

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: P189142

Luminaire Tested: A06-SI-A-1-LED-35K-D-120-S

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P189142
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-35K-D-120-S
Description: ARROWLINEAR LED LUMINAIRE, EXTRA SMALL HOUSING
6-FOOT LONG EXTRUDED HOUSING WITH WHITE REFLECTOR AND FROSTED LENS
Light Source: (182) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

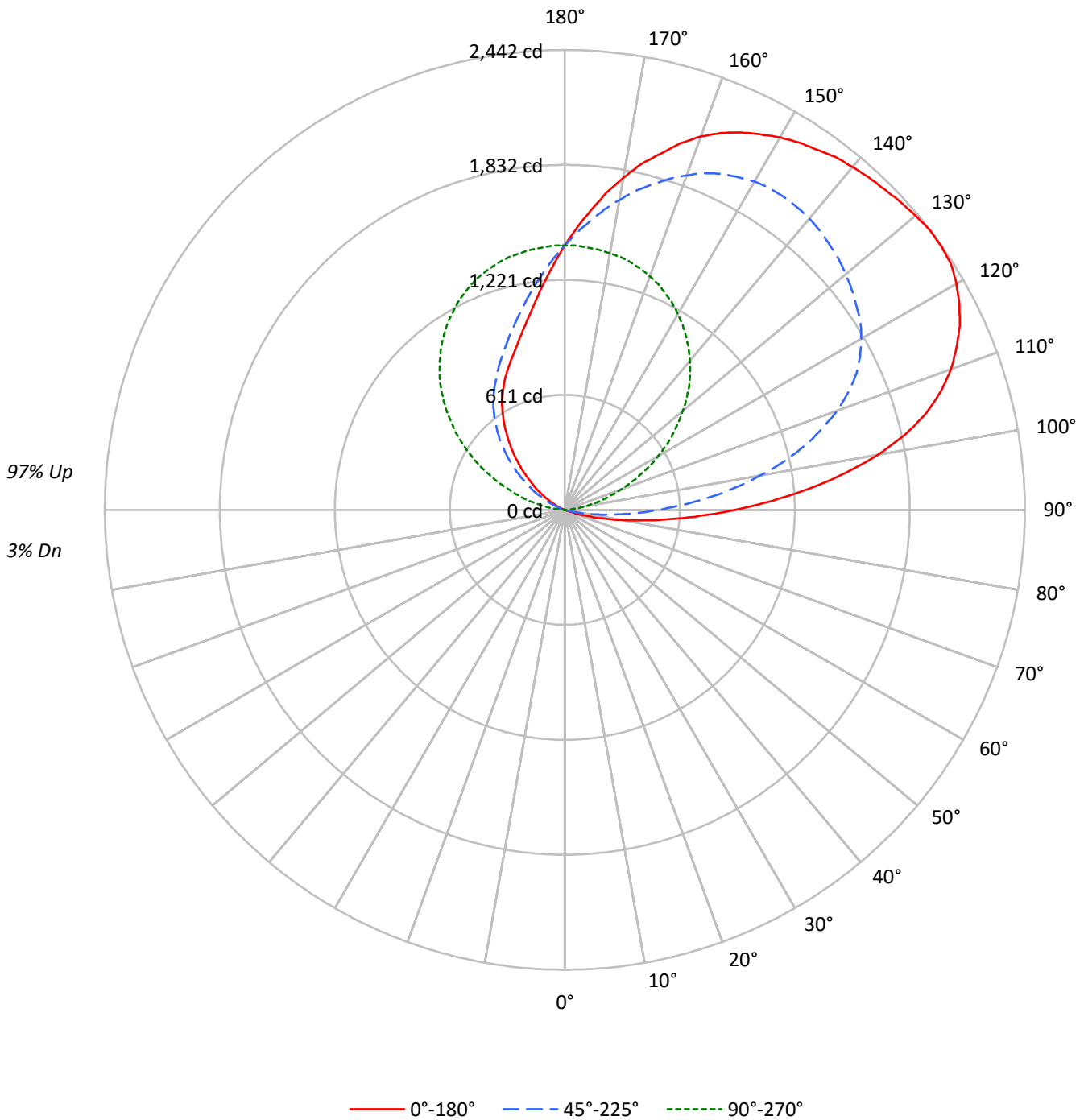
Lumens per Lamp: N/A
Luminaire Lumens: 5970.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 6.35' x L: 0.29' x H: 0.11')
CIE Type: Indirect

