

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: CORELITE

Report Number: P286909

Luminaire Tested: **DWI-WD-65L840-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87015-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DWI-WD-65L840-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM DIFFUSE OPTIC, ASYMMETRIC
Light Source: (154) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6412.5 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.5 / 1.34 / 1.55
Luminous Opening: Rectangular (W 3.86' x L: 0.36' x H: 0')
CIE Type: General Diffuse

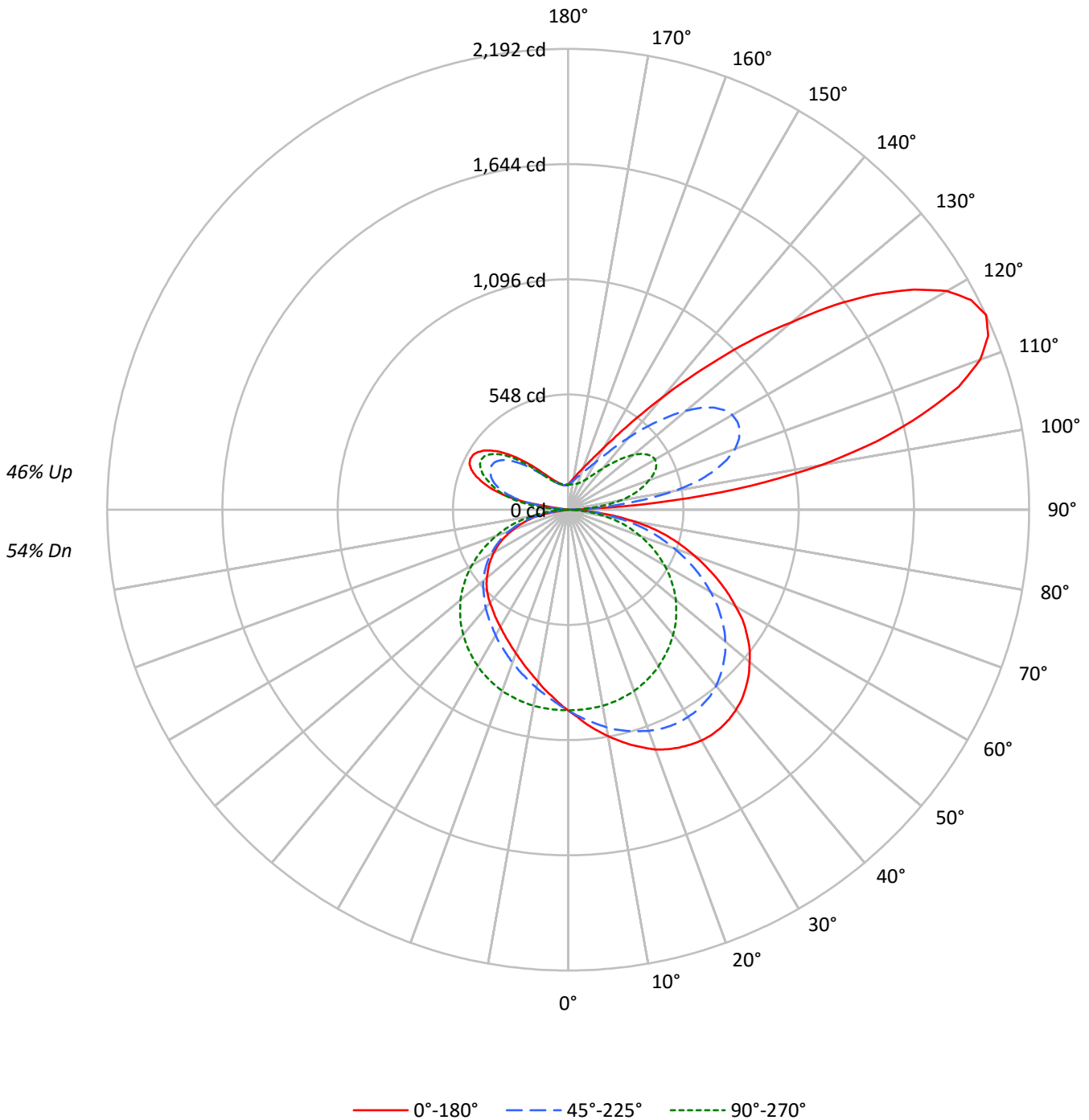
Input Watts (W): 57.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P286909

