

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: CORELITE

Report Number: 16232

Luminaire Tested: **IW-SP-2T5-IC-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16232
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IW-SP-2T5-IC-120
Description: DIRECT/INDIRECT WALL MOUNT - IRIDIUM WALL WITH SPECULAR REFLECTOR
AND WHITE LENS OVER PERFORATIONS
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS

FP54/841/HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

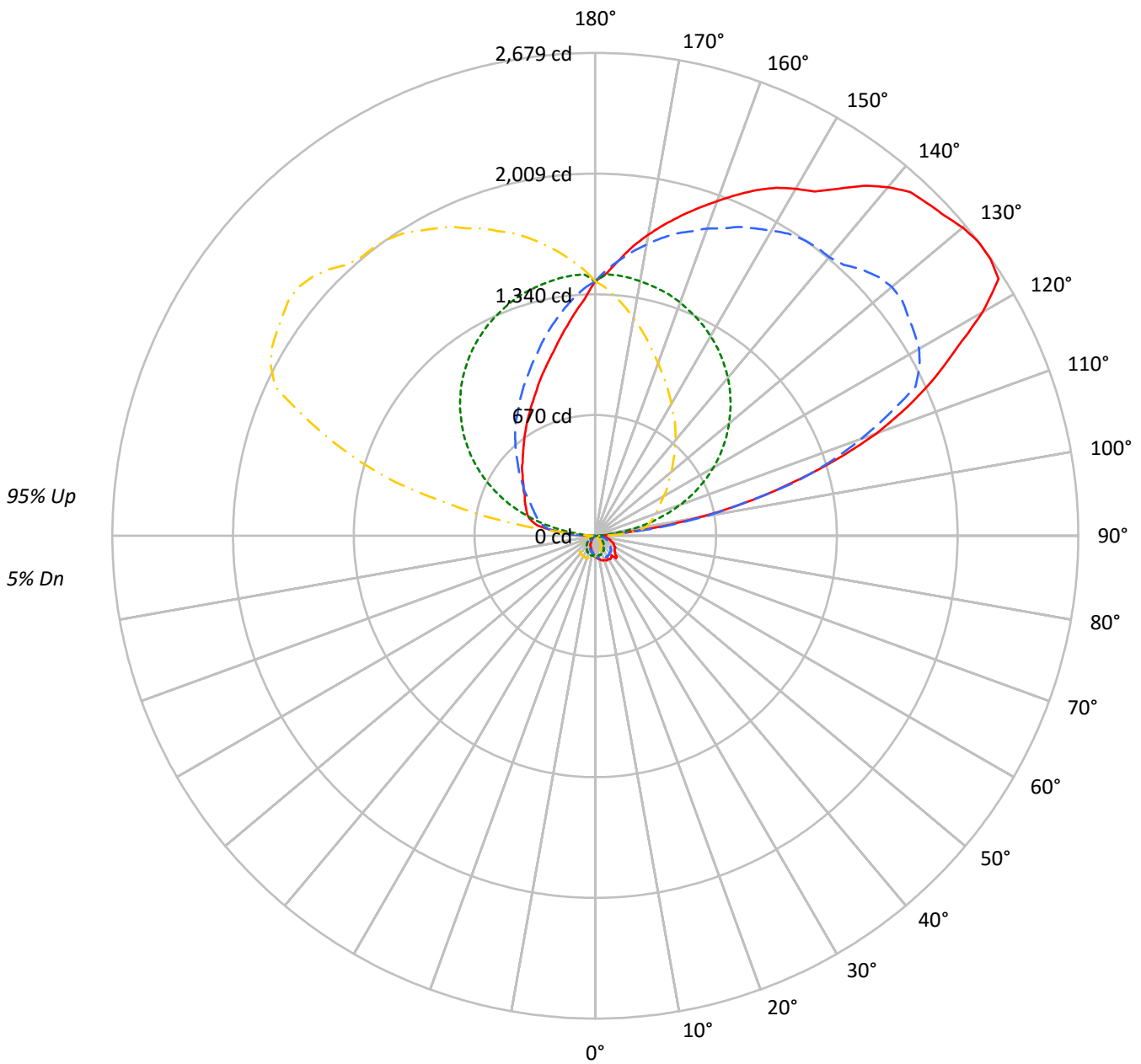
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 6466.7 lumens
Efficiency: 71.9%
Efficacy: 53.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.21 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.67' x H: 0.09')
CIE Type: Indirect

