

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: CORELITE

Report Number: P621701

Luminaire Tested: VLT-FA-125U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621701
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-21)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FA-125U-050D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

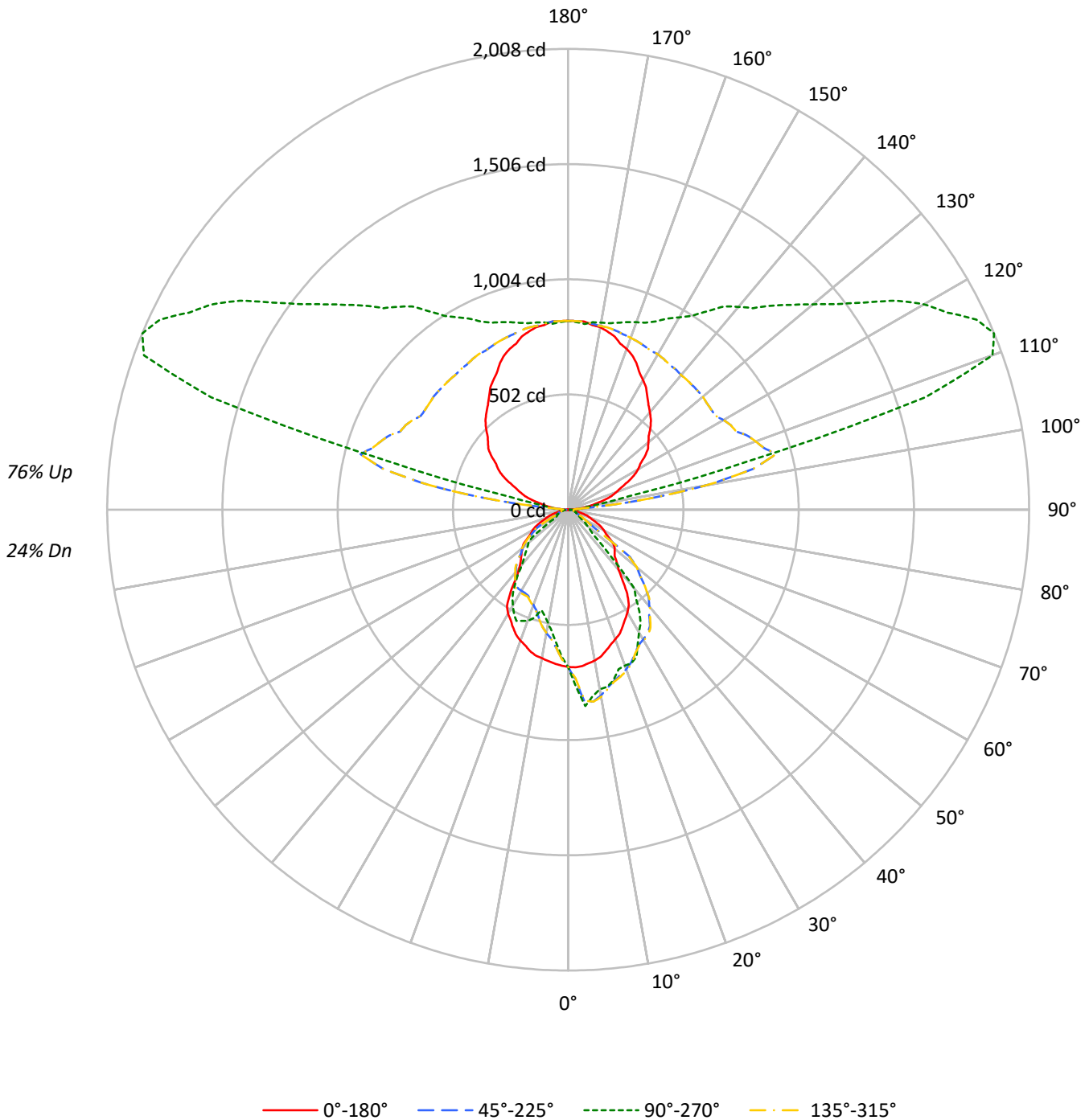
Lumens per Lamp: N/A
Luminaire Lumens: 5834.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (A_{in}): 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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24				24
1	92	88	85	82	82	79	76	73	61	59	57	44	43	42	29	29	28				21	
2	84	78	72	67	75	69	65	61	54	51	48	39	38	36	26	25	24				18	
3	77	68	62	56	69	61	56	51	48	44	41	35	33	31	24	22	21				16	
4	71	61	53	48	63	54	48	43	43	38	35	32	29	27	21	20	18				14	
5	65	54	47	41	58	49	42	37	38	34	30	28	25	23	19	18	16				12	
6	60	48	41	36	53	44	37	32	34	30	26	26	23	20	18	16	14				11	
7	55	44	36	31	49	39	33	28	31	27	23	23	20	18	16	14	13				10	
8	51	40	32	27	46	36	29	25	28	24	21	21	18	16	15	13	12				9	
9	48	36	29	24	42	33	26	22	26	21	18	20	17	14	14	12	11				8	
10	44	33	26	22	40	30	24	20	24	19	16	18	15	13	13	11	10				8	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4917	4917	4917	4917
5°	4926	6186	4850	4218
10°	4860	5785	4790	3662
15°	4728	5696	4743	3361
20°	4583	5520	4636	3939
25°	4443	5580	4493	4227
30°	4286	5106	4343	3991
35°	3926	4732	3828	3578
40°	3199	4212	3088	2912
45°	2907	1563	2936	2653
50°	2957	1190	2903	2521
55°	2790	925	2695	1509
60°	2570	710	2550	840
65°	2367	734	2319	888
70°	2106	774	2048	921
75°	1797	812	1719	948
80°	1355	835	1269	979
85°	922	749	807	922

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	1.1
10°-20°	181.1	3.1
20°-30°	270.9	4.6
30°-40°	308.1	5.3
40°-50°	263.5	4.5
50°-60°	177.7	3.0
60°-70°	91.7	1.6
70°-80°	41.4	0.7
80°-90°	14.2	0.2
90°-100°	101.2	1.7
100°-110°	720.8	12.4
110°-120°	978.6	16.8
120°-130°	796.5	13.7
130°-140°	640.6	11.0
140°-150°	505.0	8.7
150°-160°	369.3	6.3
160°-170°	229.4	3.9
170°-180°	78.2	1.3
0°-30°	518.1	8.9
0°-40°	826.2	14.2
0°-60°	1267.4	21.7
0°-90°	1414.7	24.2
90°-120°	1800.6	30.9
90°-150°	3742.6	64.2
90°-180°	4419.0	75.7
