

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: P228220

Luminaire Tested: **ISS-AF-600-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228220
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-600-LED-E1-SL3
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCUCLED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3719.5 lumens
Efficiency: N/A
Efficacy: 110.4 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

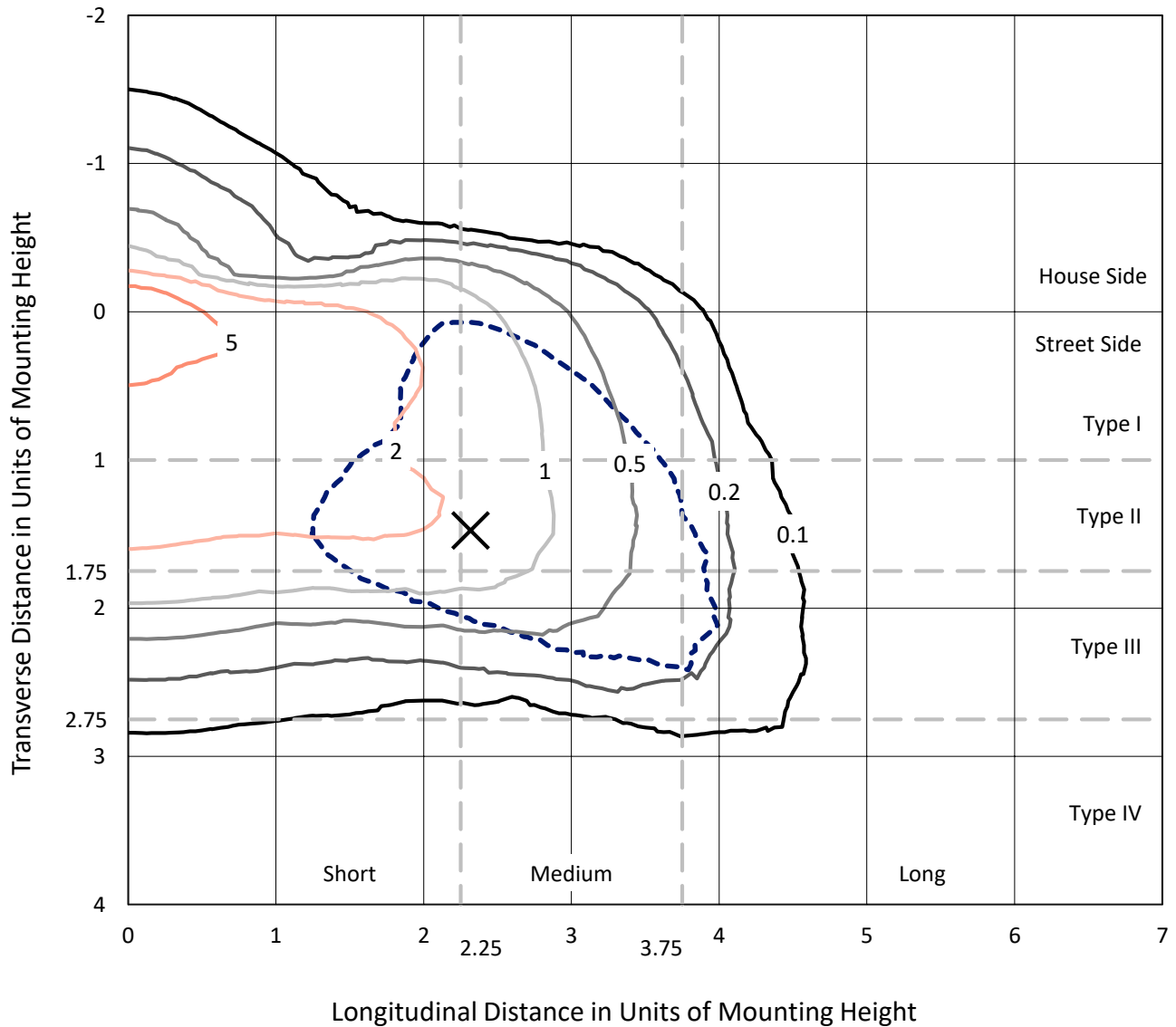
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

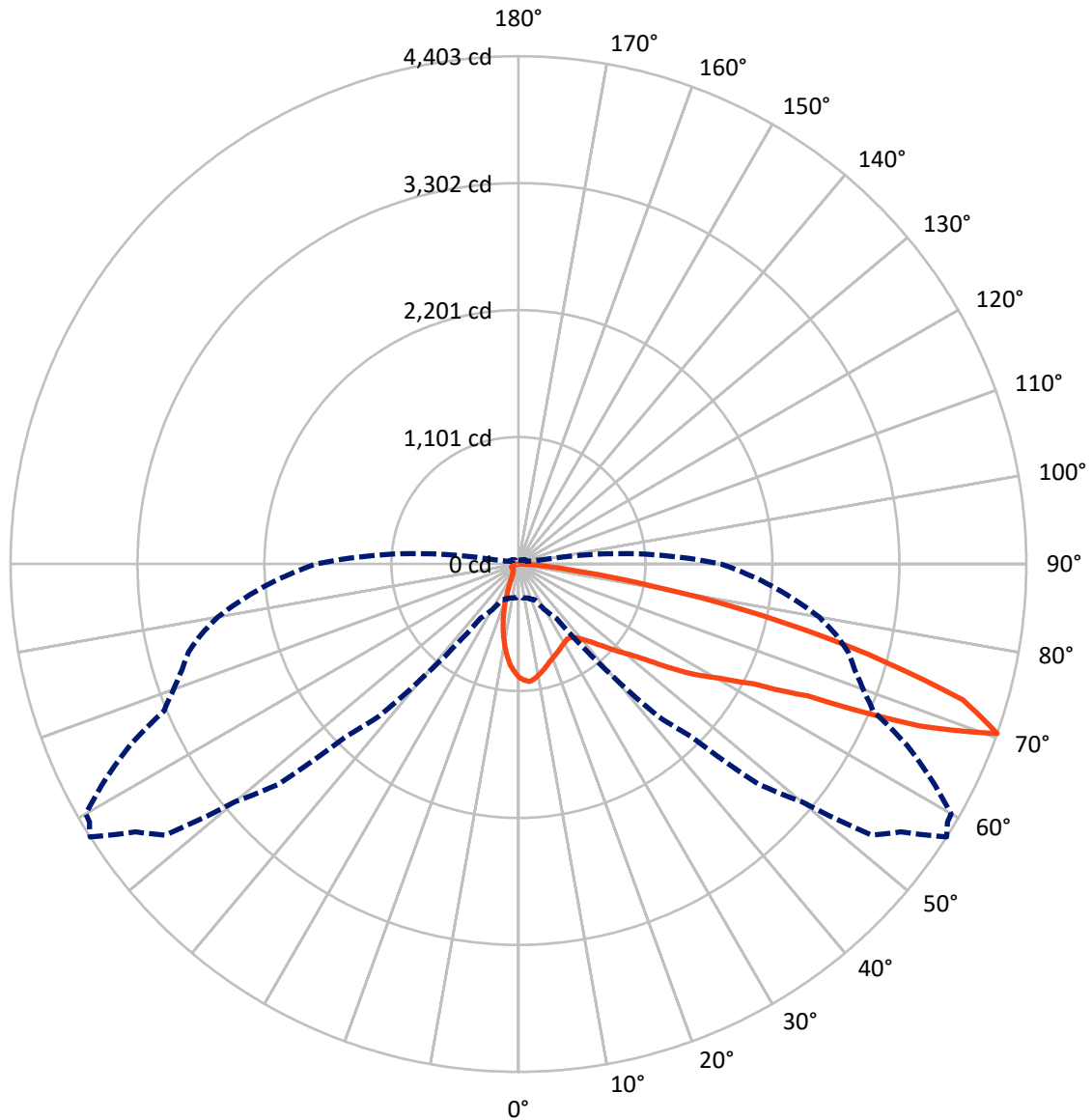
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 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
House Side	Lumens	460.3	0.0	460.3
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	3259.2	0.0	3259.2
	% Fixture	87.6	0.0	87.6
Total	Lumens	3719.5	0.0	3719.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	2.3
10°-20°	184.6	5.0
20°-30°	231.9	6.2
30°-40°	303.1	8.1
40°-50°	454.8	12.2
50°-60°	718.9	19.3
60°-70°	1036.2	27.9
70°-80°	641.3	17.2
80°-90°	63.6	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°	3719.5	100.0
0°-180°	3719.5	100.0



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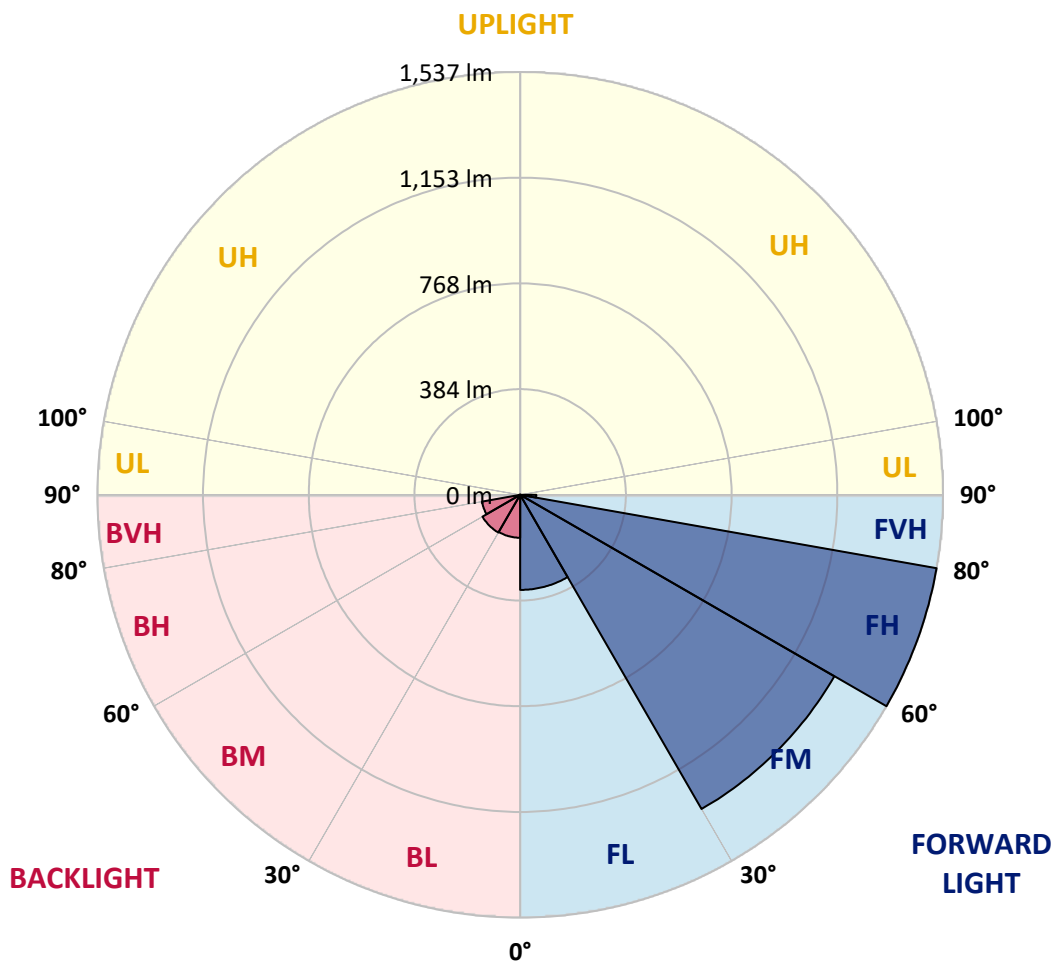
CATALOG NUMBER: ISS-AF-600-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.5	9.3			
FM	(30°-60°)	1318.5	35.4			
FH	(60°-80°)	1536.7	41.3			G1/1800
FVH	(80°-90°)	58.5	1.6			G1/100
BL	(0°-30°)	156.0	4.2	B1/500		
BM	(30°-60°)	158.3	4.3	B0/220		
BH	(60°-80°)	140.9	3.8	B1/500		G1/500