CATALOG NUMBER: DWI-WD-65L840-1D-UNV-STD-W-WM-4

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	98	93	89	85	91	87	83	80	74	72	69	63	61	59	52	51	49	44
2	89	81	74	69	82	75	69	64	64	60	56	54	51	48	45	43	41	36
3	81	70	63	56	74	65	59	53	56	51	46	47	43	40	39	36	34	30
4	73	62	54	47	68	58	50	44	49	44	39	42	37	34	35	31	29	25
5	67	55	46	40	62	51	43	38	44	38	33	37	32	29	31	27	24	21
6	62	49	40	34	57	46	38	32	39	33	29	33	29	25	28	24	21	18
7	57	44	36	30	52	41	34	28	35	29	25	30	25	22	25	22	19	16
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	23	19	17	14
9	49	36	29	23	45	34	27	22	29	24	20	25	21	17	21	18	15	13
10	46	33	26	21	42	31	24	20	27	21	18	23	19	15	20	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7289	7289	7289
5°	7861	7300	6822
10°	8485	7351	6435
15°	9160	7393	6135
20°	9871	7460	5905
25°	10524	7517	5760
30°	11184	7582	5687
35°	11804	7656	5692
40°	12386	7736	5764
45°	12909	7847	5897
50°	13383	7943	6002
55°	13824	8014	6126
60°	14052	8077	6239
65°	14178	8118	6332
70°	14255	8113	6241
75°	14525	8120	6089
80°	13898	7752	4254
85°	9984	6031	0



TEST NUMBER: P286909

CATALOG NUMBER: DWI-WD-65L840-1D-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.4
10°-20°	269.4	4.2
20°-30°	429.9	6.7
30°-40°	553.2	8.6
40°-50°	618.9	9.7
50°-60°	606.6	9.5
60°-70°	505.5	7.9
70°-80°	327.7	5.1
80°-90°	81.1	1.3
90°-100°	190.9	3.0
100°-110°	645.5	10.1
110°-120°	775.3	12.1
120°-130°	634.6	9.9
130°-140°	372.3	5.8
140°-150°	174.3	2.7
150°-160°	83.7	1.3
160°-170°	40.3	0.6
170°-180°	11.9	0.2
0°-30°	790.6	12.3
0°-40°	1343.8	21.0
0°-60°	2569.3	40.1
0°-90°	3483.7	54.3
90°-120°	1611.7	25.1
90°-150°	2792.9	43.6
90°-180°	2929.0	45.7
0°-180°	6412.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	954	954	954	954	954	
5°	1025	1004	952	907	890	100
15°	1158	1090	935	817	776	329
25°	1248	1137	892	731	683	577
35°	1266	1124	821	649	610	792
45°	1195	1042	726	567	546	922
55°	1038	888	602	479	460	926
65°	784	664	449	365	350	774
75°	492	404	275	221	206	513
85°	114	97	69	4	0	136
90°	19	13	0	0	0	24
95°	498	200	118	6	0	555
105°	1738	722	344	309	370	1806
115°	2192	900	460	408	518	2133
125°	1788	847	458	406	490	1592
135°	1014	587	331	305	352	803
145°	477	335	200	196	217	314
155°	262	213	144	144	153	126
165°	178	159	127	125	125	52
175°	133	127	120	116	116	13
180°	118	118	118	118	118	