0°-180°	5834.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	685	685	685	685	685	
5°	684	859	673	586	684	65
15°	636	767	638	452	636	179
25°	561	705	567	534	561	258
35°	448	540	437	408	448	274
45°	286	154	289	261	286	227
55°	223	74	215	121	223	199
65°	139	43	137	52	139	138
75°	65	29	62	34	65	69
85°	11	9	10	11	11	14
90°	0	16	0	16	0	2
95°	41	57	41	57	41	46
105°	160	792	160	792	160	169
115°	285	1961	285	1961	285	283
125°	409	1573	409	1573	409	363
135°	507	1257	507	1257	507	390
145°	600	1056	600	1056	600	377
155°	704	906	704	906	704	323
165°	781	843	781	843	781	219
175°	823	812	823	812	823	78
180°	823	823	823	823	823	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2
2.5°	687.4	710.8	740.4	760.6	769.4	760.6	735.3	710.7	679.6	670.3	648.4
5°	683.8	756.0	843.4	853.9	858.7	853.9	835.7	751.7	673.3	639.9	603.6
7.5°	675.4	801.8	842.4	818.8	819.0	823.3	843.7	797.8	664.5	612.0	567.5
10°	667.0	827.2	821.8	787.8	793.9	791.2	828.0	822.2	657.3	596.6	545.8
12.5°	655.9	835.1	794.4	783.3	790.0	786.2	798.5	830.8	651.1	585.6	520.7
15°	636.4	823.8	771.6	766.7	766.7	770.1	775.1	827.2	638.5	565.5	490.0
17.5°	616.3	801.1	755.7	731.5	728.9	733.4	761.4	806.9	620.5	543.3	460.3
20°	600.1	785.5	739.5	711.2	722.8	712.6	745.8	789.7	607.1	529.4	441.9
22.5°	585.6	766.1	718.9	706.8	722.2	707.1	724.6	770.3	591.5	513.8	428.0
25°	561.1	733.5	687.9	699.2	704.7	699.2	690.7	736.4	567.4	493.8	413.3
27.5°	536.7	699.2	664.8	672.4	655.7	668.6	668.6	699.3	542.5	470.4	408.9
30°	517.2	675.3	653.1	642.1	616.2	636.6	658.0	675.4	524.1	455.3	407.7
32.5°	491.5	653.5	641.4	603.2	586.6	600.5	646.8	653.0	495.7	441.6	406.6
35°	448.2	622.6	620.3	557.2	540.2	553.1	625.2	621.0	437.0	420.0	398.0
37.5°	390.0	595.2	580.0	510.7	483.6	507.3	584.6	592.2	367.6	400.2	377.8
40°	341.5	576.7	549.9	476.1	449.6	472.7	553.4	575.0	329.7	386.2	355.5
42.5°	314.2	560.2	518.2	439.6	275.0	434.0	521.6	558.2	306.3	368.3	336.0
45°	286.5	530.5	471.9	243.3	154.0	231.7	472.6	523.0	289.3	341.1	306.0
47.5°	274.3	493.8	423.5	146.6	130.1	142.3	423.1	485.8	274.5	313.7	277.4
50°	264.9	470.7	388.9	129.1	106.6	124.4	389.6	463.1	260.0	295.4	257.9
52.5°	249.2	443.1	339.3	107.0	92.1	104.4	331.1	434.4	244.9	275.5	233.4