BVH	(80°-90°)	5.1	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°	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5
2.5°	1033.3	1032.0	1029.3	1024.1	1021.4	1024.1	1021.4	1017.4	1012.2	1016.1	1013.5
5°	1030.6	1033.3	1028.1	1024.1	1030.6	1033.3	1028.1	1028.1	1022.7	1028.1	1025.4
7.5°	979.2	980.5	981.8	980.5	997.7	997.7	995.0	997.7	999.0	1001.7	1002.9
10°	914.5	915.8	918.5	922.5	943.6	946.2	947.6	950.1	954.1	956.8	964.6
12.5°	849.9	852.5	857.7	870.9	893.4	896.1	900.0	904.0	910.5	914.5	929.0
15°	795.8	797.1	802.4	816.8	849.9	856.5	859.1	864.4	877.6	877.6	893.4
17.5°	745.6	748.3	752.2	769.4	802.4	812.9	820.8	823.5	840.7	844.5	863.1
20°	707.4	708.7	710.0	725.8	756.2	772.0	778.6	789.2	802.4	812.9	828.8
22.5°	686.2	687.5	684.9	691.5	717.9	737.6	745.6	756.2	761.5	779.9	789.2
25°	687.5	688.9	682.3	678.3	691.5	712.6	719.2	729.8	727.1	753.5	753.5
27.5°	700.7	703.4	696.8	684.9	686.2	703.4	707.4	711.3	703.4	729.8	724.5
30°	727.1	729.8	721.9	712.6	698.1	708.7	708.7	708.7	694.2	716.6	707.4
32.5°	754.8	757.5	754.8	748.3	729.8	732.4	727.1	724.5	704.7	723.2	708.7
35°	795.8	797.1	798.4	798.4	772.0	777.2	762.8	754.8	736.4	750.8	731.1
37.5°	844.5	844.5	853.9	857.7	828.8	828.8	812.9	802.4	785.2	790.4	770.7
40°	888.1	892.1	913.2	925.1	898.7	888.1	874.9	865.7	852.5	852.5	832.7
42.5°	938.3	946.2	971.3	993.7	979.2	963.3	950.1	940.9	934.4	933.0	911.9
45°	1000.3	1009.6	1037.3	1058.3	1062.3	1050.5	1039.9	1030.6	1025.4	1022.7	1004.2
47.5°	1070.2	1079.5	1104.6	1129.6	1148.2	1145.5	1133.6	1124.3	1128.3	1125.7	1113.8
50°	1148.2	1153.4	1169.2	1198.3	1240.5	1249.7	1247.1	1240.5	1248.4	1248.4	1237.9