Input Watts (W): 122
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



TEST NUMBER: 16232
CATALOG NUMBER: IW-SP-2T5-IC-120

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



TEST NUMBER: 16232

CATALOG NUMBER: IW-SP-2T5-IC-120

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	69	69	69	69	60	60	60	60	42	42	42	26	26	26	11	11	11	4
1	63	60	57	55	54	52	50	48	36	35	34	22	22	21	9	9	9	3
2	57	52	48	45	49	45	42	39	32	30	28	20	18	18	8	8	7	3
3	52	46	41	37	45	40	36	33	28	26	23	17	16	15	7	7	6	2
4	48	40	35	31	41	35	31	27	25	22	20	15	14	12	6	6	5	2
5	44	36	30	26	37	31	27	23	22	19	17	14	12	11	6	5	5	2
6	40	32	27	23	34	28	23	20	20	17	15	12	10	9	5	4	4	1
7	37	29	23	20	32	25	20	17	18	15	13	11	9	8	5	4	3	1
8	34	26	21	17	29	22	18	15	16	13	11	10	8	7	4	4	3	1
9	31	23	18	15	27	20	16	13	14	12	10	9	7	6	4	3	3	1
10	29	21	16	13	25	18	14	12	13	10	9	8	7	5	4	3	2	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1967	1967	1967	1967
5°	2162	1874	1837	1874
10°	2271	1750	1577	1750
15°	2504	1708	1514	1708
20°	2620	1558	1354	1558
25°	2859	1545	1156	1545
30°	2929	1424	1049	1424
35°	3145	1211	837	1211
40°	3114	1126	587	1126
45°	3999	1043	512	1043
50°	3755	945	352	945
55°	3784	778	163	778
60°	4237	628	17	628
65°	4433	461	19	461
70°	4646	257	24	257
75°	5209	190	31	190
80°	5792	12	44	12
85°	6571	14	77	14



TEST NUMBER: 16232

CATALOG NUMBER: IW-SP-2T5-IC-120

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.7	0.2	0.1
10°-20°	30.9	0.5	0.3
20°-30°	46.9	0.7	0.5
30°-40°	55.9	0.9	0.6
40°-50°	58.5	0.9	0.6
50°-60°	50.8	0.8	0.6
60°-70°	39.8	0.6	0.4
70°-80°	27.1	0.4	0.3
80°-90°	13.6	0.2	0.2
90°-100°	194.1	3.0	2.2
100°-110°	700.5	10.8	7.8
110°-120°	1037.1	16.0	11.5
120°-130°	1127.2	17.4	12.5
130°-140°	1034.1	16.0	11.5
140°-150°	858.0	13.3	9.5
150°-160°	646.7	10.0	7.2
160°-170°	399.9	6.2	4.4
170°-180°	135.1	2.1	1.5
0°-30°	88.4	1.4	1.0
0°-40°	144.3	2.2	1.6
0°-60°	253.6	3.9	2.8
0°-90°	334.2	5.2	3.7
90°-120°	1931.7	29.9	21.5
90°-150°	4950.9	76.6	55.0
90°-180°	6133.0	94.8	68.1
0°-180°	6466.7	100.0	71.9

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	114	114	114	114	114	
5°	125	113	106	113	125	12
15°	141	109	85	109	141	40
25°	152	101	61	101	152	69
35°	152	79	40	79	152	94
45°	168	65	22	65	168	122
55°	130	45	6	45	130	119
65°	114	24	0	24	114	112
75°	85	8	0	8	85	87
85°	42	0	0	0	42	42
90°	28	0	0	0	28	17
95°	85	56	162	56	85	191
105°	1121	354	380	354	1121	1186
115°	2079	634	430	634	2079	2052
125°	2676	867	486	867	2676	2371
135°	2607	1061	571	1061	2607	2017
145°	2350	1216	682	1216	2350	1486
155°	2116	1332	821	1332	2116	980
165°	1838	1410	1001	1410	1838	525
175°	1538	1450	1248	1450	1538	152
180°	1412	1412	1412	1412	1412	