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°	253	0	0	0	0
75°	1301	200	0	0	0
80°	3358	1533	0	0	0
85°	7136	4482	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 13991 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°	0.5	0.0
70°-80°	29.8	0.5
80°-90°	154.9	2.6
90°-100°	400.6	6.7
100°-110°	667.4	11.2
110°-120°	849.9	14.2
120°-130°	938.1	15.7
130°-140°	927.0	15.5
140°-150°	827.4	13.9
150°-160°	641.9	10.8
160°-170°	398.5	6.7
170°-180°	134.1	2.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	185.1	3.1
90°-120°	1917.9	32.1
90°-150°	4610.4	77.2
90°-180°	5785.0	96.9
0°-180°	5970.0	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°	138	18	0	0	0	160
85°	564	279	0	0	0	411
90°	903	498	0	0	0	497
95°	1305	774	36	3	3	1145
105°	1986	1320	210	9	12	2079
115°	2313	1707	444	96	36	2285
125°	2439	1890	699	258	162	2181
135°	2403	1989	933	459	345	1862
145°	2334	2028	1122	660	561	1468
155°	2211	1968	1266	834	756	1023
165°	1956	1788	1359	1023	936	559
175°	1596	1539	1398	1269	1218	158
180°	1404	1404	1404	1404	1404	



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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°	30.0	33.0	24.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	75.0	75.0	63.0	42.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	138.0	138.0	123.0	96.0	57.0	18.0	0.0	0.0	0.0	0.0	0.0
77.5°	216.0	213.0	195.0	162.0	114.0	60.0	9.0	0.0	0.0	0.0	0.0
80°	312.0	309.0	288.0	246.0	189.0	117.0	45.0	0.0	0.0	0.0	0.0
82.5°	426.0	423.0	396.0	348.0	279.0	192.0	96.0	21.0	0.0	0.0	0.0
85°	564.0	561.0	528.0	471.0	390.0	279.0	159.0	63.0	6.0	0.0	0.0
87.5°	723.0	711.0	681.0	612.0	507.0	381.0	237.0	114.0	27.0	0.0	0.0
90°	903.1	891.1	855.1	774.1	648.0	498.0	330.0	177.0	63.0	6.0	0.0
92.5°	1101.1	1098.1	1044.1	948.1	801.1	627.0	438.0	252.0	111.0	30.0	12.0
95°	1305.1	1302.1	1242.1	1131.1	966.1	774.1	549.0	336.0	171.0	66.0	36.0
97.5°	1506.1	1503.1	1428.1	1314.1	1131.1	918.1	669.0	429.0	237.0	111.0	72.0
100°	1689.1	1683.1	1605.1	1485.1	1293.1	1056.1	789.1	522.0	306.0	159.0	111.0
102.5°	1851.1	1839.1	1764.1	1638.1	1443.1	1194.1	906.1	618.0	384.0	216.0	159.0
105°	1986.1	1971.1	1902.1	1773.1	1572.1	1320.1	1023.1	717.0	462.0	276.0	210.0
107.5°	2094.1	2082.1	2010.1	1887.1	1689.1	1431.1	1134.1	813.1	543.0	339.0	261.0
110°	2181.1	2172.1	2106.1	1983.1	1788.1	1539.1	1236.1	909.1	627.0	408.0	321.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2250.2	2244.2	2181.1	2058.1	1875.1	1629.1	1326.1	999.1	708.0	477.0	381.0
115°	2313.2	2307.2	2247.2	2130.1	1947.1	1707.1	1410.1	1086.1	792.1	546.0	444.0
117.5°	2361.2	2355.2	2295.2	2181.1	2004.1	1767.1	1479.1	1167.1	879.1	618.0	510.0
120°	2400.2	2391.2	2337.2	2226.2	2052.1	1818.1	1539.1	1245.1	960.1	690.0	573.0
122.5°	2430.2	2421.2	2370.2	2256.2	2088.1	1860.1	1596.1	1320.1	1038.1	759.1	639.0
125°	2439.2	2433.2	2385.2	2271.2	2106.1	1890.1	1647.1	1386.1	1107.1	828.1	699.0
127.5°	2442.2	2436.2	2388.2	2277.2	2121.1	1920.1	1692.1	1446.1	1173.1	891.1	759.1
130°	2430.2	2430.2	2382.2	2277.2	2130.1	1947.1	1734.1	1503.1	1230.1	951.1	819.1
132.5°	2418.2	2415.2	2373.2	2274.2	2139.1	1971.1	1773.1	1551.1	1284.1	1008.1	876.1
135°	2403.2	2403.2	2364.2	2274.2	2148.1	1989.1	1806.1	1593.1	1329.1	1059.1	933.1
137.5°	2391.2	2391.2	2355.2	2271.2	2154.1	2007.1	1836.1	1626.1	1374.1	1110.1	984.1
140°	2376.2	2376.2	2340.2	2265.2	2157.1	2019.1	1854.1	1653.1	1404.1	1155.1	1032.1
142.5°	2361.2	2361.2	2325.2	2256.2	2157.1	2025.1	1872.1	1674.1	1437.1	1197.1	1080.1
145°	2334.2	2337.2	2307.2	2241.2	2148.1	2028.1	1878.1	1686.1	1461.1	1236.1	1122.1
147.5°	2313.2	2313.2	2286.2	2223.2	2136.1	2025.1	1878.1	1692.1	1482.1	1269.1	1164.1
150°	2283.2	2283.2	2256.2	2205.1	2124.1	2013.1	1875.1	1695.1	1497.1	1299.1	1200.1
152.5°	2247.2	2250.2	2223.2	2175.1	2097.1	1992.1	1857.1	1689.1	1506.1	1326.1	1236.1
155°	2211.2	2214.2	2190.1	2142.1	2067.1	1968.1	1839.1	1683.1	1515.1	1350.1	1266.1
157.5°	2166.1	2169.1	2145.1	2097.1	2028.1	1935.1	1809.1	1671.1	1521.1	1368.1	1296.1
160°	2109.1	2112.1	2085.1	2043.1	1977.1	1890.1	1779.1	1653.1	1518.1	1386.1	1320.1
162.5°	2040.1	2040.1	2019.1	1980.1	1917.1	1842.1	1743.1	1632.1	1515.1	1398.1	1341.1
165°	1956.1	1962.1	1944.1	1908.1	1854.1	1788.1	1701.1	1605.1	1506.1	1407.1	1359.1
167.5°	1881.1	1878.1	1863.1	1836.1	1788.1	1734.1	1659.1	1578.1	1497.1	1416.1	1374.1
170°	1791.1	1788.1	1776.1	1752.1	1716.1	1671.1	1611.1	1548.1	1485.1	1416.1	1383.1
172.5°	1698.1	1692.1	1683.1	1668.1	1641.1	1608.1	1563.1	1515.1	1467.1	1416.1	1392.1
175°	1596.1	1596.1	1590.1	1578.1	1560.1	1539.1	1509.1	1476.1	1446.1	1413.1	1398.1
177.5°	1500.1	1500.1	1497.1	1491.1	1482.1	1473.1	1458.1	1443.1	1428.1	1410.1	1404.1
180°	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1



