

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P148932

Luminaire Tested: **TLM-E01-LED-E1-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148932
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E01-LED-E1-RW-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

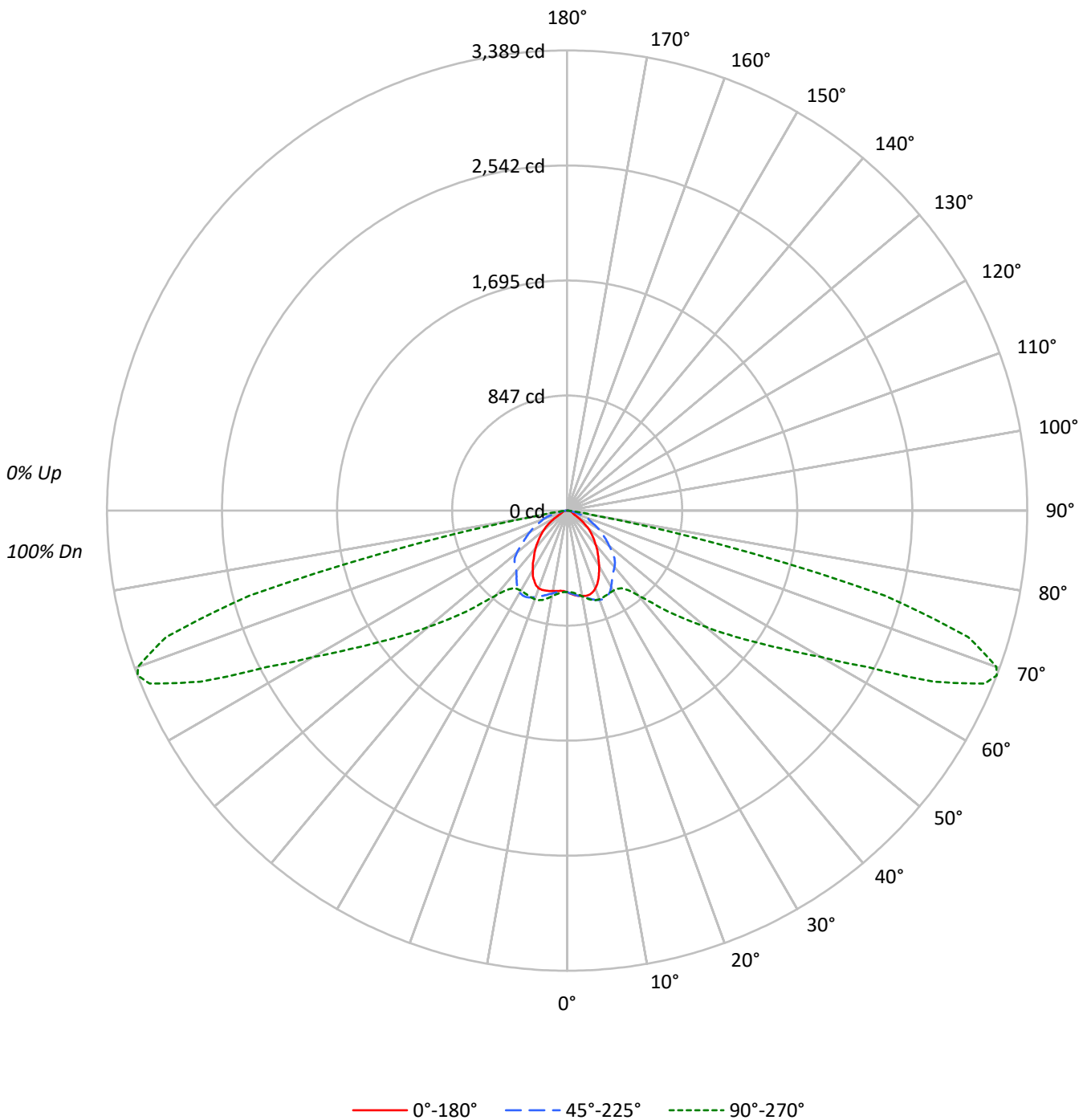
Lumens per Lamp: N/A
Luminaire Lumens: 3205.5 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79
2	94	84	76	69	91	82	75	68	79	72	66	75	70	65	72	67	63	61
3	84	72	62	54	81	70	61	54	67	59	52	64	57	51	61	55	51	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39
5	69	54	44	36	67	53	43	36	51	42	35	49	41	35	47	40	35	32
6	63	48	38	31	61	47	37	30	45	36	30	43	36	30	42	35	29	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	38	31	25	23
8	54	39	29	23	52	38	29	23	37	29	23	35	28	23	34	27	22	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38028	38028	38028
5°	39718	38720	37716
10°	41077	41212	38724
15°	42018	44594	39953
20°	41001	46809	41089
25°	38257	47961	39975
30°	34436	49790	36988
35°	30586	53960	33075
40°	26970	67140	29797
45°	23586	94084	26030
50°	19849	131158	22341
55°	14307	186140	17552
60°	8535	272568	10485
65°	7686	446587	7686
70°	7849	622823	7979
75°	8367	592760	8783
80°	8496	76317	9225
85°	5449	19106	7701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	1.8
10°-20°	185.8	5.8
20°-30°	301.1	9.4
30°-40°	375.2	11.7
40°-50°	468.9	14.6
50°-60°	579.0	18.1
60°-70°	719.4	22.4
70°-80°	477.6	14.9
80°-90°	39.4	1.2
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°-30°	545.9	17.0
0°-40°	921.1	28.7
0°-60°	1969.0	61.4
0°-90°	3205.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3205.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	601	601	601	601	601	
5°	625	621	609	600	593	60
15°	641	674	680	647	610	179
25°	548	697	686	704	572	250
35°	396	583	698	648	428	248
45°	263	491	1051	548	291	203
55°	130	332	1686	389	159	116
65°	51	193	2981	245	51	52
75°	34	76	2423	99	36	36
85°	8	14	26	19	11	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	614.3	616.3	614.3	614.3	612.6	610.9	609.8	607.5	606.1	605.4	605.4
5°	624.9	624.6	624.9	624.9	623.2	621.1	619.8	617.7	615.7	615.3	615.0
7.5°	632.8	632.4	633.4	635.5	634.5	632.8	632.8	630.7	629.3	629.3	628.7
10°	638.9	639.3	641.3	644.4	645.1	644.7	647.1	646.4	645.8	646.4	645.8
