

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: McGRAW-EDISON

Report Number: P228219

Luminaire Tested: **ISS-AF-800-LED-E1-SL3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-800-LED-E1-SL3-7030  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

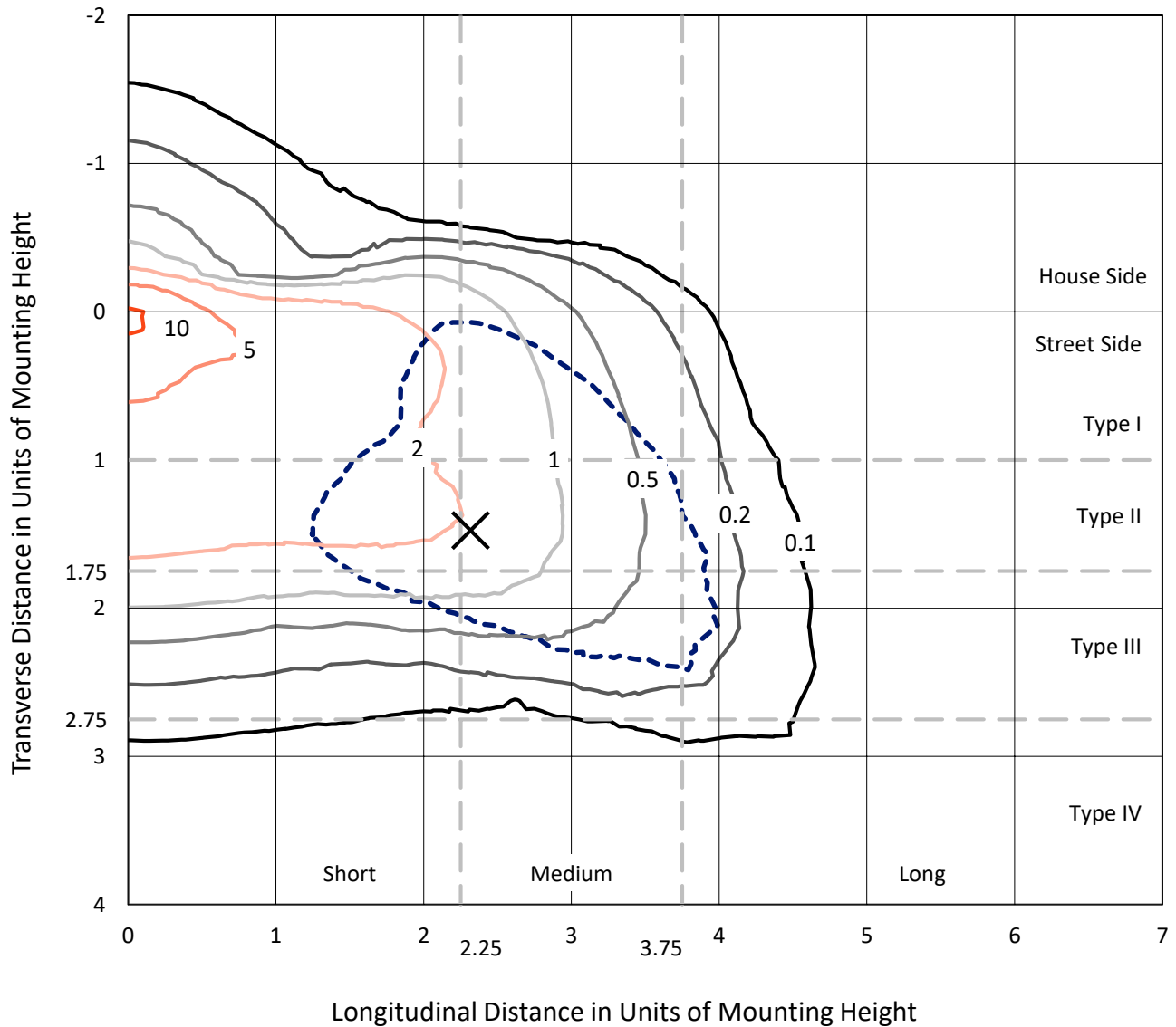
Lumens per Lamp: N/A  
Luminaire Lumens: 4029 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (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

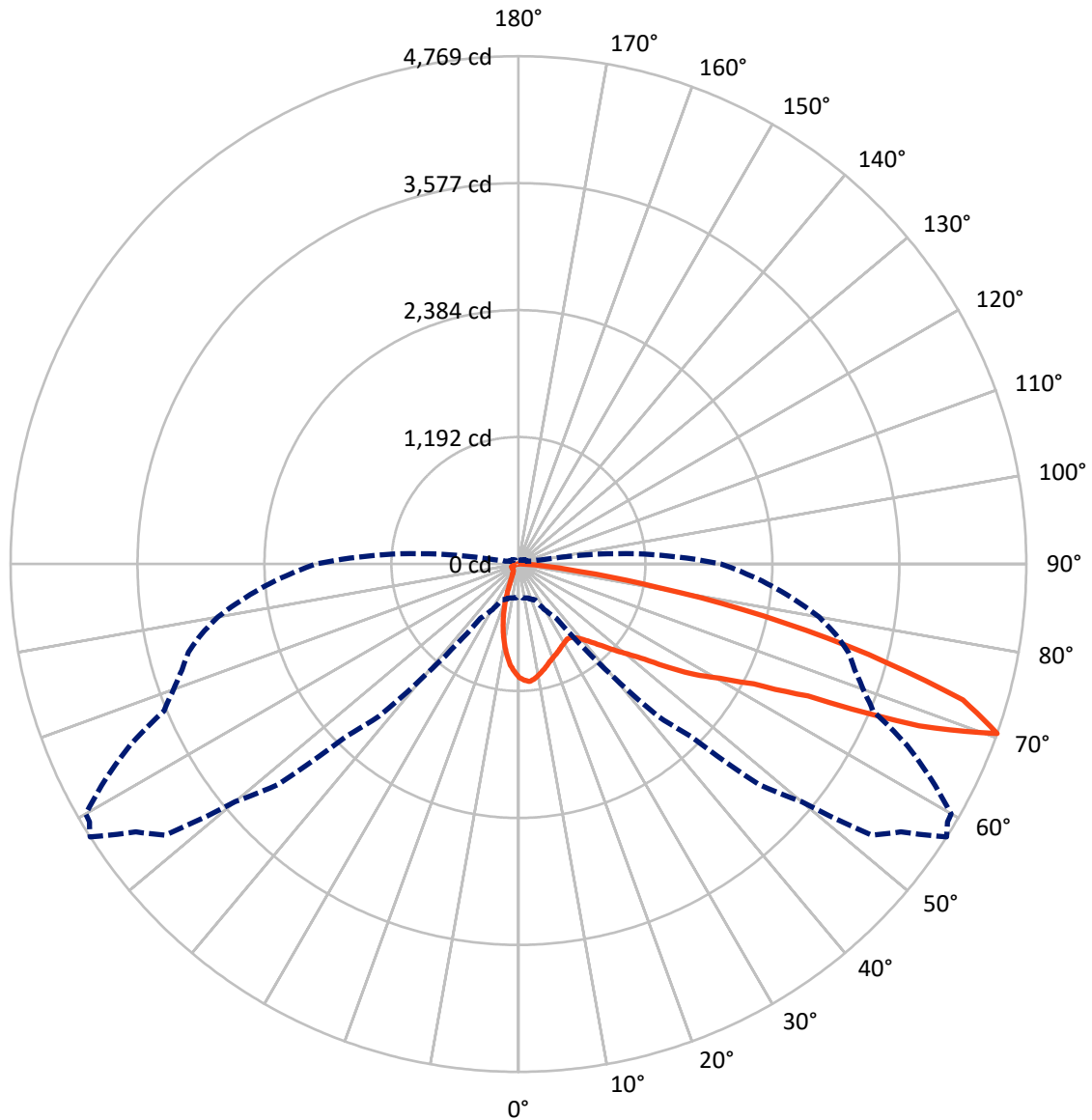
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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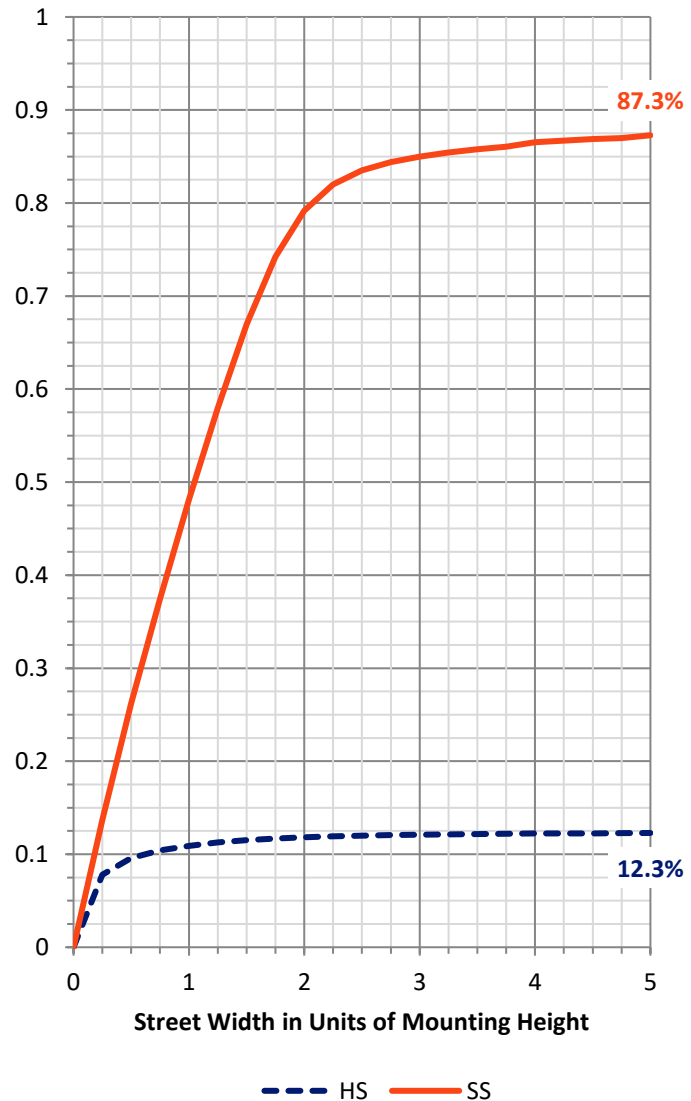
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	498.6	0.0	498.6
	% Fixture	12.4	0.0	12.4
<b>Street Side</b>	Lumens	3530.4	0.0	3530.4
	% Fixture	87.6	0.0	87.6
<b>Total</b>	Lumens	4029.0	0.0	4029.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	2.3
10°-20°	199.9	5.0
20°-30°	251.2	6.2
30°-40°	328.3	8.1
40°-50°	492.6	12.2
50°-60°	778.7	19.3
60°-70°	1122.5	27.9
70°-80°	694.7	17.2
80°-90°	68.9	1.7
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°	4029.0	100.0
0°-180°	4029.0	100.0



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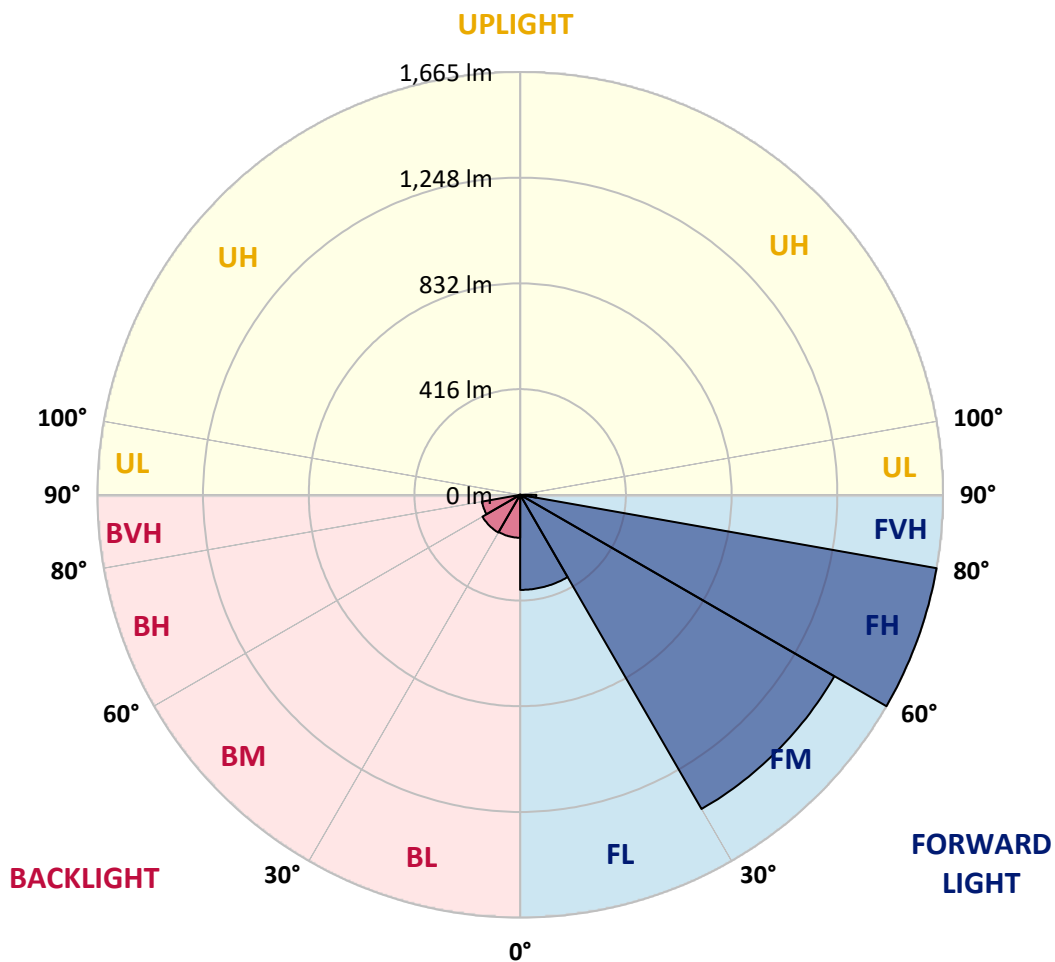
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.2	9.3			
FM	(30°-60°)	1428.2	35.4			
FH	(60°-80°)	1664.6	41.3			G1/1800
FVH	(80°-90°)	63.4	1.6			G1/100
BL	(0°-30°)	169.0	4.2	B1/500		
BM	(30°-60°)	171.4	4.3	B0/220		
BH	(60°-80°)	152.6	3.8	B1/500		G1/500