52.5°	1210.2	1214.1	1226.0	1260.3	1330.2	1351.3	1368.5	1381.7	1394.9	1402.8	1396.2
55°	1266.9	1266.9	1268.3	1311.7	1416.0	1450.3	1488.6	1516.3	1533.5	1565.1	1578.3
57.5°	1359.3	1352.6	1351.3	1397.6	1519.0	1554.6	1610.0	1649.6	1673.3	1738.0	1736.7
60°	1332.9	1335.5	1383.0	1519.0	1730.1	1761.7	1812.0	1854.1	1899.0	1946.5	1950.5
62.5°	1149.4	1156.0	1227.3	1430.5	1864.7	2029.6	2184.1	2301.5	2367.5	2409.8	2351.7
65°	805.0	820.8	917.2	1165.2	1716.9	1971.6	2215.7	2487.6	2696.1	3019.4	3113.1
67.5°	401.2	413.1	428.9	611.0	1282.7	1640.3	1976.9	2347.7	2624.8	3100.0	3365.2
70°	287.7	293.0	304.8	343.1	574.1	859.1	1255.1	1785.6	2111.5	2828.0	3202.9
72.5°	223.0	228.3	244.2	298.3	380.0	419.6	498.8	815.6	1212.8	1953.1	2459.9
75°	172.9	180.8	203.3	269.2	365.5	388.0	391.9	420.9	480.4	867.1	1379.0
77.5°	121.4	122.8	145.2	232.3	355.0	398.5	391.9	391.9	399.9	442.1	589.9
80°	80.5	81.8	96.4	161.0	311.5	362.9	401.2	382.7	384.0	390.7	401.2
82.5°	42.2	44.9	56.8	97.7	182.1	245.5	333.9	348.4	343.1	349.7	347.1
85°	11.9	11.9	19.8	36.9	89.7	95.0	147.8	201.9	205.8	233.5	249.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.3	11.9	13.2
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°	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5
2.5°	1016.1	1010.9	1009.6	1006.9	1008.2	1004.2	1002.9	997.7	997.7	995.0	992.4
5°	1022.7	1017.4	1022.7	1013.5	1014.9	1010.9	1004.2	1004.2	999.0	995.0	987.1
7.5°	1004.2	1004.2	1005.6	1000.3	1001.7	1000.3	992.4	991.0	983.2	983.2	974.0
10°	970.0	970.0	975.3	971.3	972.6	971.3	967.3	966.0	963.3	963.3	948.9