TEST NUMBER: 16232

CATALOG NUMBER: IW-SP-2T5-IC-120

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
2.5°	122.2	117.2	120.1	114.3	114.6	109.2	109.2	112.1	114.3	112.1	109.2
5°	125.1	120.1	120.1	117.2	113.2	112.1	109.2	104.1	106.3	104.1	109.2
7.5°	130.2	122.2	125.1	117.2	110.6	104.1	93.3	101.2	98.3	101.2	93.3
10°	130.2	128.0	128.0	120.1	109.2	104.1	93.3	90.4	90.4	90.4	93.3
12.5°	138.2	133.1	130.2	120.1	112.1	101.2	93.3	88.2	90.4	88.2	93.3
15°	141.1	136.0	133.1	120.1	109.2	96.2	90.4	82.4	85.3	82.4	90.4
17.5°	144.0	136.0	128.0	117.2	108.1	96.2	85.3	77.3	72.2	77.3	85.3
20°	144.0	141.1	133.1	117.2	101.2	90.4	80.2	72.2	74.4	72.2	80.2
22.5°	146.2	144.0	133.1	120.1	104.1	88.2	77.3	66.4	69.3	66.4	77.3
25°	151.9	146.2	130.2	114.3	101.2	80.2	69.3	61.4	61.4	61.4	69.3
27.5°	149.1	144.0	136.0	112.1	94.7	80.2	64.3	56.3	58.5	56.3	64.3
30°	149.1	146.2	130.2	112.1	93.3	72.2	64.3	50.5	53.4	50.5	64.3
32.5°	154.1	146.2	133.1	109.2	87.8	69.3	56.3	40.4	42.5	40.4	56.3
35°	151.9	149.1	128.0	109.2	78.8	66.4	50.5	40.4	40.4	40.4	50.5
37.5°	146.2	144.0	130.2	104.1	78.8	58.5	48.3	34.6	34.6	34.6	48.3
40°	141.1	146.2	122.2	98.3	72.2	53.4	40.4	32.4	26.6	32.4	40.4
42.5°	170.1	144.0	125.1	98.3	72.2	48.3	37.5	26.6	26.6	26.6	37.5
45°	167.9	138.2	122.2	93.3	65.4	45.4	32.4	18.6	21.5	18.6	32.4
47.5°	149.1	138.2	114.3	90.4	62.8	40.4	29.5	16.4	16.4	16.4	29.5
50°	144.0	133.1	114.3	82.4	57.4	29.5	18.6	13.5	13.5	13.5	18.6
52.5°	136.0	128.0	106.3	80.2	50.5	26.6	8.5	8.5	5.6	8.5	8.5
55°	130.2	125.1	104.1	72.2	45.4	21.5	13.5	5.6	5.6	5.6	13.5
57.5°	128.0	122.2	101.2	72.2	40.0	16.4	8.5	0.5	2.7	0.5	8.5
60°	128.0	117.2	93.3	61.4	34.9	8.5	5.6	0.5	0.5	0.5	5.6
62.5°	117.2	109.2	88.2	58.5	28.0	10.6	5.6	2.7	0.5	2.7	5.6
65°	114.3	104.1	72.2	50.5	24.1	2.7	2.7	0.5	0.5	0.5	2.7
67.5°	106.3	101.2	72.2	45.4	13.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	98.3	90.4	69.3	37.5	12.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	88.2	82.4	61.4	32.4	9.6	0.5	0.5	0.5	0.5	0.5	0.5
75°	85.3	80.2	53.4	29.5	8.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	72.2	66.4	45.4	18.6	1.6	0.5	0.5	0.5	0.5	0.5	0.5
80°	66.4	61.4	32.4	18.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	58.5	50.5	29.5	13.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	42.5	45.4	21.5	8.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	40.4	34.6	16.4	2.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	28.0	21.5	15.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	29.5	32.4	16.4	50.5	20.1	77.3	104.1	53.4	72.2	53.4	104.1
95°	85.3	125.1	117.2	246.9	56.3	157.0	188.9	144.0	162.1	144.0	188.9
97.5°	310.6	380.2	358.5	488.9	121.2	191.8	254.8	228.8	246.9	228.8	254.8
100°	581.7	783.1	618.6	791.1	196.9	204.8	284.6	302.7	324.4	302.7	284.6
102.5°	860.6	905.6	849.8	881.7	278.8	212.8	308.5	321.5	356.3	321.5	308.5
105°	1120.8	1146.9	1144.7	1001.2	354.5	244.7	321.5	356.3	380.2	356.3	321.5
107.5°	1396.9	1449.8	1365.0	1099.1	429.1	270.8	340.4	374.4	396.2	374.4	340.4
110°	1659.2	1688.2	1569.3	1191.8	500.5	297.6	356.3	385.3	406.3	385.3	356.3



