

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: AMETRIX

Report Number: P189141

Luminaire Tested: A06-SI-A-1-LED-30K-D-120-S

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P189141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87330-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: AMETRIX
Catalog Number: A06-SI-A-1-LED-30K-D-120-S
Description: ARROWLINEAR LED LUMINAIRE, EXTRA SMALL HOUSING
6-FOOT LONG EXTRUDED HOUSING WITH WHITE REFLECTOR AND FROSTED LENS
Light Source: (182) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

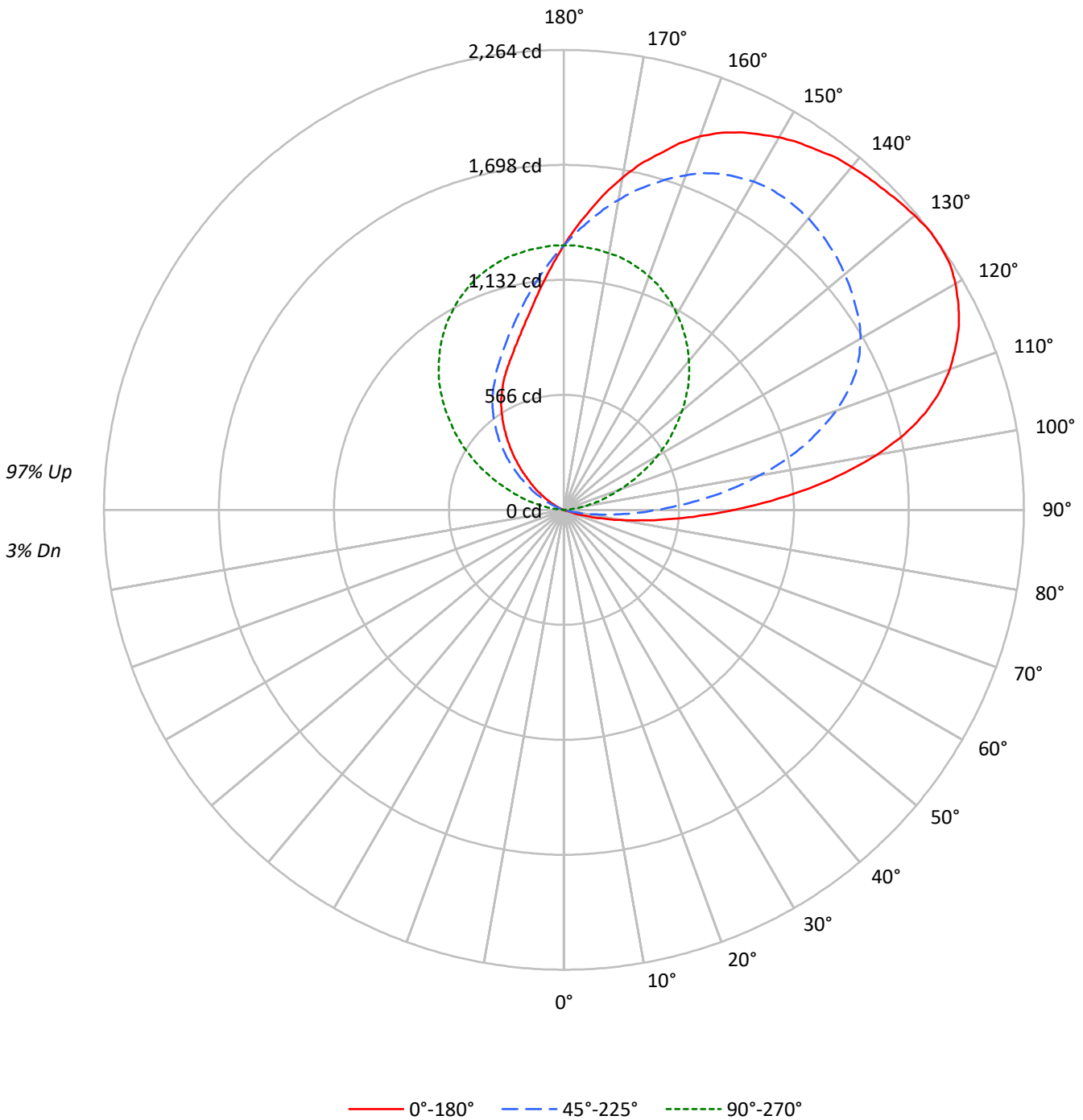
Lumens per Lamp: N/A
Luminaire Lumens: 5535.7 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 6.35' x L: 0.29' x H: 0.11')
CIE Type: Indirect