12.5°	930.4	938.3	946.2	942.2	942.2	944.9	944.9	946.2	944.9	943.6	931.7
15°	897.3	909.3	917.2	915.8	917.2	923.7	926.4	927.7	931.7	930.4	919.8
17.5°	867.1	880.2	886.8	892.1	896.1	901.3	909.3	913.2	918.5	917.2	906.6
20°	839.3	851.2	863.1	869.7	870.9	881.6	890.8	902.7	905.3	908.0	894.8
22.5°	810.3	820.8	844.5	840.7	849.9	869.7	874.9	892.1	892.1	901.3	882.9
25°	785.2	786.5	823.5	816.8	824.8	860.4	864.4	894.8	886.8	900.0	878.9
27.5°	760.2	758.8	803.6	795.8	805.0	853.9	856.5	898.7	890.8	906.6	878.9
30°	741.6	737.6	789.2	773.4	786.5	847.2	848.5	902.7	896.1	917.2	888.1
32.5°	737.6	731.1	776.0	764.0	777.2	840.7	848.5	917.2	909.3	935.7	898.7
35°	754.8	744.3	782.6	772.0	782.6	843.3	855.2	939.6	930.4	960.8	923.7
37.5°	786.5	778.6	810.3	799.7	807.6	861.7	872.3	968.6	967.3	1004.2	962.1
40°	842.0	834.0	859.1	844.5	851.2	901.3	906.6	1009.6	1013.5	1058.3	1016.1
42.5°	917.2	904.0	923.7	906.6	915.8	960.8	955.4	1059.7	1071.5	1133.6	1084.7
45°	1013.5	996.4	1008.2	989.7	996.4	1034.6	1020.1	1127.0	1138.9	1215.4	1171.9
47.5°	1119.1	1097.9	1112.5	1088.7	1092.7	1133.6	1107.2	1207.5	1226.0	1322.3	1280.1
50°	1245.7	1218.0	1223.3	1200.9	1203.5	1244.4	1215.4	1306.5	1328.9	1435.8	1398.9
52.5°	1408.1	1368.5	1368.5	1338.1	1339.5	1380.4	1344.8	1423.9	1449.0	1557.2	1532.2
55°	1621.9	1590.2	1583.6	1551.9	1541.4	1549.3	1499.1	1554.6	1582.3	1683.9	1664.1
57.5°	1792.1	1788.1	1808.0	1763.1	1752.5	1755.2	1691.9	1695.7	1727.5	1806.6	1813.2
60°	1999.3	2005.9	2008.6	1971.6	1967.6	1930.7	1866.0	1855.4	1895.0	1949.1	1970.3