12.5°	643.0	643.4	646.1	651.9	655.7	658.1	664.2	664.6	664.9	664.9	664.9
15°	641.0	641.0	646.4	657.4	666.6	673.8	681.7	683.0	681.7	682.7	682.0
17.5°	629.0	629.7	638.6	655.3	674.2	689.9	698.4	696.0	693.6	693.6	692.6
20°	608.5	609.8	621.8	645.4	675.2	700.1	713.5	705.6	699.1	698.1	697.1
22.5°	583.2	582.1	596.5	626.3	667.3	704.6	722.7	713.1	701.5	699.1	697.4
25°	547.6	548.3	563.3	596.5	647.5	697.4	725.5	720.7	707.0	703.9	700.1
27.5°	508.6	510.3	526.4	560.3	616.7	679.6	722.4	728.2	717.6	714.2	710.7
30°	471.0	472.0	490.1	526.4	578.7	648.2	714.2	736.4	730.9	728.2	725.1
32.5°	431.0	434.4	450.1	491.2	548.6	613.6	701.5	745.0	747.0	745.3	743.6
35°	395.7	398.5	416.3	459.4	519.6	582.8	686.1	754.2	768.2	767.9	767.5
37.5°	363.9	364.6	383.4	427.2	490.8	561.3	670.0	769.2	794.2	797.6	801.7
40°	326.3	329.7	349.2	396.4	462.4	542.8	656.4	789.4	830.5	838.0	843.8
42.5°	296.2	296.2	313.6	360.5	428.9	521.6	651.6	814.7	873.6	883.8	894.1
45°	263.4	264.4	281.2	323.9	390.6	490.8	650.9	842.8	921.8	936.5	949.1
47.5°	232.2	232.9	250.7	292.1	350.9	448.4	642.3	873.9	972.4	993.6	1007.6
50°	201.5	200.4	217.5	259.6	315.7	404.6	615.0	914.3	1035.3	1056.5	1072.6
52.5°	163.5	166.2	184.7	224.7	281.2	367.3	559.2	953.9	1100.3	1124.3	1146.2
55°	129.6	129.3	150.2	186.4	243.9	332.1	493.2	982.0	1163.6	1191.3	1215.6
57.5°	93.0	94.1	111.8	147.8	205.2	300.6	443.3	977.2	1212.5	1245.3	1276.1
60°	67.4	69.4	82.8	109.1	163.8	264.4	408.4	921.8	1246.0	1290.8	1328.1
62.5°	56.8	58.5	70.1	84.5	126.6	226.4	374.5	832.9	1289.5	1348.6	1402.7
65°	51.3	52.7	64.3	72.5	97.1	192.6	353.3	769.9	1346.6	1436.5	1510.4
67.5°	46.2	48.2	58.5	64.6	82.4	172.0	347.2	760.3	1357.5	1476.6	1581.6
69°	43.8	45.8	55.1	60.5	77.6	165.5	335.5	725.8	1286.1	1414.0	1531.6
70°	42.4	44.1	52.3	58.1	76.3	159.4	319.1	675.2	1210.1	1339.1	1465.6
72.5°	39.0	40.0	46.9	52.7	70.1	122.4	241.8	487.7	903.3	1030.9	1155.1
75°	34.2	35.2	41.4	47.2	54.4	75.9	146.7	289.4	554.4	640.3	764.8
77.5°	29.4	30.4	35.6	44.5	43.1	49.6	89.6	173.1	290.7	333.5	413.2
80°	23.3	24.6	29.8	42.8	35.9	39.3	65.7	127.9	176.8	194.6	215.5
82.5°	16.4	17.1	22.6	34.2	27.0	29.8	49.3	106.4	141.9	154.9	161.1
85°	7.5	7.9	13.3	20.2	16.1	14.4	26.3	68.1	94.1	97.8	103.3
87.5°	0.0	0.0	1.4	1.4	2.7	1.7	3.1	8.6	14.4	14.4	17.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	605.7	605.4	605.7	605.7	606.1	604.7	604.4	604.0	603.7	604.0	603.4