TEST NUMBER: P286909

CATALOG NUMBER: DWI-WD-65L840-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1	954.1
2.5°	986.3	988.5	988.5	986.3	984.2	979.9	975.6	969.1	964.8	958.4	954.1
5°	1025.0	1025.0	1025.0	1018.6	1012.1	1003.5	992.8	982.0	971.3	960.5	951.9
7.5°	1059.4	1061.5	1057.2	1050.8	1040.1	1027.2	1012.1	994.9	977.7	958.4	949.8
10°	1093.8	1095.9	1089.5	1083.0	1068.0	1050.8	1029.3	1003.5	979.9	956.2	947.6
12.5°	1126.0	1128.2	1121.7	1113.1	1095.9	1072.3	1044.3	1012.1	982.0	956.2	941.2
15°	1158.2	1158.2	1151.8	1141.0	1117.4	1089.5	1057.2	1018.6	982.0	949.8	934.8
17.5°	1186.2	1184.0	1177.6	1162.5	1136.7	1104.5	1065.8	1020.7	979.9	943.4	926.2
20°	1214.1	1212.0	1203.4	1186.2	1158.2	1119.6	1076.6	1025.0	977.7	936.9	917.6
22.5°	1233.4	1231.3	1222.7	1203.4	1173.3	1130.3	1080.9	1022.9	971.3	928.3	904.7
25°	1248.5	1248.5	1237.7	1218.4	1184.0	1136.7	1083.0	1020.7	964.8	915.4	891.8
27.5°	1259.2	1259.2	1248.5	1227.0	1190.5	1141.0	1080.9	1016.4	954.1	902.5	876.7
30°	1267.8	1265.7	1254.9	1229.2	1192.6	1138.9	1076.6	1007.8	943.4	887.5	859.5
32.5°	1270.0	1267.8	1254.9	1229.2	1188.3	1134.6	1070.1	997.1	928.3	870.3	840.2
35°	1265.7	1263.5	1250.6	1222.7	1179.7	1123.9	1057.2	982.0	911.1	851.0	820.9
37.5°	1257.1	1257.1	1242.0	1214.1	1171.1	1113.1	1044.3	967.0	893.9	829.5	799.4
40°	1242.0	1242.0	1227.0	1196.9	1153.9	1093.8	1025.0	947.6	872.4	805.8	775.7
42.5°	1222.7	1220.6	1203.4	1173.3	1128.2	1070.1	1001.4	921.9	848.8	780.0	752.1
45°	1194.8	1192.6	1177.6	1147.5	1100.2	1042.2	973.4	896.1	823.0	754.3	726.3
47.5°	1164.7	1162.5	1145.3	1115.3	1070.1	1012.1	943.4	868.1	795.1	728.5	696.2
50°	1126.0	1126.0	1108.8	1078.7	1033.6	975.6	906.8	833.8	762.8	696.2	668.3
52.5°	1087.3	1083.0	1065.8	1033.6	990.6	934.8	868.1	797.2	728.5	664.0	636.1
55°	1037.9	1031.5	1016.4	986.3	943.4	887.5	825.2	756.4	691.9	629.6	601.7
57.5°	986.3	979.9	960.5	930.5	889.6	838.1	777.9	713.4	653.3	593.1	567.3
60°	919.7	919.7	900.4	870.3	831.6	782.2	728.5	668.3	610.3	554.4	528.6
62.5°	853.1	855.2	835.9	805.8	769.3	724.2	674.7	618.9	565.2	515.7	489.9
65°	784.3	784.3	765.0	737.1	704.8	664.0	616.7	567.3	517.9	472.8	449.1
67.5°	711.3	711.3	696.2	666.1	636.1	599.5	558.7	515.7	470.6	427.6	406.1
70°	638.2	636.1	623.2	595.2	567.3	535.1	498.5	462.0	421.2	382.5	363.2
72.5°	565.2	563.0	552.3	524.3	500.7	470.6	440.5	406.1	371.8	337.4	320.2
75°	492.1	487.8	477.0	451.3	429.8	404.0	373.9	350.3	320.2	290.1	275.1
77.5°	410.4	408.3	397.5	371.8	354.6	333.1	309.4	287.9	266.5	238.5	227.8
80°	315.9	311.6	305.1	283.7	272.9	255.7	238.5	223.5	206.3	187.0	176.2
82.5°	210.6	208.4	206.3	195.5	184.8	176.2	165.5	154.7	144.0	128.9	124.6
85°	113.9	116.0	113.9	107.4	101.0	96.7	94.6	88.1	83.8	73.1	68.8
87.5°	34.4	36.5	36.5	36.5	36.5	36.5	36.5	32.2	30.1	25.8	21.5
90°	19.3	19.3	19.3	17.2	17.2	12.9	10.7	6.4	4.3	0.0	0.0
92.5°	101.0	105.3	109.6	98.8	77.4	58.0	51.6	53.7	49.4	47.3	40.8
95°	498.5	496.4	479.2	414.7	303.0	199.8	161.2	154.7	139.7	131.1	118.2
97.5°	881.0	874.6	833.8	713.4	554.4	358.9	270.8	245.0	221.3	206.3	189.1
100°	1220.6	1212.0	1149.6	994.9	769.3	513.6	376.1	326.6	294.4	268.6	251.4
102.5°	1504.2	1495.6	1414.0	1216.3	932.6	631.8	464.2	397.5	354.6	322.3	303.0
105°	1738.4	1732.0	1628.8	1390.3	1057.2	722.0	532.9	453.4	404.0	363.2	343.8
107.5°	1946.9	1921.1	1787.9	1523.5	1145.3	790.8	588.8	502.8	447.0	401.8	378.2
110°	2084.4	2058.6	1908.2	1609.5	1201.2	844.5	640.4	545.8	485.6	434.1	408.3