62.5°	2329.3	2322.6	2289.7	2261.9	2236.9	2137.9	2102.3	2044.2	2099.6	2130.0	2173.5
65°	3037.9	2969.2	2758.1	2776.6	2710.6	2495.5	2465.1	2347.7	2434.8	2436.2	2517.9
67.5°	3739.9	3874.5	3745.2	3747.9	3598.7	3209.4	3115.7	2882.2	2931.0	2874.3	2916.4
70°	3860.0	4048.7	4402.5	4339.1	4331.2	4031.6	3716.2	3326.9	3180.5	3059.0	2961.3
72.5°	3321.6	3510.4	4029.0	3885.1	3939.2	4030.3	3701.6	3410.0	3082.8	2928.4	2717.2
75°	2337.1	2609.0	3135.5	3060.4	3100.0	3250.3	2968.0	2933.6	2554.9	2451.9	2127.3
77.5°	1252.4	1588.8	2178.8	2086.4	2103.6	2189.3	1895.0	1834.4	1468.8	1367.2	999.0
80°	563.5	781.2	1223.3	1120.4	1090.1	1041.3	766.7	604.4	369.5	245.5	170.2
82.5°	373.5	388.0	542.4	469.8	439.5	362.9	234.9	138.6	109.6	92.4	88.4
85°	250.7	229.7	228.3	201.9	187.4	147.8	109.6	68.6	56.8	47.5	43.6
87.5°	14.5	9.2	13.2	14.5	10.5	9.2	6.6	0.0	1.3	0.0	1.3
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5
2.5°	985.8	985.8	984.5	975.3	970.0	967.3	958.1	956.8	952.8	951.4	951.4
5°	984.5	979.2	972.6	959.4	946.2	934.4	930.4	921.2	914.5	906.6	906.6
7.5°	966.0	960.8	946.2	926.4	909.3	892.1	882.9	869.7	859.1	848.5	845.9
10°	944.9	936.9	917.2	890.8	868.4	838.0	826.1	808.9	797.1	781.2	765.4
12.5°	922.5	917.2	893.4	863.1	828.8	790.4	772.0	748.3	732.4	713.9	690.2
15°	913.2	902.7	872.3	834.0	791.8	745.6	719.2	694.2	670.4	649.3	617.6
17.5°	901.3	888.1	853.9	808.9	756.2	700.7	666.5	638.7	607.0	584.6	549.0
20°	888.1	868.4	831.4	777.2	717.9	651.9	608.3	580.6	538.4	516.0	473.7
22.5°	877.6	852.5	807.6	747.0	675.7	601.8	550.3	518.6	471.2	444.8	391.9
25°	874.9	844.5	790.4	721.9	640.1	552.9	490.9	459.2	399.9	369.5	307.5