Input Watts (W): 60.6
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: 24 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	96	96	96	96	82	82	82	82	57	57	57	34	34	34	13	13	13	3
1	86	82	78	74	74	70	67	64	48	46	45	28	27	26	10	9	9	1
2	78	71	65	60	67	61	56	52	42	39	36	25	23	21	8	8	7	0
3	71	62	55	50	61	54	48	43	37	33	30	22	20	18	7	7	6	0
4	65	55	47	42	55	47	41	36	33	29	26	19	17	15	7	6	5	0
5	59	49	41	35	51	42	36	31	29	25	22	17	15	13	6	5	4	0
6	55	43	36	30	46	37	31	26	26	22	19	15	13	11	5	4	4	0
7	50	39	31	26	43	33	27	23	23	19	16	14	11	10	5	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	12	10	8	4	3	3	0
9	43	32	25	20	37	27	21	17	19	15	12	11	9	7	4	3	2	0
10	40	29	22	17	34	25	19	15	17	13	11	10	8	7	4	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	0	0	0	0	0
5°	0	0	0	0	0
10°	0	0	0	0	0
15°	0	0	0	0	0
20°	0	0	0	0	0
25°	0	0	0	0	0
30°	0	0	0	0	0
35°	0	0	0	0	0
40°	0	0	0	0	0
45°	0	0	0	0	0
50°	0	0	0	0	0
55°	0	0	0	0	0
60°	0	0	0	0	0
65°	0	0	0	0	0
70°	235	0	0	0	0
75°	1206	186	0	0	0
80°	3113	1421	0	0	0
85°	6617	4156	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 12973 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.4	0.0
70°-80°	27.6	0.5
80°-90°	143.6	2.6
90°-100°	371.5	6.7
100°-110°	618.8	11.2
110°-120°	788.1	14.2
120°-130°	869.8	15.7
130°-140°	859.5	15.5
140°-150°	767.2	13.9
150°-160°	595.2	10.8
160°-170°	369.5	6.7
170°-180°	124.3	2.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	171.7	3.1
90°-120°	1778.4	32.1
90°-150°	4275.0	77.2
90°-180°	5364.0	96.9
0°-180°	5535.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	4
75°	128	17	0	0	0	148
85°	523	259	0	0	0	381
90°	837	462	0	0	0	461
95°	1210	718	33	3	3	1062
105°	1842	1224	195	8	11	1927
115°	2145	1583	412	89	33	2119
125°	2262	1753	648	239	150	2023
135°	2228	1844	865	426	320	1727
145°	2164	1881	1040	612	520	1361
155°	2050	1825	1174	773	701	949
165°	1814	1658	1260	949	868	519
175°	1480	1427	1296	1177	1130	147
180°	1302	1302	1302	1302	1302	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	27.8	30.6	22.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	69.5	69.5	58.4	38.9	13.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	128.0	128.0	114.1	89.0	52.9	16.7	0.0	0.0	0.0	0.0	0.0
77.5°	200.3	197.5	180.8	150.2	105.7	55.6	8.3	0.0	0.0	0.0	0.0
80°	289.3	286.5	267.1	228.1	175.3	108.5	41.7	0.0	0.0	0.0	0.0
82.5°	395.0	392.3	367.2	322.7	258.7	178.0	89.0	19.5	0.0	0.0	0.0
85°	523.0	520.2	489.6	436.8	361.7	258.7	147.4	58.4	5.6	0.0	0.0
87.5°	670.4	659.3	631.5	567.5	470.1	353.3	219.8	105.7	25.0	0.0	0.0
90°	837.4	826.2	792.9	717.7	600.9	461.8	306.0	164.1	58.4	5.6	0.0
92.5°	1021.0	1018.2	968.1	879.1	742.8	581.4	406.2	233.7	102.9	27.8	11.1
95°	1210.1	1207.4	1151.7	1048.8	895.8	717.7	509.1	311.6	158.6	61.2	33.4
97.5°	1396.5	1393.8	1324.2	1218.5	1048.8	851.3	620.4	397.8	219.8	102.9	66.8
100°	1566.2	1560.7	1488.3	1377.1	1199.0	979.2	731.7	484.1	283.8	147.4	102.9
102.5°	1716.5	1705.3	1635.8	1518.9	1338.1	1107.2	840.1	573.1	356.1	200.3	147.4
105°	1841.6	1827.7	1763.7	1644.1	1457.7	1224.1	948.6	664.9	428.4	255.9	194.7
107.5°	1941.8	1930.7	1863.9	1749.8	1566.2	1327.0	1051.6	753.9	503.5	314.4	242.0
110°	2022.5	2014.1	1952.9	1838.9	1658.0	1427.1	1146.2	842.9	581.4	378.3	297.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2086.5	2080.9	2022.5	1908.4	1738.7	1510.6	1229.6	926.4	656.5	442.3	353.3
115°	2144.9	2139.3	2083.7	1975.2	1805.5	1582.9	1307.5	1007.1	734.4	506.3	411.7
117.5°	2189.4	2183.8	2128.2	2022.5	1858.3	1638.6	1371.5	1082.2	815.1	573.1	472.9
120°	2225.6	2217.2	2167.1	2064.2	1902.8	1685.9	1427.1	1154.5	890.2	639.8	531.4
122.5°	2253.4	2245.0	2197.7	2092.0	1936.2	1724.8	1480.0	1224.1	962.6	703.8	592.6
125°	2261.7	2256.2	2211.6	2105.9	1952.9	1752.6	1527.3	1285.3	1026.5	767.8	648.2
127.5°	2264.5	2258.9	2214.4	2111.5	1966.8	1780.4	1569.0	1340.9	1087.7	826.2	703.8
130°	2253.4	2253.4	2208.9	2111.5	1975.2	1805.5	1608.0	1393.8	1140.6	881.9	759.5
132.5°	2242.2	2239.5	2200.5	2108.7	1983.5	1827.7	1644.1	1438.3	1190.7	934.7	812.3
135°	2228.3	2228.3	2192.2	2108.7	1991.9	1844.4	1674.7	1477.2	1232.4	982.0	865.2
137.5°	2217.2	2217.2	2183.8	2105.9	1997.4	1861.1	1702.5	1507.8	1274.1	1029.3	912.5
140°	2203.3	2203.3	2169.9	2100.4	2000.2	1872.2	1719.2	1532.8	1301.9	1071.0	957.0
142.5°	2189.4	2189.4	2156.0	2092.0	2000.2	1877.8	1735.9	1552.3	1332.5	1110.0	1001.5
145°	2164.3	2167.1	2139.3	2078.1	1991.9	1880.6	1741.5	1563.5	1354.8	1146.2	1040.4
147.5°	2144.9	2144.9	2119.8	2061.4	1980.7	1877.8	1741.5	1569.0	1374.3	1176.8	1079.4
150°	2117.1	2117.1	2092.0	2044.7	1969.6	1866.7	1738.7	1571.8	1388.2	1204.6	1112.8
152.5°	2083.7	2086.5	2061.4	2016.9	1944.6	1847.2	1722.0	1566.2	1396.5	1229.6	1146.2
155°	2050.3	2053.1	2030.8	1986.3	1916.8	1825.0	1705.3	1560.7	1404.9	1251.9	1174.0
157.5°	2008.6	2011.3	1989.1	1944.6	1880.6	1794.4	1677.5	1549.5	1410.4	1268.6	1201.8
160°	1955.7	1958.5	1933.4	1894.5	1833.3	1752.6	1649.7	1532.8	1407.7	1285.3	1224.1
162.5°	1891.7	1891.7	1872.2	1836.1	1777.7	1708.1	1616.3	1513.4	1404.9	1296.4	1243.5
165°	1813.8	1819.4	1802.7	1769.3	1719.2	1658.0	1577.4	1488.3	1396.5	1304.7	1260.2
167.5°	1744.3	1741.5	1727.6	1702.5	1658.0	1608.0	1538.4	1463.3	1388.2	1313.1	1274.1
170°	1660.8	1658.0	1646.9	1624.7	1591.3	1549.5	1493.9	1435.5	1377.1	1313.1	1282.5
172.5°	1574.6	1569.0	1560.7	1546.8	1521.7	1491.1	1449.4	1404.9	1360.4	1313.1	1290.8
175°	1480.0	1480.0	1474.4	1463.3	1446.6	1427.1	1399.3	1368.7	1340.9	1310.3	1296.4
177.5°	1391.0	1391.0	1388.2	1382.6	1374.3	1365.9	1352.0	1338.1	1324.2	1307.5	1301.9
180°	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9