55°	223.0	390.0	141.5	84.1	73.9	80.7	134.5	376.9	215.4	244.0	204.9
57.5°	195.3	332.0	99.3	65.5	57.3	64.8	98.6	318.7	191.7	206.7	178.7
60°	179.1	292.9	80.9	54.9	49.5	54.3	80.2	281.3	177.7	181.8	154.7
62.5°	163.0	253.3	66.9	48.3	46.7	47.7	66.8	240.6	160.5	160.7	109.0
65°	139.4	191.9	49.5	43.9	43.2	43.2	48.1	185.0	136.6	132.5	62.7
67.5°	115.4	137.8	39.7	40.4	39.7	39.7	39.0	133.9	112.6	105.7	47.4
70°	100.4	105.8	36.9	37.6	36.9	36.9	36.2	103.0	97.6	81.9	44.6
72.5°	85.9	72.2	34.2	34.3	34.2	34.2	33.5	67.8	83.1	57.6	40.7
75°	64.8	36.2	29.3	29.3	29.3	29.3	28.6	34.8	62.0	37.5	34.9
77.5°	45.0	23.9	24.3	24.1	24.1	23.6	23.6	23.7	42.4	25.9	28.2
80°	32.8	19.8	20.9	20.2	20.2	20.2	20.2	19.1	30.7	21.8	23.7
82.5°	23.3	15.8	17.0	16.3	16.3	16.3	16.3	15.6	21.2	17.8	19.2
85°	11.2	10.5	11.2	9.7	9.1	9.7	10.5	10.4	9.8	11.8	12.5
87.5°	3.3	6.0	6.5	6.5	6.5	6.5	6.0	5.4	2.8	6.5	7.1
90°	0.0	5.1	10.3	15.5	15.5	15.5	10.3	5.1	0.0	5.1	10.3
92.5°	12.4	17.5	22.8	32.2	36.2	32.2	22.8	17.5	12.4	17.5	22.8
95°	41.4	76.8	41.4	46.8	56.9	46.8	41.4	76.8	41.4	76.8	41.4
97.5°	73.5	147.3	304.3	89.8	77.6	89.8	304.3	147.3	73.5	147.3	304.3
100°	98.3	184.3	610.6	179.7	119.0	179.7	610.6	184.3	98.3	184.3	610.6
102.5°	123.2	213.2	825.8	474.3	259.8	474.3	825.8	213.2	123.2	213.2	825.8
105°	160.4	246.4	936.6	1196.4	791.7	1196.4	936.6	246.4	160.4	246.4	936.6
107.5°	197.7	262.4	894.1	1741.3	1631.0	1741.3	894.1	262.4	197.7	262.4	894.1
110°	222.5	283.2	869.3	1829.7	1966.3	1829.7	869.3	283.2	222.5	283.2	869.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	247.3	308.0	844.5	1778.0	2007.7	1778.0	844.5	308.0	247.3	308.0	844.5
115°	284.6	345.3	807.2	1677.8	1961.1	1677.8	807.2	345.3	284.6	345.3	807.2
117.5°	322.9	382.6	797.9	1569.3	1860.7	1569.3	797.9	382.6	322.9	382.6	797.9
120°	351.9	407.5	781.3	1486.8	1790.3	1486.8	781.3	407.5	351.9	407.5	781.3
122.5°	372.6	432.3	760.6	1415.9	1695.1	1415.9	760.6	432.3	372.6	432.3	760.6
125°	408.8	464.4	760.6	1330.2	1573.0	1330.2	760.6	464.4	408.8	464.4	760.6
127.5°	438.8	495.5	761.7	1230.8	1470.6	1230.8	761.7	495.5	438.8	495.5	761.7
130°	455.3	516.1	765.8	1164.2	1391.9	1164.2	765.8	516.1	455.3	516.1	765.8
132.5°	476.0	536.8	765.8	1134.3	1321.5	1134.3	765.8	536.8	476.0	536.8	765.8