BVH	(80°-90°)	5.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1119.3	1117.9	1115.0	1109.3	1106.4	1109.3	1106.4	1102.1	1096.4	1100.7	1097.9
5°	1116.4	1119.3	1113.6	1109.3	1116.4	1119.3	1113.6	1113.6	1107.9	1113.6	1110.7
7.5°	1060.7	1062.1	1063.5	1062.1	1080.7	1080.7	1077.8	1080.7	1082.1	1085.0	1086.4
10°	990.6	992.1	994.9	999.2	1022.1	1025.0	1026.4	1029.2	1033.5	1036.4	1045.0
12.5°	920.6	923.5	929.2	943.5	967.8	970.6	974.9	979.2	986.4	990.6	1006.4
15°	862.0	863.4	869.1	884.9	920.6	927.7	930.6	936.3	950.6	950.6	967.8
17.5°	807.7	810.5	814.8	833.4	869.1	880.6	889.1	892.0	910.6	914.9	934.9
20°	766.2	767.6	769.1	786.2	819.1	836.3	843.4	854.8	869.1	880.6	897.7
22.5°	743.3	744.8	741.9	749.1	777.6	799.1	807.7	819.1	824.8	844.8	854.8
25°	744.8	746.2	739.1	734.8	749.1	771.9	779.1	790.5	787.7	816.2	816.2
27.5°	759.1	761.9	754.8	741.9	743.3	761.9	766.2	770.5	761.9	790.5	784.8
30°	787.7	790.5	781.9	771.9	756.2	767.6	767.6	767.6	751.9	776.2	766.2
32.5°	817.7	820.5	817.7	810.5	790.5	793.4	787.7	784.8	763.4	783.4	767.6
35°	862.0	863.4	864.8	864.8	836.3	842.0	826.3	817.7	797.7	813.4	791.9
37.5°	914.9	914.9	924.9	929.2	897.7	897.7	880.6	869.1	850.6	856.3	834.8
40°	962.1	966.3	989.2	1002.1	973.5	962.1	947.8	937.8	923.5	923.5	902.0
42.5°	1016.4	1025.0	1052.1	1076.4	1060.7	1043.5	1029.2	1019.2	1012.1	1010.7	987.8
45°	1083.6	1093.6	1123.6	1146.5	1150.7	1137.9	1126.4	1116.4	1110.7	1107.9	1087.9
47.5°	1159.3	1169.3	1196.5	1223.7	1243.7	1240.8	1227.9	1217.9	1222.2	1219.4	1206.5
50°	1243.7	1249.4	1266.5	1298.0	1343.7	1353.7	1350.9	1343.7	1352.3	1352.3	1340.9
52.5°	1310.9	1315.1	1328.0	1365.2	1440.9	1463.8	1482.4	1496.7	1511.0	1519.6	1512.4