27.5°	876.3	840.7	779.9	700.7	608.3	509.4	435.5	398.5	323.4	291.6	220.3
30°	877.6	842.0	769.4	682.3	579.3	464.5	377.5	333.9	244.2	216.5	153.0
32.5°	890.8	847.2	766.7	667.8	552.9	419.6	311.5	271.9	172.9	157.0	113.4
35°	906.6	864.4	772.0	665.1	533.2	374.8	244.2	203.3	124.1	120.1	92.4
37.5°	939.6	890.8	793.1	671.7	521.3	328.6	182.1	155.7	97.7	100.2	80.5
40°	989.7	935.7	827.5	691.5	520.0	282.4	134.6	121.4	84.5	87.1	73.9
42.5°	1057.0	997.7	880.2	733.8	526.5	238.9	108.2	104.2	77.8	80.5	71.3
45°	1145.5	1084.7	954.1	787.9	545.0	203.3	95.0	95.0	75.2	77.8	70.0
47.5°	1257.6	1190.3	1045.1	860.4	574.1	183.4	89.7	91.0	73.9	77.8	70.0
50°	1384.4	1310.4	1161.4	954.1	618.9	178.2	91.0	91.0	75.2	77.8	70.0
52.5°	1516.3	1447.7	1286.7	1061.0	681.0	190.1	93.7	92.4	75.2	77.8	68.6
55°	1650.9	1588.8	1425.3	1186.4	766.7	232.3	100.2	96.4	75.2	77.8	70.0
57.5°	1785.6	1742.0	1570.4	1321.0	873.6	308.8	126.6	112.2	83.2	84.5	71.3
60°	1937.3	1905.7	1734.0	1497.8	1025.4	427.6	186.1	141.2	99.0	93.7	76.5
62.5°	2133.9	2126.0	1990.0	1752.5	1269.5	599.1	263.9	171.5	106.9	97.7	81.8
65°	2481.0	2502.1	2372.7	2050.8	1431.8	603.1	257.4	150.5	100.2	92.4	80.5
67.5°	2829.4	2767.4	2434.8	2005.9	1292.0	401.2	163.7	117.4	88.4	85.8	75.2
70°	2816.2	2647.3	2207.8	1753.8	1020.1	217.8	118.8	97.7	79.2	79.2	71.3
72.5°	2525.9	2275.1	1805.3	1388.2	681.0	138.6	100.2	85.8	72.6	71.3	66.0
75°	1901.7	1606.0	1160.0	799.7	303.5	89.7	76.5	70.0	63.3	63.3	58.1
77.5°	894.8	504.1	279.8	186.1	101.6	60.7	52.8	52.8	51.5	52.8	47.5
80°	121.4	109.6	93.7	81.8	62.0	42.2	38.3	39.6	38.3	39.6	35.6