135°	507.1	562.7	765.8	1095.5	1257.4	1095.5	765.8	562.7	507.1	562.7	765.8
137.5°	533.0	592.7	765.8	1052.5	1191.1	1052.5	765.8	592.7	533.0	592.7	765.8
140°	553.7	609.3	765.8	1027.4	1153.9	1027.4	765.8	609.3	553.7	609.3	765.8
142.5°	574.4	626.0	770.0	998.2	1116.6	998.2	770.0	626.0	574.4	626.0	770.0
145°	600.2	650.8	771.0	954.4	1055.6	954.4	771.0	650.8	600.2	650.8	771.0
147.5°	631.3	675.8	777.2	922.8	1000.7	922.8	777.2	675.8	631.3	675.8	777.2
150°	652.0	692.5	781.3	901.8	967.6	901.8	781.3	692.5	652.0	692.5	781.3
152.5°	672.7	709.1	781.3	885.0	938.6	885.0	781.3	709.1	672.7	709.1	781.3
155°	703.7	729.0	786.5	865.0	905.5	865.0	786.5	729.0	703.7	729.0	786.5
157.5°	728.6	752.8	792.7	852.4	881.7	852.4	792.7	752.8	728.6	752.8	792.7
160°	745.1	765.4	796.9	844.0	869.3	844.0	796.9	765.4	745.1	765.4	796.9
162.5°	757.5	777.8	801.0	839.7	856.9	839.7	801.0	777.8	757.5	777.8	801.0
165°	781.3	791.5	807.2	828.3	843.4	828.3	807.2	791.5	781.3	791.5	807.2
167.5°	794.8	803.9	812.4	822.9	832.0	822.9	812.4	803.9	794.8	803.9	812.4
170°	807.2	812.3	812.4	822.8	827.9	822.8	812.4	812.3	807.2	812.3	812.4
172.5°	811.3	820.5	816.5	818.7	823.8	818.7	816.5	820.5	811.3	820.5	816.5
175°	822.7	827.8	822.7	817.4	812.4	817.4	822.7	827.8	822.7	827.8	822.7
177.5°	822.7	826.8	822.7	822.6	818.6	822.6	822.7	826.8	822.7	826.8	822.7
180°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	685.2	685.2	685.2	685.2	685.2	685.2
2.5°	640.5	640.0	641.1	650.6	669.9	687.4
5°	583.4	585.5	587.5	603.6	637.4	683.8
7.5°	539.6	536.6	541.2	567.4	608.9	675.4
10°	509.4	502.5	509.4	545.1	593.4	667.0
12.5°	480.9	472.4	483.1	522.2	580.6	655.9
15°	444.2	452.4	447.6	491.4	561.4	636.4
17.5°	452.9	494.0	461.6	464.6	542.3	616.3
20°	473.5	515.8	487.2	446.8	529.9	600.1
22.5°	492.3	524.1	498.3	431.7	517.6	585.6
25°	506.6	533.9	505.3	418.2	499.8	561.1
27.5°	507.4	511.2	507.6	417.1	477.7	536.7
30°	498.0	481.6	496.6	418.2	462.0	517.2
32.5°	471.2	452.6	465.4	416.0	446.1	491.5
35°	433.0	408.4	426.2	404.3	421.6	448.2
37.5°	392.7	361.6	386.1	381.1	400.7	390.0
40°	365.4	310.9	359.9	358.3	389.2	341.5
42.5°	330.4	284.1	325.5	339.9	376.6	314.2
45°	266.8	261.4	264.1	308.8	349.9	286.5
47.5°	244.0	240.3	242.6	280.5	319.6	274.3
50°	230.6	225.8	229.2	262.1	300.3	264.9
