED-E1-BL2-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.2	6.1			
FM	(30°-60°)	1694.2	33.9			
FH	(60°-80°)	1412.5	28.2			G1/1800
FVH	(80°-90°)	30.1	0.6			G1/100
BL	(0°-30°)	270.2	5.4	B1/500		
BM	(30°-60°)	820.8	16.4	B1/1000		
BH	(60°-80°)	451.6	9.0	B1/500		G1/500
BVH	(80°-90°)	15.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7
2.5°	556.2	554.4	555.3	554.4	554.4	552.6	547.1	547.1	546.2	547.1	545.3
5°	586.4	585.5	584.5	582.7	582.7	579.1	569.9	568.1	569.0	567.2	563.5
7.5°	620.2	619.3	617.4	613.8	611.9	606.5	593.7	591.9	590.9	589.1	586.4
10°	654.0	653.0	650.3	645.7	641.2	633.0	620.2	615.6	614.7	613.8	611.0
12.5°	688.7	685.9	686.8	678.6	671.3	661.3	646.7	642.1	641.2	640.3	639.3
15°	727.0	726.1	724.3	713.3	699.6	685.9	671.3	665.8	662.2	663.1	662.2
17.5°	763.6	762.6	756.3	740.7	722.5	706.9	688.7	685.0	685.0	684.1	684.1
20°	790.0	789.1	782.7	763.6	739.8	722.5	707.8	707.8	706.9	707.8	708.8
22.5°	801.9	801.9	793.7	772.7	747.1	734.3	729.8	732.5	733.4	734.3	736.2
25°	806.5	806.5	798.3	773.6	749.9	751.7	757.2	761.7	763.6	763.6	770.0
27.5°	814.7	815.6	804.7	778.2	759.0	776.3	790.0	796.4	799.2	801.0	809.2
30°	839.4	838.5	829.3	801.0	786.4	811.1	835.7	842.1	848.5	848.5	857.6
32.5°	875.9	875.0	869.5	847.6	841.2	872.2	894.2	907.9	907.0	908.8	915.2
35°	924.3	925.2	928.9	923.4	928.9	959.9	984.6	990.1	991.0	991.9	992.8
37.5°	979.1	980.0	1000.1	1017.5	1042.1	1087.8	1102.4	1105.2	1098.8	1098.8	1096.9
40°	1020.2	1024.8	1069.5	1115.2	1167.3	1229.4	1251.3	1245.8	1241.2	1237.6	1226.6
42.5°	1104.2	1107.0	1154.5	1220.2	1293.3	1379.2	1417.5	1399.3	1398.3	1381.9	1373.7
45°	1188.3	1195.6	1246.7	1320.7	1408.4	1527.1	1583.7	1568.2	1565.5	1558.2	1535.3
47.5°	1254.9	1265.0	1321.6	1409.3	1509.8	1646.8	1748.2	1759.1	1752.7	1744.5	1726.2
50°	1311.6	1319.8	1377.3	1473.2	1588.3	1738.1	1883.3	1922.6	1928.1	1924.4	1919.9
52.5°	1348.1	1356.3	1413.0	1515.2	1634.0	1805.7	1983.8	2061.4	2077.9	2077.0	2096.1
55°	1349.0	1358.2	1416.6	1528.9	1659.6	1852.3	2077.0	2199.3	2219.4	2244.1	2285.2
57.5°	1298.8	1307.9	1381.0	1510.7	1666.9	1888.8	2167.4	2382.9	2437.7	2486.1	2599.4
60°	1159.0	1162.7	1243.1	1416.6	1632.2	1880.6	2235.9	2540.9	2618.6	2723.6	2906.3
62.5°	944.4	951.7	1001.0	1170.0	1470.5	1808.4	2263.3	2717.2	2845.1	2998.5	3290.8
63°	885.0	891.4	937.1	1104.2	1415.7	1785.6	2262.4	2745.5	2886.2	3044.2	3359.3
65°	683.2	685.0	718.8	844.8	1161.8	1619.4	2213.0	2705.3	2883.4	3067.9	3398.6
67.5°	550.8	557.1	590.9	679.5	917.9	1360.0	1992.0	2343.7	2465.1	2646.9	3040.5
70°	431.1	442.1	474.0	574.5	782.7	1095.1	1676.0	1956.4	2031.3	2118.1	2452.3
72.5°	285.0	287.7	293.2	348.9	546.2	852.2	1394.7	1585.6	1614.8	1676.9	1840.4
75°	134.3	144.3	152.5	180.8	264.0	558.1	1011.1	1126.2	1160.9	1225.7	1285.1
