

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: P621629

Luminaire Tested: VLT-FA-075U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621629
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-075U-050D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.4 lumens
Efficiency: N/A
Efficacy: 115.7 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

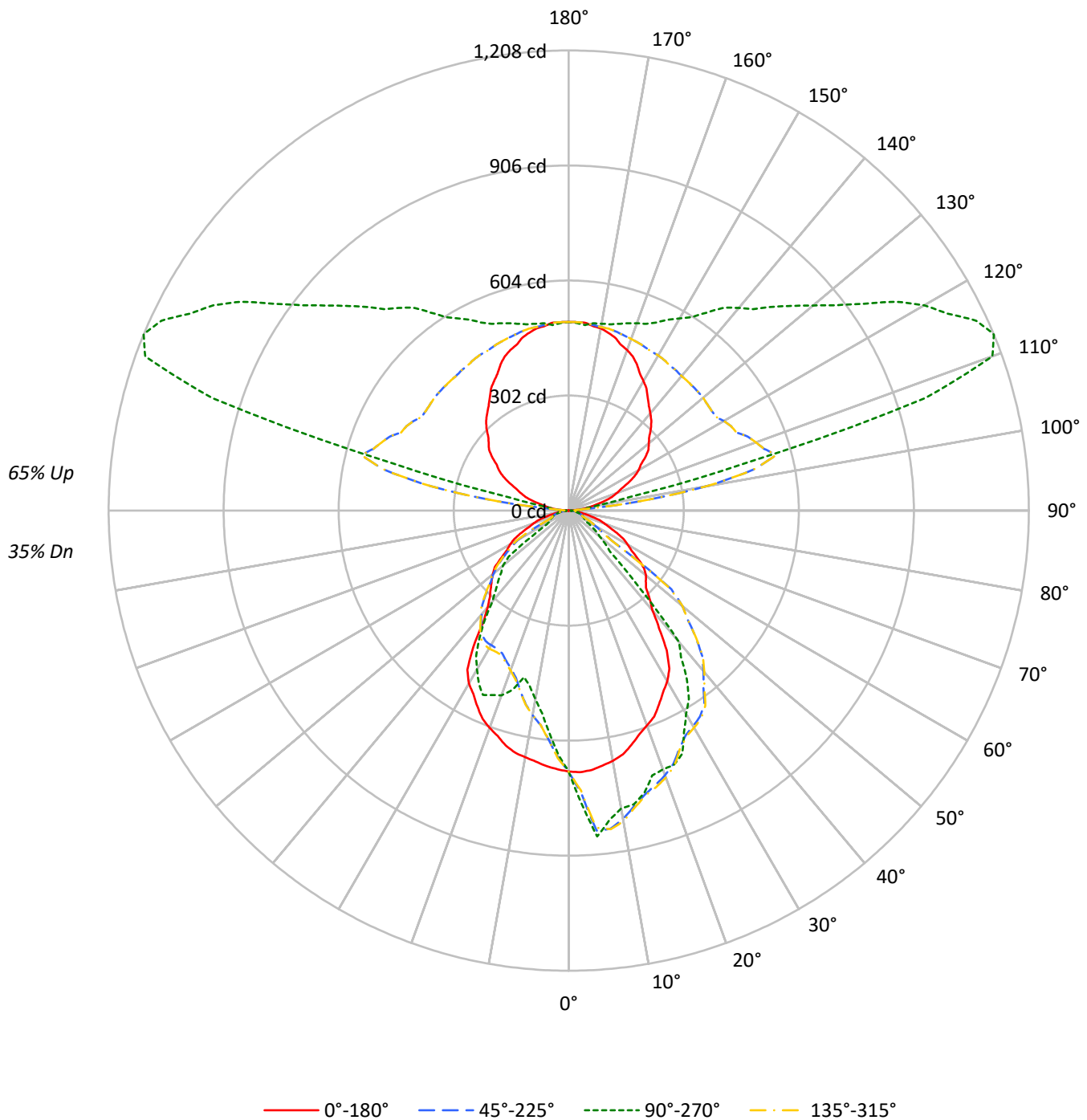
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P621629