5°	615.0	614.6	614.6	615.0	614.6	613.6	613.3	613.3	612.2	611.9	611.9
7.5°	629.0	628.3	627.3	628.0	628.3	628.0	628.3	627.3	627.3	626.3	626.6
10°	646.4	645.8	645.4	646.1	646.4	646.1	646.4	645.1	644.7	644.4	643.7
12.5°	665.6	664.2	665.3	665.3	665.6	667.0	665.3	665.9	664.6	664.6	664.2
15°	682.4	682.0	682.7	682.7	682.4	683.4	683.0	683.4	681.7	681.0	682.7
17.5°	693.0	691.9	692.3	691.9	691.9	691.9	692.6	692.6	691.6	691.3	691.9
20°	695.7	694.0	693.6	693.3	692.6	692.6	693.0	692.3	691.6	690.9	691.6
22.5°	695.0	693.0	690.9	689.9	688.9	687.5	687.1	686.5	685.4	685.4	685.8
25°	697.4	693.6	690.6	688.5	685.8	684.1	682.7	681.0	679.3	678.3	678.6
27.5°	705.6	701.5	697.4	693.3	689.2	685.8	683.0	680.0	677.2	675.2	674.2
30°	721.0	715.5	710.7	706.0	700.8	696.0	691.6	686.8	681.7	678.6	675.9
32.5°	738.8	735.0	732.0	726.5	721.0	715.2	709.7	705.6	698.1	692.3	687.5
35°	765.8	764.4	762.7	758.6	752.5	749.4	745.0	738.5	729.6	724.4	717.2
37.5°	803.1	803.4	802.1	800.4	801.0	795.2	792.5	791.8	782.9	779.5	768.9
40°	848.9	854.1	858.5	858.5	861.9	862.3	861.6	867.4	860.9	862.3	851.0
42.5°	899.9	912.2	919.0	924.2	935.5	940.6	949.1	961.8	962.5	969.0	969.7
45°	960.1	973.8	986.8	1000.1	1015.2	1032.9	1050.7	1063.7	1084.3	1088.7	1103.4
47.5°	1022.7	1042.5	1057.6	1074.7	1100.3	1123.2	1149.6	1176.3	1199.9	1216.6	1226.2
50°	1091.8	1112.0	1133.8	1153.0	1180.4	1212.5	1249.1	1285.7	1316.2	1345.9	1369.9
52.5°	1168.4	1190.6	1211.1	1236.1	1263.8	1302.1	1342.1	1392.4	1433.1	1473.8	1503.2
55°	1241.9	1266.9	1285.7	1317.5	1346.3	1385.6	1435.2	1494.7	1551.1	1600.4	1640.4
57.5°	1305.9	1330.5	1356.9	1384.2	1419.1	1458.4	1519.3	1587.0	1651.3	1716.0	1775.2
60°	1365.7	1398.9	1427.7	1463.9	1498.8	1544.3	1616.8	1700.6	1788.5	1868.9	1928.1
62.5°	1456.0	1498.5	1532.3	1577.1	1625.7	1679.4	1759.4	1851.8	1966.4	2070.0	2162.0
65°	1582.3	1647.2	1702.0	1757.0	1816.2	1890.1	1976.6	2093.9	2220.5	2373.7	2495.1
67.5°	1672.2	1753.6	1824.4	1893.5	1961.6	2043.3	2150.4	2287.9	2451.7	2612.8	2767.1
69°	1636.0	1722.1	1800.8	1869.6	1941.4	2023.1	2127.5	2278.3	2445.2	2622.4	2775.3
70°	1559.7	1652.7	1736.9	1802.5	1876.1	1957.1	2072.4	2216.4	2386.7	2570.1	2719.9
72.5°	1254.2	1352.4	1435.5	1508.4	1585.3	1680.4	1783.0	1921.2	2110.0	2289.6	2423.0
75°	864.0	955.6	1049.7	1104.1	1192.3	1260.1	1357.5	1499.1	1656.8	1788.8	1912.3