77.5°	58.5	57.5	61.2	83.1	138.8	248.4	629.3	832.1	843.9	829.3	803.7
80°	18.3	19.2	20.1	21.9	43.8	118.7	272.2	559.0	617.4	656.7	645.7
82.5°	1.8	0.9	2.7	5.5	9.1	17.4	102.3	262.1	329.7	404.6	500.5
85°	0.0	0.0	0.9	0.9	1.8	3.7	6.4	27.4	45.7	53.0	105.0
87.5°	0.0	0.0	0.9	0.9	1.8	2.7	2.7	3.7	3.7	3.7	3.7
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):**

	65°	66°	67°	68°	69°	70°	75°	80°	85°	90°	95°
0°	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7
2.5°	544.4	544.4	542.5	543.4	542.5	542.5	540.7	538.9	538.0	533.4	530.7
5°	563.5	563.5	562.6	560.8	560.8	559.9	555.3	550.8	548.0	542.5	537.0
7.5°	585.5	584.5	582.7	580.9	580.9	580.0	573.6	569.0	563.5	555.3	548.9
10°	611.0	610.1	608.3	605.6	605.6	604.6	598.2	590.9	586.4	576.3	568.1
12.5°	638.4	635.7	634.8	633.0	631.1	631.1	625.6	618.3	614.7	603.7	595.5
15°	661.3	659.4	658.5	657.6	656.7	654.9	650.3	643.9	641.2	632.0	625.6
17.5°	683.2	683.2	684.1	682.3	681.4	679.5	676.8	675.0	672.2	664.0	660.4
20°	708.8	708.8	710.6	709.7	708.8	711.5	710.6	709.7	709.7	702.4	699.6
22.5°	738.9	738.0	740.7	739.8	740.7	743.5	747.1	745.3	748.9	744.4	742.6
25°	773.6	772.7	775.4	777.3	779.1	780.9	788.2	790.0	794.6	793.7	790.0
27.5°	812.9	813.8	814.7	819.3	822.0	823.8	833.9	839.4	848.5	844.8	848.5
30°	858.5	863.1	866.8	871.3	872.2	874.1	890.5	896.0	900.6	903.3	908.8
32.5°	921.6	924.3	925.2	930.7	932.5	935.3	952.6	959.9	966.3	967.2	977.3
35°	998.3	1000.1	1002.9	1005.6	1009.3	1007.4	1027.5	1038.5	1046.7	1047.6	1058.6
37.5°	1099.7	1093.3	1096.0	1092.4	1086.9	1086.9	1093.3	1104.2	1113.4	1120.7	1131.6
40°	1221.1	1216.6	1215.7	1207.4	1198.3	1190.1	1186.4	1192.8	1200.1	1206.5	1220.2
42.5°	1360.0	1355.4	1339.9	1334.4	1318.9	1309.7	1285.1	1287.8	1300.6	1304.3	1312.5
45°	1522.6	1506.1	1500.6	1466.8	1460.4	1447.7	1401.1	1397.4	1408.4	1409.3	1403.8
47.5°	1708.0	1696.1	1683.3	1659.6	1634.9	1613.9	1542.6	1505.2	1517.1	1516.2	1489.7
50°	1909.8	1908.0	1888.8	1873.3	1851.4	1821.2	1694.3	1625.8	1634.9	1626.7	1578.3
52.5°	2102.5	2097.1	2096.1	2084.3	2076.0	2066.0	1911.6	1793.8	1772.8	1755.5	1693.4
55°	2305.3	2319.0	2309.9	2329.0	2343.7	2341.8	2277.9	2105.3	1998.4	1984.7	1889.7
57.5°	2643.2	2676.1	2720.0	2721.8	2761.1	2817.7	2932.8	2808.6	2540.9	2488.0	2361.0
60°	3030.5	3115.4	3225.0	3278.9	3363.0	3450.6	3739.3	3758.4	3384.0	3179.4	2946.5
62.5°	3419.6	3531.0	3660.7	3744.7	3848.9	3917.4	4222.4	4295.5	3953.9	3576.7	3193.1
63°	3501.8	3616.0	3728.3	3810.5	3898.2	3961.2	4235.2	4311.9	3984.9	3577.6	3177.5
65°	3544.7	3651.6	3739.3	3812.3	3870.8	3913.7	4130.2	4213.3	3943.8	3445.2	3003.1
67.5°	3218.6	3390.4	3500.9	3589.5	3648.8	3708.2	3907.3	3959.4	3768.5	3187.6	2738.2
70°	2664.2	2862.4	3036.9	3174.8	3277.1	3367.5	3576.7	3541.1	3376.7	2770.2	2322.6