82.5°	73.9	66.0	54.1	51.5	38.3	29.1	27.7	29.1	26.4	27.7	21.1
85°	35.6	31.7	25.1	23.7	19.8	17.2	14.5	17.2	13.2	14.5	9.2
87.5°	0.0	2.7	1.3	2.7	2.7	2.7	0.0	2.7	0.0	2.7	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°	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5
2.5°	944.9	940.9	939.6	934.4	933.0	927.7	926.4	921.2	911.9	908.0	901.3
5°	894.8	888.1	882.9	880.2	869.7	864.4	856.5	845.9	826.1	816.8	801.1
7.5°	824.8	823.5	807.6	802.4	789.2	779.9	768.0	750.8	721.9	704.7	679.6
10°	748.3	743.0	724.5	713.9	696.8	683.6	667.8	642.7	597.8	562.2	524.0
12.5°	677.0	661.1	640.1	624.2	603.1	584.6	566.1	527.8	456.6	398.5	345.8
15°	603.1	579.3	556.9	530.5	508.1	479.0	458.0	407.7	314.0	242.8	209.8
17.5°	527.8	494.9	469.8	434.1	409.1	369.5	347.1	286.3	205.8	174.2	163.7
20°	448.7	405.1	377.5	333.9	308.8	258.7	241.5	197.9	158.4	146.5	143.8
22.5°	364.3	311.5	281.1	233.5	216.5	186.1	172.9	151.8	133.3	128.0	130.6
25°	275.8	219.1	199.3	165.0	158.4	142.5	137.3	126.6	117.4	117.4	121.4
27.5°	196.6	153.0	147.8	126.6	125.4	117.4	113.4	108.2	105.6	108.2	113.4
30°	143.8	116.1	116.1	104.2	104.2	99.0	97.7	95.0	95.0	100.2	105.6
32.5°	113.4	95.0	97.7	88.4	89.7	85.8	87.1	85.8	87.1	91.0	95.0
35°	95.0	81.8	85.8	77.8	80.5	76.5	79.2	79.2	81.8	83.2	84.5
37.5°	84.5	75.2	77.8	72.6	75.2	71.3	75.2	75.2	76.5	76.5	76.5
40°	77.8	70.0	73.9	68.6	72.6	68.6	72.6	72.6	71.3	70.0	71.3
42.5°	73.9	68.6	72.6	67.3	71.3	67.3	70.0	68.6	66.0	66.0	66.0
45°	72.6	67.3	70.0	66.0	68.6	64.7	67.3	66.0	62.0	60.7	63.3
47.5°	72.6	66.0	70.0	64.7	67.3	63.3	66.0	62.0	58.1	58.1	62.0