77.5°	488.8	538.0	609.2	631.4	694.7	739.8	791.5	878.7	960.8	1037.4	1059.6
80°	222.3	207.6	214.8	203.9	215.8	208.3	199.7	204.5	203.5	218.9	204.5
82.5°	160.1	138.2	114.9	99.2	87.2	73.9	62.9	56.4	55.8	58.5	57.5
85°	102.3	93.4	73.2	58.8	45.1	34.9	29.1	26.3	26.3	28.0	27.7
87.5°	17.8	15.4	9.6	8.2	7.2	4.8	3.1	3.1	2.7	3.4	4.4
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	603.4	603.0	602.3	602.0	602.0	601.3	601.0	601.6	602.0	602.3	601.3
5°	611.9	610.9	610.5	610.9	609.2	609.5	609.2	609.5	609.5	609.5	608.8
7.5°	625.6	624.6	625.2	624.6	623.5	623.2	623.2	622.2	620.8	620.5	620.8
10°	644.4	643.0	643.4	643.7	642.7	642.0	641.0	639.6	639.6	639.3	638.6
12.5°	664.6	663.9	663.9	664.2	663.9	662.5	661.2	660.5	660.1	660.1	660.1
15°	682.0	681.7	682.0	681.7	681.7	681.0	680.3	679.3	678.9	679.3	679.6
17.5°	691.9	690.9	691.9	692.3	691.9	691.9	691.9	691.3	690.9	690.9	691.3
20°	692.6	691.9	692.6	693.6	693.6	694.0	694.7	695.0	694.7	695.4	695.7
22.5°	685.8	685.8	686.8	687.8	689.5	690.2	691.6	692.3	693.0	694.0	694.7
25°	678.9	678.6	679.6	681.7	683.0	684.8	686.5	687.8	689.2	690.6	691.9
27.5°	674.2	673.8	674.5	676.2	677.9	680.0	682.7	684.8	686.5	688.2	689.2
30°	674.5	673.1	672.8	674.2	675.9	678.3	681.0	683.4	685.8	687.1	688.2
32.5°	684.4	681.0	679.6	679.3	680.0	681.7	683.7	686.1	687.8	689.2	689.5
35°	710.1	703.6	702.2	697.8	698.4	698.1	698.1	699.5	700.8	700.8	698.4
37.5°	762.1	752.8	746.3	741.9	737.4	737.1	736.4	735.7	732.3	730.2	729.9
40°	843.1	839.4	827.0	823.6	816.1	811.0	812.3	809.6	801.4	798.3	796.9
42.5°	961.5	963.5	956.7	940.6	934.1	924.2	916.0	914.6	907.1	900.9	896.1
45°	1100.3	1104.1	1099.0	1087.3	1075.7	1060.7	1050.7	1031.6	1024.1	1014.5	1008.0
47.5°	1243.0	1253.2	1245.0	1234.7	1228.2	1204.6	1184.1	1161.9	1150.6	1136.9	1130.8
50°	1384.6	1402.7	1397.9	1388.3	1381.1	1351.4	1331.5	1300.8	1294.3	1280.6	1273.1
52.5°	1526.2	1543.9	1554.5	1545.7	1540.5	1516.6	1502.9	1478.3	1459.8	1451.3	1450.9
55°	1669.1	1697.9	1714.6	1711.5	1703.0	1699.9	1686.2	1683.8	1669.5	1660.2	1647.9
57.5°	1809.0	1839.5	1868.5	1885.6	1892.8	1890.4	1896.9	1896.2	1898.3	1897.3	1877.1
60°	1986.9	2035.1	2077.5	2104.5	2130.2	2148.0	2152.4	2178.8	2171.2	2187.7	2156.2
62.5°	2237.9	2300.5	2364.8	2393.2	2424.7	2482.5	2496.2	2527.3	2532.1	2536.2	2519.4
65°	2587.8	2669.9	2767.1	2810.5	2859.8	2934.0	2980.8	3014.0	3013.0	2990.4	2968.9