TEST NUMBER: P286909

CATALOG NUMBER: DWI-WD-65L840-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2161.8	2144.6	1977.0	1654.6	1231.3	878.9	679.0	582.3	517.9	464.2	438.4
115°	2191.8	2168.2	1989.8	1652.5	1233.4	900.4	709.1	612.4	545.8	483.5	459.9
117.5°	2159.6	2133.8	1951.2	1611.6	1214.1	906.8	728.5	629.6	558.7	498.5	472.8
120°	2080.1	2050.0	1867.4	1542.9	1177.6	900.4	737.1	638.2	567.3	505.0	477.0
122.5°	1949.0	1921.1	1744.9	1444.0	1121.7	881.0	728.5	633.9	563.0	498.5	472.8
125°	1787.9	1757.8	1598.8	1332.3	1052.9	846.7	709.1	616.7	545.8	485.6	457.7
127.5°	1600.9	1568.7	1439.7	1205.5	971.3	795.1	674.7	586.6	517.9	462.0	436.2
130°	1386.0	1375.3	1265.7	1072.3	887.5	732.8	625.3	543.7	481.3	429.8	406.1
132.5°	1207.7	1175.4	1089.5	936.9	788.6	661.9	567.3	494.2	436.2	391.1	369.6
135°	1014.3	990.6	924.0	805.8	691.9	586.6	505.0	440.5	388.9	348.1	330.9
137.5°	844.5	831.6	775.7	691.9	597.4	515.7	444.8	386.8	341.7	307.3	292.2
140°	696.2	687.6	649.0	582.3	511.4	447.0	386.8	337.4	298.7	268.6	255.7
142.5°	573.7	567.3	539.4	489.9	438.4	386.8	335.2	296.5	260.0	236.4	225.6
145°	477.0	472.8	451.3	416.9	373.9	335.2	294.4	260.0	229.9	208.4	199.8
147.5°	399.7	397.5	382.5	358.9	326.6	292.2	260.0	229.9	204.1	187.0	178.4
150°	341.7	339.5	330.9	309.4	285.8	260.0	232.1	208.4	184.8	169.8	163.3
152.5°	296.5	294.4	287.9	272.9	255.7	234.2	210.6	191.2	171.9	156.9	152.6
155°	262.2	260.0	255.7	245.0	229.9	212.7	193.4	176.2	159.0	148.3	144.0
157.5°	234.2	234.2	229.9	221.3	208.4	195.5	180.5	165.5	150.4	141.8	137.5
160°	212.7	212.7	208.4	199.8	193.4	180.5	167.6	154.7	144.0	137.5	133.2
162.5°	193.4	193.4	189.1	184.8	178.4	167.6	159.0	148.3	139.7	133.2	128.9
165°	178.4	178.4	176.2	171.9	165.5	159.0	150.4	141.8	133.2	128.9	126.8
167.5°	163.3	165.5	163.3	159.0	154.7	148.3	141.8	135.4	131.1	126.8	124.6
170°	152.6	152.6	150.4	148.3	146.1	139.7	137.5	133.2	126.8	124.6	122.5
172.5°	141.8	141.8	139.7	139.7	137.5	135.4	131.1	128.9	124.6	122.5	122.5
175°	133.2	133.2	131.1	131.1	131.1	126.8	126.8	124.6	122.5	122.5	120.3
177.5°	126.8	126.8	126.8	124.6	124.6	124.6	124.6	122.5	120.3	120.3	118.2
180°	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2