50°	72.6	66.0	70.0	64.7	67.3	62.0	63.3	59.4	54.1	55.4	60.7
52.5°	73.9	68.6	71.3	66.0	67.3	59.4	62.0	56.8	52.8	54.1	58.1
55°	75.2	68.6	71.3	63.3	64.7	59.4	59.4	56.8	52.8	52.8	56.8
57.5°	75.2	67.3	68.6	62.0	63.3	56.8	58.1	55.4	51.5	50.1	52.8
60°	77.8	70.0	70.0	60.7	62.0	55.4	56.8	54.1	50.1	47.5	48.8
62.5°	80.5	71.3	72.6	63.3	63.3	56.8	58.1	52.8	47.5	44.9	46.2
65°	80.5	71.3	72.6	64.7	64.7	58.1	58.1	52.8	44.9	42.2	42.2
67.5°	76.5	70.0	71.3	64.7	64.7	58.1	58.1	51.5	43.6	39.6	38.3
70°	73.9	67.3	68.6	60.7	62.0	55.4	55.4	48.8	40.9	36.9	34.3
72.5°	67.3	62.0	62.0	56.8	55.4	48.8	48.8	44.9	38.3	33.0	30.4
75°	58.1	52.8	51.5	46.2	46.2	42.2	40.9	36.9	31.7	27.7	26.4
77.5°	47.5	40.9	40.9	34.3	34.3	30.4	31.7	27.7	23.7	22.4	21.1
80°	34.3	27.7	27.7	22.4	22.4	18.5	19.8	18.5	17.2	17.2	15.9
82.5°	21.1	14.5	15.9	11.9	14.5	10.5	11.9	10.5	10.5	9.2	9.2
85°	10.5	5.3	7.9	4.0	6.6	1.3	4.0	2.7	2.7	2.7	2.7
87.5°	1.3	0.0	1.3	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°	984.5	984.5
2.5°	894.8	898.7
5°	795.8	797.1
7.5°	675.7	673.0
10°	516.0	509.4
12.5°	332.6	323.4
15°	200.6	197.9
17.5°	161.0	161.0
20°	143.8	143.8
22.5°	133.3	133.3
25°	125.4	126.6
27.5°	118.8	118.8
30°	110.9	110.9
32.5°	97.7	97.7
35°	87.1	85.8
37.5°	77.8	79.2
40°	71.3	72.6
42.5°	68.6	68.6
45°	66.0	66.0
47.5°	66.0	66.0
50°	64.7	66.0
52.5°	63.3	63.3
55°	59.4	60.7
57.5°	55.4	56.8
60°	51.5	51.5
62.5°	46.2	46.2
65°	42.2	42.2
67.5°	36.9	36.9
70°	33.0	33.0
72.5°	29.1	29.1
75°	25.1	25.1
77.5°	21.1	19.8
80°	15.9	15.9
82.5°	9.2	9.2
85°	2.7	2.7
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)