55°	1372.3	1372.3	1373.8	1420.9	1533.9	1571.0	1612.5	1642.5	1661.1	1695.4	1709.7
57.5°	1472.4	1465.2	1463.8	1513.8	1645.4	1684.0	1744.0	1786.9	1812.6	1882.7	1881.2
60°	1443.8	1446.7	1498.1	1645.4	1874.1	1908.4	1962.7	2008.4	2057.1	2108.5	2112.8
62.5°	1245.1	1252.2	1329.4	1549.6	2019.9	2198.6	2365.8	2493.0	2564.5	2610.3	2547.4
65°	872.0	889.1	993.5	1262.2	1859.8	2135.7	2400.1	2694.6	2920.5	3270.7	3372.2
67.5°	434.6	447.4	464.6	661.9	1389.5	1776.9	2141.4	2543.1	2843.3	3357.9	3645.2
70°	311.6	317.3	330.2	371.7	621.8	930.6	1359.5	1934.1	2287.2	3063.4	3469.4
72.5°	241.6	247.3	264.5	323.1	411.7	454.6	540.4	883.4	1313.7	2115.7	2664.6
75°	187.3	195.8	220.1	291.6	396.0	420.3	424.6	456.0	520.3	939.2	1493.8
77.5°	131.5	132.9	157.2	251.6	384.5	431.7	424.6	424.6	433.1	478.9	639.0
80°	87.2	88.6	104.4	174.4	337.4	393.1	434.6	414.6	416.0	423.1	434.6
82.5°	45.7	48.6	61.5	105.8	197.3	265.9	361.7	377.4	371.7	378.8	376.0
85°	12.9	12.9	21.4	40.0	97.2	102.9	160.1	218.7	223.0	253.0	270.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	5.7	12.9	14.3
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):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1100.7	1095.0	1093.6	1090.7	1092.1	1087.9	1086.4	1080.7	1080.7	1077.8	1075.0
5°	1107.9	1102.1	1107.9	1097.9	1099.3	1095.0	1087.9	1087.9	1082.1	1077.8	1069.3
7.5°	1087.9	1087.9	1089.3	1083.6	1085.0	1083.6	1075.0	1073.6	1065.0	1065.0	1055.0
10°	1050.7	1050.7	1056.4	1052.1	1053.5	1052.1	1047.8	1046.4	1043.5	1043.5	1027.8
12.5°	1007.8	1016.4	1025.0	1020.7	1020.7	1023.5	1023.5	1025.0	1023.5	1022.1	1009.2