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CATALOG NUMBER: A06-SI-A-1-LED-30K-D-120-S

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	2.8	2.8
95°	0.0	2.8	2.8	2.8
97.5°	2.8	2.8	5.6	5.6
100°	8.3	5.6	5.6	5.6
102.5°	27.8	8.3	8.3	8.3
105°	50.1	8.3	11.1	11.1
107.5°	80.7	16.7	11.1	11.1
110°	114.1	33.4	13.9	13.9



TEST NUMBER: P189141

CATALOG NUMBER: A06-SI-A-1-LED-30K-D-120-S

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	150.2	58.4	25.0	19.5
115°	189.2	89.0	44.5	33.4
117.5°	230.9	119.6	72.3	55.6
120°	275.4	155.8	100.1	83.5
122.5°	322.7	197.5	136.3	114.1
125°	367.2	239.2	172.5	150.2
127.5°	414.5	283.8	211.4	189.2
130°	461.8	331.1	253.2	228.1
132.5°	509.1	378.3	300.4	272.6
135°	556.4	425.6	347.7	319.9
137.5°	600.9	475.7	397.8	370.0
140°	645.4	520.2	447.9	420.1
142.5°	692.7	567.5	498.0	470.1
145°	734.4	612.0	545.3	520.2
147.5°	778.9	653.8	595.3	570.3
150°	820.7	692.7	639.8	617.6
152.5°	862.4	731.7	678.8	659.3
155°	906.9	773.4	717.7	701.0
157.5°	948.6	812.3	756.7	740.0
160°	990.4	854.1	798.4	778.9
162.5°	1032.1	901.3	840.1	820.7
165°	1076.6	948.6	887.4	868.0
167.5°	1115.6	1001.5	940.3	920.8
170°	1154.5	1057.1	1001.5	982.0
172.5°	1190.7	1115.6	1071.0	1051.6
175°	1226.8	1176.8	1143.4	1129.5
177.5°	1265.8	1240.7	1218.5	1212.9
180°	1301.9	1301.9	1301.9	1301.9

(END OF REPORT)