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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	3.0	3.0
95°	0.0	3.0	3.0	3.0
97.5°	3.0	3.0	6.0	6.0
100°	9.0	6.0	6.0	6.0
102.5°	30.0	9.0	9.0	9.0
105°	54.0	9.0	12.0	12.0
107.5°	87.0	18.0	12.0	12.0
110°	123.0	36.0	15.0	15.0



TEST NUMBER: P189142

CATALOG NUMBER: A06-SI-A-1-LED-35K-D-120-S

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	162.0	63.0	27.0	21.0
115°	204.0	96.0	48.0	36.0
117.5°	249.0	129.0	78.0	60.0
120°	297.0	168.0	108.0	90.0
122.5°	348.0	213.0	147.0	123.0
125°	396.0	258.0	186.0	162.0
127.5°	447.0	306.0	228.0	204.0
130°	498.0	357.0	273.0	246.0
132.5°	549.0	408.0	324.0	294.0
135°	600.0	459.0	375.0	345.0
137.5°	648.0	513.0	429.0	399.0
140°	696.0	561.0	483.0	453.0
142.5°	747.1	612.0	537.0	507.0
145°	792.1	660.0	588.0	561.0
147.5°	840.1	705.0	642.0	615.0
150°	885.1	747.1	690.0	666.0
152.5°	930.1	789.1	732.0	711.0
155°	978.1	834.1	774.1	756.1
157.5°	1023.1	876.1	816.1	798.1
160°	1068.1	921.1	861.1	840.1
162.5°	1113.1	972.1	906.1	885.1
165°	1161.1	1023.1	957.1	936.1
167.5°	1203.1	1080.1	1014.1	993.1
170°	1245.1	1140.1	1080.1	1059.1
172.5°	1284.1	1203.1	1155.1	1134.1
175°	1323.1	1269.1	1233.1	1218.1
177.5°	1365.1	1338.1	1314.1	1308.1
180°	1404.1	1404.1	1404.1	1404.1

(END OF REPORT)