72.5°	1960.0	2132.7	2302.6	2458.7	2592.1	2707.2	2845.1	2522.7	2272.4	1842.2	1607.5
75°	1318.0	1355.4	1433.0	1510.7	1559.1	1592.0	1507.0	1201.1	975.5	875.0	765.4
77.5°	778.2	752.6	755.3	736.2	723.4	720.6	604.6	336.1	177.2	180.8	190.0
80°	621.1	592.8	562.6	528.8	506.9	483.2	393.7	215.6	76.7	62.1	64.8
82.5°	502.3	495.0	478.6	443.9	409.2	368.1	281.3	207.3	43.8	34.7	37.4
85°	97.7	109.6	98.6	107.8	80.4	75.8	44.8	48.4	17.4	15.5	19.2
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.3
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):**

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7
2.5°	526.1	522.4	519.7	516.0	514.2	511.5	510.6	507.8	508.7
5°	527.9	521.5	516.0	510.6	506.9	505.1	503.3	501.4	501.4
7.5°	537.0	528.8	522.4	516.0	513.3	509.6	508.7	506.0	506.0
10°	556.2	547.1	538.9	531.6	527.9	523.3	521.5	518.8	518.8
12.5°	584.5	576.3	567.2	556.2	548.9	543.4	538.9	537.0	537.0
15°	616.5	610.1	602.8	588.2	576.3	566.3	557.1	553.5	552.6
17.5°	654.9	649.4	642.1	625.6	606.5	585.5	569.9	562.6	561.7
20°	701.5	696.0	685.0	662.2	632.0	599.2	574.5	563.5	562.6
22.5°	748.9	748.9	730.7	693.2	648.5	604.6	571.8	557.1	554.4
25°	801.0	803.7	776.3	717.9	657.6	601.9	559.9	541.6	538.0
27.5°	864.0	861.3	815.6	737.1	658.5	590.9	540.7	518.8	515.1
30°	933.4	915.2	847.6	748.0	652.1	570.8	515.1	490.5	487.7
32.5°	1002.9	963.6	871.3	749.9	633.9	541.6	481.3	455.8	452.1
35°	1076.8	1006.5	885.9	739.8	603.7	502.3	439.3	414.7	411.0
37.5°	1138.9	1039.4	890.5	713.3	558.1	456.7	401.0	375.4	369.0
40°	1195.6	1063.1	882.3	670.4	506.9	411.9	360.8	338.9	337.0
42.5°	1247.6	1074.1	853.1	614.7	455.8	373.6	327.0	306.0	304.1
45°	1287.8	1066.8	803.7	553.5	413.7	340.7	296.8	277.7	274.0
47.5°	1313.4	1040.3	736.2	502.3	379.0	306.9	264.0	243.9	240.2
50°	1333.5	1001.0	667.7	463.1	345.2	272.2	230.2	211.9	209.2
52.5°	1360.0	950.8	608.3	427.4	306.0	232.9	195.5	178.1	175.4
55°	1418.4	907.9	566.3	388.2	264.0	191.8	160.7	149.8	146.1
57.5°	1616.6	922.5	539.8	340.7	215.6	154.4	133.3	127.0	126.0
60°	1824.9	984.6	527.0	285.9	167.1	125.1	113.3	111.4	110.5
62.5°	1813.9	928.9	474.0	224.7	128.8	103.2	97.7	98.6	98.6
63°	1777.4	895.1	456.7	211.0	122.4	100.5	95.0	95.0	95.0
65°	1556.3	759.0	370.8	159.8	102.3	89.5	84.9	85.9	86.8
67.5°	1285.1	548.0	243.9	111.4	92.2	81.3	75.8	74.0	74.0
70°	982.8	369.0	144.3	96.8	91.3	75.8	66.7	64.8	64.8
72.5°	644.8	225.6	97.7	96.8	90.4	72.2	62.1	58.5	58.5
75°	295.9	111.4	81.3	93.2	85.9	66.7	54.8	50.2	49.3
77.5°	115.1	70.3	73.1	78.5	66.7	54.8	49.3	45.7	44.8
80°	66.7	56.6	63.9	56.6	48.4	42.0	42.0	39.3	38.4
82.5°	48.4	48.4	49.3	41.1	36.5	34.7	34.7	32.0	31.1
85°	34.7	35.6	41.1	32.9	28.3	24.7	22.8	22.8	21.9
87.5°	17.4	28.3	22.8	13.7	12.8	11.9	11.9	11.9	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)