TEST NUMBER: 16232

CATALOG NUMBER: IW-SP-2T5-IC-120

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1877.3	1898.3	1762.8	1279.5	569.7	334.6	372.2	398.3	417.2	398.3	372.2
115°	2078.8	2094.7	1959.2	1341.1	633.5	369.3	390.4	414.3	430.2	414.3	390.4
117.5°	2262.1	2307.0	2028.0	1378.0	697.2	414.3	412.1	425.1	441.1	425.1	412.1
120°	2479.5	2484.6	2073.7	1391.1	755.2	451.9	438.2	444.0	451.9	444.0	438.2
122.5°	2651.9	2527.3	2097.6	1459.9	813.9	496.9	467.2	459.9	473.0	459.9	467.2
125°	2675.9	2530.2	2118.6	1486.7	866.8	517.9	491.1	473.0	486.0	473.0	491.1
127.5°	2678.8	2524.4	2145.4	1521.5	920.1	581.7	517.9	501.9	507.0	501.9	517.9
130°	2659.9	2508.5	2147.6	1545.4	967.5	624.4	552.7	523.0	525.9	523.0	552.7
132.5°	2628.0	2500.5	2126.6	1563.5	1015.7	674.4	581.7	549.8	552.7	549.8	581.7
135°	2607.0	2490.4	2089.6	1579.5	1060.6	719.3	616.4	573.7	570.8	573.7	616.4
137.5°	2586.0	2439.6	2038.9	1587.5	1103.4	762.1	653.4	600.5	594.7	600.5	653.4
140°	2524.4	2378.8	2017.9	1595.4	1144.7	809.9	690.4	629.5	621.5	629.5	690.4
142.5°	2447.6	2294.0	2017.9	1606.3	1180.2	852.7	730.2	656.3	650.5	656.3	730.2
145°	2349.8	2200.5	2007.0	1614.3	1216.1	894.7	770.1	690.4	682.4	690.4	770.1
147.5°	2264.3	2192.5	1988.2	1619.3	1249.1	916.4	801.9	706.3	714.3	706.3	801.9
150°	2222.2	2155.6	1954.1	1619.3	1278.4	985.3	844.7	759.2	749.1	759.2	844.7
152.5°	2176.6	2102.7	1922.2	1617.2	1307.4	1027.3	886.7	799.1	783.1	799.1	886.7
155°	2115.7	2049.8	1890.4	1619.3	1331.7	1073.0	929.5	836.7	820.8	836.7	929.5
157.5°	2046.9	1983.1	1845.4	1611.4	1354.1	1117.9	971.5	881.7	860.6	881.7	971.5
160°	1975.1	1922.2	1813.5	1603.4	1376.9	1154.8	1019.3	921.5	908.5	921.5	1019.3
162.5°	1906.3	1863.5	1770.8	1587.5	1396.5	1194.7	1065.0	969.3	953.4	969.3	1065.0
165°	1837.5	1805.6	1736.0	1571.5	1409.9	1231.7	1120.8	1017.2	1001.2	1017.2	1120.8
167.5°	1767.9	1709.9	1691.1	1539.6	1423.3	1263.5	1173.7	1073.0	1054.1	1073.0	1173.7
170°	1696.2	1678.0	1641.1	1526.6	1433.5	1285.3	1223.7	1101.9	1115.0	1101.9	1223.7
172.5°	1622.2	1606.3	1590.4	1502.7	1444.0	1330.2	1277.3	1189.6	1178.8	1189.6	1277.3
175°	1537.5	1523.7	1534.6	1475.9	1449.8	1362.1	1327.3	1253.4	1247.6	1253.4	1327.3
177.5°	1457.7	1454.8	1478.8	1449.8	1451.9	1391.1	1375.1	1317.2	1317.2	1317.2	1375.1
180°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1