15°	972.1	984.9	993.5	992.1	993.5	1000.7	1003.5	1004.9	1009.2	1007.8	996.4
17.5°	939.2	953.5	960.6	966.3	970.6	976.3	984.9	989.2	994.9	993.5	982.1
20°	909.2	922.0	934.9	942.0	943.5	954.9	964.9	977.8	980.6	983.5	969.2
22.5°	877.7	889.1	914.9	910.6	920.6	942.0	947.8	966.3	966.3	976.3	956.3
25°	850.6	852.0	892.0	884.9	893.4	932.0	936.3	969.2	960.6	974.9	952.0
27.5°	823.4	822.0	870.6	862.0	872.0	924.9	927.7	973.5	964.9	982.1	952.0
30°	803.4	799.1	854.8	837.7	852.0	917.7	919.2	977.8	970.6	993.5	962.1
32.5°	799.1	791.9	840.5	827.7	842.0	910.6	919.2	993.5	984.9	1013.5	973.5
35°	817.7	806.2	847.7	836.3	847.7	913.5	926.3	1017.8	1007.8	1040.7	1000.7
37.5°	852.0	843.4	877.7	866.3	874.9	933.5	944.9	1049.3	1047.8	1087.9	1042.1
40°	912.0	903.4	930.6	914.9	922.0	976.3	982.1	1093.6	1097.9	1146.5	1100.7
42.5°	993.5	979.2	1000.7	982.1	992.1	1040.7	1035.0	1147.9	1160.8	1227.9	1175.0
45°	1097.9	1079.3	1092.1	1072.1	1079.3	1120.7	1105.0	1220.8	1233.7	1316.6	1269.4
47.5°	1212.2	1189.3	1205.1	1179.3	1183.6	1227.9	1199.4	1308.0	1328.0	1432.4	1386.6
50°	1349.4	1319.4	1325.1	1300.8	1303.7	1348.0	1316.6	1415.2	1439.5	1555.3	1515.3
52.5°	1525.3	1482.4	1482.4	1449.5	1450.9	1495.3	1456.7	1542.4	1569.6	1686.8	1659.7
55°	1756.9	1722.5	1715.4	1681.1	1669.7	1678.2	1623.9	1684.0	1714.0	1824.0	1802.6
57.5°	1941.3	1937.0	1958.4	1909.8	1898.4	1901.2	1832.6	1836.9	1871.2	1957.0	1964.1
60°	2165.7	2172.8	2175.7	2135.7	2131.4	2091.4	2021.3	2009.9	2052.8	2111.4	2134.2
62.5°	2523.1	2515.9	2480.2	2450.2	2423.0	2315.8	2277.2	2214.3	2274.3	2307.2	2354.4