TEST NUMBER: P286909

CATALOG NUMBER: DWI-WD-65L840-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	954.1	954.1	954.1	954.1
2.5°	943.4	930.5	924.0	924.0
5°	928.3	906.8	893.9	889.6
7.5°	915.4	883.2	866.0	861.7
10°	898.2	861.7	838.1	829.5
12.5°	881.0	838.1	812.3	801.5
15°	861.7	816.6	786.5	775.7
17.5°	844.5	795.1	762.8	750.0
20°	825.2	773.6	739.2	726.3
22.5°	808.0	752.1	717.7	704.8
25°	788.6	730.6	696.2	683.3
27.5°	769.3	711.3	674.7	664.0
30°	747.8	689.8	655.4	644.7
32.5°	730.6	668.3	638.2	627.5
35°	709.1	649.0	618.9	610.3
37.5°	687.6	629.6	601.7	593.1
40°	664.0	610.3	584.5	578.0
42.5°	642.5	588.8	567.3	563.0
45°	618.9	567.3	550.1	545.8
47.5°	595.2	548.0	530.8	526.5
50°	569.4	526.5	509.3	505.0
52.5°	541.5	502.8	485.6	481.3
55°	515.7	479.2	462.0	459.9
57.5°	485.6	453.4	436.2	434.1
60°	455.6	425.5	410.4	408.3
62.5°	423.3	395.4	380.3	380.3
65°	391.1	365.3	350.3	350.3
67.5°	356.7	333.1	320.2	315.9
70°	322.3	298.7	281.5	279.4
72.5°	287.9	262.2	242.8	242.8
75°	247.1	221.3	206.3	206.3
77.5°	208.4	178.4	165.5	165.5
80°	163.3	131.1	113.9	96.7
82.5°	109.6	77.4	4.3	0.0
85°	55.9	4.3	0.0	0.0
87.5°	6.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	6.4	0.0	0.0	0.0
95°	81.7	6.4	2.1	0.0
97.5°	159.0	122.5	12.9	0.0
100°	223.5	199.8	204.1	204.1
102.5°	268.6	262.2	287.9	303.0
105°	303.0	309.4	348.1	369.6
107.5°	330.9	348.1	397.5	423.3
110°	356.7	376.1	436.2	466.3



TEST NUMBER: P286909

CATALOG NUMBER: DWI-WD-65L840-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	378.2	395.4	464.2	498.5
115°	395.4	408.3	479.2	517.9
117.5°	406.1	416.9	485.6	524.3
120°	410.4	421.2	483.5	522.2
122.5°	406.1	416.9	472.8	509.3
125°	395.4	406.1	455.6	489.9
127.5°	378.2	388.9	434.1	462.0
130°	352.4	363.2	404.0	429.8
132.5°	324.5	335.2	371.8	391.1
135°	292.2	305.1	335.2	352.4
137.5°	260.0	272.9	298.7	313.7
140°	232.1	242.8	264.3	277.2
142.5°	206.3	217.0	234.2	245.0
145°	184.8	195.5	208.4	217.0
147.5°	167.6	178.4	189.1	195.5
150°	154.7	163.3	174.1	176.2
152.5°	146.1	152.6	159.0	163.3
155°	137.5	144.0	150.4	152.6
157.5°	131.1	137.5	139.7	144.0
160°	126.8	131.1	135.4	135.4
162.5°	124.6	126.8	128.9	131.1
165°	122.5	124.6	124.6	124.6
167.5°	120.3	120.3	120.3	120.3
170°	120.3	118.2	118.2	118.2
172.5°	118.2	118.2	116.0	118.2
175°	118.2	116.0	116.0	116.0
177.5°	118.2	118.2	118.2	118.2
180°	118.2	118.2	118.2	118.2

(END OF REPORT)