52.5°	212.0	199.1	210.7	237.0	280.3	249.2
55°	159.4	120.6	158.7	208.4	250.3	223.0
57.5°	93.6	69.7	91.5	181.4	212.1	195.3
60°	63.3	58.5	64.0	159.6	186.6	179.1
62.5°	57.8	56.3	58.0	111.1	163.9	163.0
65°	53.0	52.3	53.0	64.1	135.3	139.4
67.5°	47.9	47.3	48.5	49.2	106.8	115.4
70°	44.6	43.9	44.6	45.3	82.0	100.4
72.5°	40.7	40.0	40.7	41.4	57.7	85.9
75°	34.8	34.2	34.8	35.5	38.2	64.8
77.5°	28.2	28.2	28.8	28.9	26.8	45.0
80°	23.7	23.7	24.4	24.4	23.2	32.8
82.5°	19.2	18.7	19.9	20.5	19.2	23.3
85°	11.8	11.2	12.5	13.2	12.5	11.2
87.5°	7.6	7.0	8.1	8.2	7.1	3.3
90°	15.5	15.5	15.5	10.3	5.1	0.0
92.5°	32.2	36.2	32.2	22.8	17.5	12.4
95°	46.8	56.9	46.8	41.4	76.8	41.4
97.5°	89.8	77.6	89.8	304.3	147.3	73.5
100°	179.7	119.0	179.7	610.6	184.3	98.3
102.5°	474.3	259.8	474.3	825.8	213.2	123.2
105°	1196.4	791.7	1196.4	936.6	246.4	160.4
107.5°	1741.3	1631.0	1741.3	894.1	262.4	197.7
110°	1829.7	1966.3	1829.7	869.3	283.2	222.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1778.0	2007.7	1778.0	844.5	308.0	247.3
115°	1677.8	1961.1	1677.8	807.2	345.3	284.6
117.5°	1569.3	1860.7	1569.3	797.9	382.6	322.9
120°	1486.8	1790.3	1486.8	781.3	407.5	351.9
122.5°	1415.9	1695.1	1415.9	760.6	432.3	372.6
125°	1330.2	1573.0	1330.2	760.6	464.4	408.8
127.5°	1230.8	1470.6	1230.8	761.7	495.5	438.8
130°	1164.2	1391.9	1164.2	765.8	516.1	455.3
132.5°	1134.3	1321.5	1134.3	765.8	536.8	476.0
135°	1095.5	1257.4	1095.5	765.8	562.7	507.1
137.5°	1052.5	1191.1	1052.5	765.8	592.7	533.0
140°	1027.4	1153.9	1027.4	765.8	609.3	553.7
142.5°	998.2	1116.6	998.2	770.0	626.0	574.4
145°	954.4	1055.6	954.4	771.0	650.8	600.2
147.5°	922.8	1000.7	922.8	777.2	675.8	631.3
150°	901.8	967.6	901.8	781.3	692.5	652.0
152.5°	885.0	938.6	885.0	781.3	709.1	672.7
155°	865.0	905.5	865.0	786.5	729.0	703.7
157.5°	852.4	881.7	852.4	792.7	752.8	728.6
160°	844.0	869.3	844.0	796.9	765.4	745.1
162.5°	839.7	856.9	839.7	801.0	777.8	757.5
165°	828.3	843.4	828.3	807.2	791.5	781.3
167.5°	822.9	832.0	822.9	812.4	803.9	794.8
170°	822.8	827.9	822.8	812.4	812.3	807.2
172.5°	818.7	823.8	818.7	816.5	820.5	811.3
175°	817.4	812.4	817.4	822.7	827.8	822.7
177.5°	822.6	818.6	822.6	822.7	826.8	822.7
180°	822.7	822.7	822.7	822.7	822.7	822.7

(END OF REPORT)