65°	3290.7	3216.4	2987.7	3007.7	2936.2	2703.2	2670.3	2543.1	2637.4	2638.9	2727.5
67.5°	4051.2	4197.0	4056.9	4059.8	3898.2	3476.5	3375.1	3122.0	3174.9	3113.5	3159.2
70°	4181.3	4385.7	4768.8	4700.2	4691.6	4367.1	4025.5	3603.8	3445.1	3313.6	3207.8
72.5°	3598.1	3802.5	4364.3	4208.5	4267.1	4365.7	4009.8	3693.8	3339.3	3172.1	2943.3
75°	2531.6	2826.1	3396.5	3315.0	3357.9	3520.9	3214.9	3177.8	2767.5	2656.0	2304.4
77.5°	1356.6	1721.1	2360.1	2260.0	2278.6	2371.5	2052.8	1987.0	1591.0	1481.0	1082.1
80°	610.4	846.3	1325.1	1213.6	1180.8	1127.9	830.5	654.7	400.3	265.9	184.4
82.5°	404.5	420.3	587.5	508.9	476.0	393.1	254.5	150.1	118.6	100.1	95.8
85°	271.6	248.7	247.3	218.7	203.0	160.1	118.6	74.3	61.5	51.5	47.2
87.5°	15.7	10.0	14.3	15.7	11.4	10.0	7.1	0.0	1.4	0.0	1.4
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):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1067.8	1067.8	1066.4	1056.4	1050.7	1047.8	1037.8	1036.4	1032.1	1030.7	1030.7
5°	1066.4	1060.7	1053.5	1039.2	1025.0	1012.1	1007.8	997.8	990.6	982.1	982.1
7.5°	1046.4	1040.7	1025.0	1003.5	984.9	966.3	956.3	942.0	930.6	919.2	916.3
10°	1023.5	1014.9	993.5	964.9	940.6	907.7	894.9	876.3	863.4	846.3	829.1
12.5°	999.2	993.5	967.8	934.9	897.7	856.3	836.3	810.5	793.4	773.4	747.6
15°	989.2	977.8	944.9	903.4	857.7	807.7	779.1	751.9	726.2	703.3	669.0
17.5°	976.3	962.1	924.9	876.3	819.1	759.1	721.9	691.9	657.6	633.3	594.7
20°	962.1	940.6	900.6	842.0	777.6	706.2	659.0	629.0	583.2	558.9	513.2
22.5°	950.6	923.5	874.9	809.1	731.9	651.9	596.1	561.8	510.3	481.7	424.6
25°	947.8	914.9	856.3	781.9	693.3	599.0	531.8	497.5	433.1	400.3	333.1