TEST NUMBER: 16232

CATALOG NUMBER: IW-SP-2T5-IC-120

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	114.0	114.0	114.0	114.0	114.0	114.0
2.5°	109.2	114.6	114.3	120.1	117.2	122.2
5°	112.1	113.2	117.2	120.1	120.1	125.1
7.5°	104.1	110.6	117.2	125.1	122.2	130.2
10°	104.1	109.2	120.1	128.0	128.0	130.2
12.5°	101.2	112.1	120.1	130.2	133.1	138.2
15°	96.2	109.2	120.1	133.1	136.0	141.1
17.5°	96.2	108.1	117.2	128.0	136.0	144.0
20°	90.4	101.2	117.2	133.1	141.1	144.0
22.5°	88.2	104.1	120.1	133.1	144.0	146.2
25°	80.2	101.2	114.3	130.2	146.2	151.9
27.5°	80.2	94.7	112.1	136.0	144.0	149.1
30°	72.2	93.3	112.1	130.2	146.2	149.1
32.5°	69.3	87.8	109.2	133.1	146.2	154.1
35°	66.4	78.8	109.2	128.0	149.1	151.9
37.5°	58.5	78.8	104.1	130.2	144.0	146.2
40°	53.4	72.2	98.3	122.2	146.2	141.1
42.5°	48.3	72.2	98.3	125.1	144.0	170.1
45°	45.4	65.4	93.3	122.2	138.2	167.9
47.5°	40.4	62.8	90.4	114.3	138.2	149.1
50°	29.5	57.4	82.4	114.3	133.1	144.0
52.5°	26.6	50.5	80.2	106.3	128.0	136.0
55°	21.5	45.4	72.2	104.1	125.1	130.2
57.5°	16.4	40.0	72.2	101.2	122.2	128.0
60°	8.5	34.9	61.4	93.3	117.2	128.0
62.5°	10.6	28.0	58.5	88.2	109.2	117.2
65°	2.7	24.1	50.5	72.2	104.1	114.3
67.5°	0.5	13.5	45.4	72.2	101.2	106.3
70°	0.5	12.5	37.5	69.3	90.4	98.3
72.5°	0.5	9.6	32.4	61.4	82.4	88.2
75°	0.5	8.5	29.5	53.4	80.2	85.3
77.5°	0.5	1.6	18.6	45.4	66.4	72.2
80°	0.5	0.5	18.6	32.4	61.4	66.4
82.5°	0.5	0.5	13.5	29.5	50.5	58.5
85°	0.5	0.5	8.5	21.5	45.4	42.5
87.5°	0.5	0.5	2.7	16.4	34.6	40.4
90°	0.5	0.5	0.5	15.0	21.5	28.0
92.5°	77.3	20.1	50.5	16.4	32.4	29.5
95°	157.0	56.3	246.9	117.2	125.1	85.3
97.5°	191.8	121.2	488.9	358.5	380.2	310.6
100°	204.8	196.9	791.1	618.6	783.1	581.7
102.5°	212.8	278.8	881.7	849.8	905.6	860.6
105°	244.7	354.5	1001.2	1144.7	1146.9	1120.8
107.5°	270.8	429.1	1099.1	1365.0	1449.8	1396.9
110°	297.6	500.5	1191.8	1569.3	1688.2	1659.2



TEST NUMBER: 16232

CATALOG NUMBER: IW-SP-2T5-IC-120

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	334.6	569.7	1279.5	1762.8	1898.3	1877.3
115°	369.3	633.5	1341.1	1959.2	2094.7	2078.8
117.5°	414.3	697.2	1378.0	2028.0	2307.0	2262.1
120°	451.9	755.2	1391.1	2073.7	2484.6	2479.5
122.5°	496.9	813.9	1459.9	2097.6	2527.3	2651.9
125°	517.9	866.8	1486.7	2118.6	2530.2	2675.9
127.5°	581.7	920.1	1521.5	2145.4	2524.4	2678.8
130°	624.4	967.5	1545.4	2147.6	2508.5	2659.9
132.5°	674.4	1015.7	1563.5	2126.6	2500.5	2628.0
135°	719.3	1060.6	1579.5	2089.6	2490.4	2607.0
137.5°	762.1	1103.4	1587.5	2038.9	2439.6	2586.0
140°	809.9	1144.7	1595.4	2017.9	2378.8	2524.4
142.5°	852.7	1180.2	1606.3	2017.9	2294.0	2447.6
145°	894.7	1216.1	1614.3	2007.0	2200.5	2349.8
147.5°	916.4	1249.1	1619.3	1988.2	2192.5	2264.3
150°	985.3	1278.4	1619.3	1954.1	2155.6	2222.2
152.5°	1027.3	1307.4	1617.2	1922.2	2102.7	2176.6
155°	1073.0	1331.7	1619.3	1890.4	2049.8	2115.7
157.5°	1117.9	1354.1	1611.4	1845.4	1983.1	2046.9
160°	1154.8	1376.9	1603.4	1813.5	1922.2	1975.1
162.5°	1194.7	1396.5	1587.5	1770.8	1863.5	1906.3
165°	1231.7	1409.9	1571.5	1736.0	1805.6	1837.5
167.5°	1263.5	1423.3	1539.6	1691.1	1709.9	1767.9
170°	1285.3	1433.5	1526.6	1641.1	1678.0	1696.2
172.5°	1330.2	1444.0	1502.7	1590.4	1606.3	1622.2
175°	1362.1	1449.8	1475.9	1534.6	1523.7	1537.5
177.5°	1391.1	1451.9	1449.8	1478.8	1454.8	1457.7
180°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1

(END OF REPORT)