67.5°	2886.4	2983.6	3072.8	3148.4	3222.0	3279.8	3329.0	3373.8	3376.2	3362.2	3325.3
69°	2912.1	3013.7	3110.8	3201.8	3274.6	3338.9	3388.9	3423.8	3431.3	3419.0	3384.8
70°	2864.5	2967.2	3072.8	3160.1	3242.5	3310.6	3364.3	3397.8	3408.0	3395.4	3363.2
72.5°	2572.1	2671.6	2750.6	2853.3	2970.6	3013.3	3096.1	3123.5	3148.8	3132.0	3112.9
75°	2014.9	2108.6	2190.4	2243.8	2297.5	2403.1	2423.0	2474.3	2491.7	2475.3	2496.5
77.5°	1049.7	1113.0	1140.3	1097.6	1104.1	1187.5	1140.3	1195.8	1227.6	1236.8	1250.1
80°	200.8	211.0	218.9	216.2	218.9	225.1	209.3	200.8	212.1	209.7	209.7
82.5°	59.2	58.1	58.1	61.2	60.9	62.3	62.3	59.9	61.6	61.6	61.9
85°	27.0	25.7	25.3	25.7	25.3	25.3	26.3	26.3	28.4	26.7	27.0
87.5°	3.4	3.1	3.4	3.4	2.7	2.7	3.1	3.4	3.4	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P148932

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CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	601.0	600.6	600.6	600.6	600.3	599.9	599.6	598.6	597.5	597.2	595.5
5°	607.5	607.8	607.1	606.4	606.4	606.4	605.4	602.7	600.6	599.6	597.2
7.5°	621.1	620.5	619.4	619.1	618.4	618.7	616.7	613.3	609.5	607.1	603.4
10°	639.3	638.6	637.9	637.2	636.2	636.2	633.8	628.7	622.8	618.7	611.9
12.5°	660.5	659.8	659.1	658.8	657.0	656.7	653.3	647.1	639.6	631.7	621.8
15°	680.0	678.9	678.6	677.6	676.5	676.2	673.1	664.9	655.7	646.8	633.8
17.5°	692.3	691.6	690.6	689.9	689.5	689.2	684.8	677.9	670.7	661.8	646.1
20°	696.4	696.7	696.0	695.4	694.3	693.6	689.5	683.0	681.7	676.9	660.8
22.5°	695.7	695.7	695.4	694.0	693.3	691.6	685.8	682.7	690.2	692.3	671.8
25°	693.0	692.6	691.6	690.6	688.5	686.1	677.2	678.9	700.1	703.9	674.2
27.5°	689.9	689.5	687.8	685.4	682.4	678.9	667.7	678.9	709.4	706.3	664.2
30°	688.2	686.8	684.4	681.0	676.9	673.1	660.8	687.8	715.9	698.1	636.9
32.5°	688.5	686.1	682.7	678.3	673.5	669.0	660.5	703.6	718.3	678.3	598.2
35°	696.7	693.0	688.5	684.1	679.3	675.2	675.9	725.5	717.9	648.5	560.9
37.5°	726.5	720.0	716.9	712.1	705.3	701.9	715.5	749.7	713.1	612.2	528.1
40°	792.2	786.7	782.2	769.9	772.3	769.6	782.6	782.9	707.0	581.8	500.7
42.5°	887.9	887.9	878.3	876.6	870.1	873.2	879.0	821.9	700.8	563.7	473.7
45°	1000.8	1009.3	1005.6	1004.6	1009.7	1015.8	989.2	868.1	701.2	547.9	442.3
47.5°	1134.9	1142.1	1145.8	1152.0	1158.5	1154.7	1099.6	916.7	707.3	525.4	401.9
50°	1277.5	1294.9	1300.4	1308.3	1314.1	1315.1	1204.3	966.6	713.8	484.0	358.1