27.5°	949.2	910.6	844.8	759.1	659.0	551.8	471.7	431.7	350.2	315.9	238.7
30°	950.6	912.0	833.4	739.1	627.6	503.2	408.8	361.7	264.5	234.4	165.8
32.5°	964.9	917.7	830.5	723.3	599.0	454.6	337.4	294.5	187.3	170.1	122.9
35°	982.1	936.3	836.3	720.5	577.5	406.0	264.5	220.1	134.4	130.1	100.1
37.5°	1017.8	964.9	859.1	727.6	564.7	355.9	197.3	168.7	105.8	108.6	87.2
40°	1072.1	1013.5	896.3	749.1	563.2	305.9	145.8	131.5	91.5	94.3	80.1
42.5°	1145.0	1080.7	953.5	794.8	570.4	258.7	117.2	112.9	84.3	87.2	77.2
45°	1240.8	1175.0	1033.5	853.4	590.4	220.1	102.9	102.9	81.5	84.3	75.8
47.5°	1362.3	1289.4	1132.2	932.0	621.8	198.7	97.2	98.6	80.1	84.3	75.8
50°	1499.5	1419.5	1258.0	1033.5	670.4	193.0	98.6	98.6	81.5	84.3	75.8
52.5°	1642.5	1568.2	1393.8	1149.3	737.6	205.8	101.5	100.1	81.5	84.3	74.3
55°	1788.3	1721.1	1543.9	1285.1	830.5	251.6	108.6	104.4	81.5	84.3	75.8
57.5°	1934.1	1886.9	1701.1	1430.9	946.3	334.5	137.2	121.5	90.1	91.5	77.2
60°	2098.5	2064.2	1878.4	1622.5	1110.7	463.2	201.6	153.0	107.2	101.5	82.9
62.5°	2311.5	2302.9	2155.7	1898.4	1375.2	649.0	285.9	185.8	115.8	105.8	88.6
65°	2687.5	2710.3	2570.2	2221.4	1551.0	653.3	278.8	163.0	108.6	100.1	87.2
67.5°	3064.9	2997.7	2637.4	2172.8	1399.5	434.6	177.3	127.2	95.8	92.9	81.5
70°	3050.6	2867.6	2391.6	1899.8	1105.0	235.9	128.7	105.8	85.8	85.8	77.2
72.5°	2736.1	2464.5	1955.6	1503.8	737.6	150.1	108.6	92.9	78.6	77.2	71.5
75°	2059.9	1739.7	1256.5	866.3	328.8	97.2	82.9	75.8	68.6	68.6	62.9
77.5°	969.2	546.1	303.1	201.6	110.1	65.8	57.2	57.2	55.8	57.2	51.5
80°	131.5	118.6	101.5	88.6	67.2	45.7	41.5	42.9	41.5	42.9	38.6
82.5°	80.1	71.5	58.6	55.8	41.5	31.4	30.0	31.4	28.6	30.0	22.9
85°	38.6	34.3	27.2	25.7	21.4	18.6	15.7	18.6	14.3	15.7	10.0
87.5°	0.0	2.9	1.4	2.9	2.9	2.9	0.0	2.9	0.0	2.9	0.0
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):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1023.5	1019.2	1017.8	1012.1	1010.7	1004.9	1003.5	997.8	987.8	983.5	976.3
5°	969.2	962.1	956.3	953.5	942.0	936.3	927.7	916.3	894.9	884.9	867.7
7.5°	893.4	892.0	874.9	869.1	854.8	844.8	832.0	813.4	781.9	763.4	736.2
10°	810.5	804.8	784.8	773.4	754.8	740.5	723.3	696.2	647.6	609.0	567.5
12.5°	733.3	716.2	693.3	676.2	653.3	633.3	613.3	571.8	494.6	431.7	374.5
15°	653.3	627.6	603.2	574.7	550.4	518.9	496.0	441.7	340.2	263.0	227.3
17.5°	571.8	536.1	508.9	470.3	443.1	400.3	376.0	310.2	223.0	188.7	177.3
20°	486.0	438.9	408.8	361.7	334.5	280.2	261.6	214.4	171.5	158.7	155.8
22.5°	394.5	337.4	304.5	253.0	234.4	201.6	187.3	164.4	144.4	138.7	141.5
25°	298.8	237.3	215.9	178.7	171.5	154.4	148.7	137.2	127.2	127.2	131.5
27.5°	213.0	165.8	160.1	137.2	135.8	127.2	122.9	117.2	114.4	117.2	122.9
30°	155.8	125.8	125.8	112.9	112.9	107.2	105.8	102.9	102.9	108.6	114.4
32.5°	122.9	102.9	105.8	95.8	97.2	92.9	94.3	92.9	94.3	98.6	102.9
35°	102.9	88.6	92.9	84.3	87.2	82.9	85.8	85.8	88.6	90.1	91.5
37.5°	91.5	81.5	84.3	78.6	81.5	77.2	81.5	81.5	82.9	82.9	82.9
40°	84.3	75.8	80.1	74.3	78.6	74.3	78.6	78.6	77.2	75.8	77.2
42.5°	80.1	74.3	78.6	72.9	77.2	72.9	75.8	74.3	71.5	71.5	71.5
45°	78.6	72.9	75.8	71.5	74.3	70.0	72.9	71.5	67.2	65.8	68.6
47.5°	78.6	71.5	75.8	70.0	72.9	68.6	71.5	67.2	62.9	62.9	67.2