52.5°	1454.3	1470.8	1476.6	1482.0	1477.6	1473.8	1306.9	1025.8	708.7	434.7	320.8
55°	1662.3	1665.4	1664.3	1657.5	1653.7	1633.2	1402.0	1088.7	668.7	389.2	285.3
57.5°	1878.8	1880.2	1867.9	1843.9	1816.2	1796.7	1493.3	1140.7	583.9	352.6	250.0
60°	2157.6	2129.5	2108.6	2072.0	2026.9	1985.2	1591.1	1169.8	502.8	317.4	210.4
62.5°	2494.1	2438.0	2392.9	2355.9	2289.2	2215.7	1716.0	1173.5	453.5	283.9	165.2
65°	2929.9	2870.7	2793.7	2730.5	2658.3	2559.1	1917.4	1146.5	429.3	244.9	120.7
67.5°	3272.9	3213.1	3126.9	3056.1	2963.1	2847.4	2084.4	1099.3	423.4	209.7	95.1
69°	3332.8	3267.5	3189.8	3101.2	3002.4	2878.9	2090.9	1044.6	414.5	196.3	87.2
70°	3310.9	3242.8	3167.9	3073.9	2963.1	2836.2	2041.6	983.7	396.8	188.8	84.5
72.5°	3065.3	2961.7	2886.4	2806.1	2671.3	2542.7	1757.7	744.3	308.9	159.0	79.0
75°	2454.1	2365.5	2280.7	2240.7	2128.8	2019.7	1319.6	472.7	201.8	98.8	61.9
77.5°	1251.2	1235.1	1259.4	1241.2	1160.5	1160.5	814.4	251.1	118.7	59.5	47.2
80°	224.7	234.3	229.8	239.4	222.7	247.3	286.3	168.6	84.1	45.5	38.6
82.5°	62.9	63.6	62.9	63.3	65.3	68.7	148.8	145.0	65.0	34.2	30.1
85°	29.4	29.8	30.4	30.4	33.2	33.9	99.9	104.0	38.0	18.8	20.2
87.5°	3.4	4.4	4.4	4.1	4.8	4.8	18.5	20.9	5.1	3.8	6.2
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):

	155°	165°	175°	180°
0°	600.6	600.6	600.6	600.6
2.5°	594.1	592.7	591.4	592.4
5°	596.2	594.1	592.4	593.4
7.5°	601.6	598.2	597.9	597.9
10°	608.5	603.7	602.3	602.3
12.5°	615.7	609.2	606.8	606.8
15°	623.2	614.0	610.5	609.5
17.5°	631.7	618.7	612.6	612.6
20°	639.9	619.4	610.2	609.8
22.5°	641.3	611.6	598.2	597.5
25°	631.1	593.1	575.6	572.2
27.5°	606.8	564.4	545.9	545.2
30°	570.2	526.7	507.9	505.9
32.5°	534.3	488.1	470.6	470.6
35°	498.0	452.9	430.3	427.9
37.5°	464.5	415.6	395.4	395.1
40°	433.7	383.1	363.6	360.5
42.5°	402.9	348.9	326.6	326.0
45°	366.3	311.6	292.4	290.7
47.5°	327.3	278.1	257.9	257.6
50°	292.1	246.9	226.8	226.8
52.5°	259.9	216.5	196.3	194.3
55°	223.7	182.0	161.4	159.0
57.5°	184.4	143.3	124.8	119.7
60°	142.6	104.3	85.5	82.8
62.5°	104.0	76.3	62.3	60.2
65°	78.3	65.0	53.4	51.3
67.5°	67.4	58.5	48.6	46.5
69°	62.6	55.4	46.5	44.5
70°	60.5	53.4	44.8	43.1
72.5°	55.8	48.9	41.0	40.4
75°	51.0	44.5	36.9	35.9
77.5°	49.3	38.6	31.8	31.1
80°	50.3	31.5	26.0	25.3
82.5°	41.0	25.3	20.2	19.2
85°	25.7	17.1	10.6	10.6
87.5°	6.5	5.5	3.1	3.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)