50°	78.6	71.5	75.8	70.0	72.9	67.2	68.6	64.3	58.6	60.0	65.8
52.5°	80.1	74.3	77.2	71.5	72.9	64.3	67.2	61.5	57.2	58.6	62.9
55°	81.5	74.3	77.2	68.6	70.0	64.3	64.3	61.5	57.2	57.2	61.5
57.5°	81.5	72.9	74.3	67.2	68.6	61.5	62.9	60.0	55.8	54.3	57.2
60°	84.3	75.8	75.8	65.8	67.2	60.0	61.5	58.6	54.3	51.5	52.9
62.5°	87.2	77.2	78.6	68.6	68.6	61.5	62.9	57.2	51.5	48.6	50.0
65°	87.2	77.2	78.6	70.0	70.0	62.9	62.9	57.2	48.6	45.7	45.7
67.5°	82.9	75.8	77.2	70.0	70.0	62.9	62.9	55.8	47.2	42.9	41.5
70°	80.1	72.9	74.3	65.8	67.2	60.0	60.0	52.9	44.3	40.0	37.2
72.5°	72.9	67.2	67.2	61.5	60.0	52.9	52.9	48.6	41.5	35.7	32.9
75°	62.9	57.2	55.8	50.0	50.0	45.7	44.3	40.0	34.3	30.0	28.6
77.5°	51.5	44.3	44.3	37.2	37.2	32.9	34.3	30.0	25.7	24.3	22.9
80°	37.2	30.0	30.0	24.3	24.3	20.0	21.4	20.0	18.6	18.6	17.2
82.5°	22.9	15.7	17.2	12.9	15.7	11.4	12.9	11.4	11.4	10.0	10.0
85°	11.4	5.7	8.6	4.3	7.1	1.4	4.3	2.9	2.9	2.9	2.9
87.5°	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	175°	180°
0°	1066.4	1066.4
2.5°	969.2	973.5
5°	862.0	863.4
7.5°	731.9	729.0
10°	558.9	551.8
12.5°	360.2	350.2
15°	217.3	214.4
17.5°	174.4	174.4
20°	155.8	155.8
22.5°	144.4	144.4
25°	135.8	137.2
27.5°	128.7	128.7
30°	120.1	120.1
32.5°	105.8	105.8
35°	94.3	92.9
37.5°	84.3	85.8
40°	77.2	78.6
42.5°	74.3	74.3
45°	71.5	71.5
47.5°	71.5	71.5
50°	70.0	71.5
52.5°	68.6	68.6
55°	64.3	65.8
57.5°	60.0	61.5
60°	55.8	55.8
62.5°	50.0	50.0
65°	45.7	45.7
67.5°	40.0	40.0
70°	35.7	35.7
72.5°	31.4	31.4
75°	27.2	27.2
77.5°	22.9	21.4
80°	17.2	17.2
82.5°	10.0	10.0
85°	2.9	2.9
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)