CATALOG NUMBER: VLT-FA-075U-050D-935-UNV-STD-W-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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75		58	58	58		42
1	95	91	87	84	86	82	79	77	66	64	62		52	50	49		38
2	87	80	74	70	78	73	68	64	59	55	53		46	44	42		34
3	80	71	64	59	72	64	59	54	52	48	45		41	38	36		31
4	73	63	56	50	66	57	51	46	47	42	39		37	34	31		28
5	67	56	49	43	61	51	45	40	42	37	34		33	30	27		25
6	62	51	43	37	56	46	40	35	38	33	29		30	27	24		23
7	57	46	38	33	52	42	35	31	34	30	26		28	24	22		21
8	53	41	34	29	48	38	32	27	31	27	23		25	22	19		20
9	49	38	31	26	45	35	28	24	29	24	21		23	20	17		18
10	46	35	28	23	42	32	26	22	27	22	19		22	18	16		17

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

TEST NUMBER: P621629

CATALOG NUMBER: VLT-FA-075U-050D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	1.6
10°-20°	181.1	4.4
20°-30°	270.9	6.7
30°-40°	308.1	7.6
40°-50°	263.5	6.5
50°-60°	177.7	4.4
60°-70°	91.7	2.3
70°-80°	41.4	1.0
80°-90°	13.4	0.3
90°-100°	60.9	1.5
100°-110°	433.8	10.6
110°-120°	588.9	14.5
120°-130°	479.3	11.8
130°-140°	385.5	9.5
140°-150°	303.9	7.5
150°-160°	222.2	5.5
160°-170°	138.0	3.4
170°-180°	47.1	1.2
0°-30°	518.1	12.7
0°-40°	826.2	20.3
0°-60°	1267.4	31.1
0°-90°	1413.9	34.7
90°-120°	1083.5	26.6
90°-150°	2252.2	55.3
90°-180°	2659.0	65.3
0°-180°	4073.4	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	9	0	9	0	1
95°	25	34	25	34	25	28
105°	96	476	96	476	96	102
115°	171	1180	171	1180	171	170
125°	246	947	246	947	246	219
135°	305	757	305	757	305	235
145°	361	635	361	635	361	227
155°	424	545	424	545	424	194
165°	470	508	470	508	470	132
175°	495	489	495	489	495	47
180°	495	495	495	495	495	

TEST NUMBER: P621629

CATALOG NUMBER: VLT-FA-075U-050D-935-UNV-STD-W-4

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	5.6	5.7	5.2	5.2	5.2	5.1	5.0	2.8	6.1	6.3
90°	0.0	3.0	6.2	9.3	9.3	9.3	6.2	3.0	0.0	3.0	6.2
92.5°	7.5	10.5	13.7	19.4	21.8	19.4	13.7	10.5	7.5	10.5	13.7
95°	24.9	46.2	24.9	28.2	34.3	28.2	24.9	46.2	24.9	46.2	24.9
97.5°	44.2	88.7	183.1	54.0	46.7	54.0	183.1	88.7	44.2	88.7	183.1
100°	59.2	110.9	367.4	108.2	71.6	108.2	367.4	110.9	59.2	110.9	367.4
102.5°	74.1	128.3	497.0	285.4	156.3	285.4	497.0	128.3	74.1	128.3	497.0
105°	96.5	148.3	563.6	720.0	476.4	720.0	563.6	148.3	96.5	148.3	563.6
107.5°	118.9	157.9	538.1	1047.8	981.5	1047.8	538.1	157.9	118.9	157.9	538.1
110°	133.9	170.4	523.1	1101.0	1183.2	1101.0	523.1	170.4	133.9	170.4	523.1

TEST NUMBER: P621629

CATALOG NUMBER: VLT-FA-075U-050D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	148.8	185.4	508.2	1069.9	1208.1	1069.9	508.2	185.4	148.8	185.4	508.2
115°	171.3	207.8	485.8	1009.6	1180.1	1009.6	485.8	207.8	171.3	207.8	485.8
117.5°	194.3	230.2	480.1	944.3	1119.7	944.3	480.1	230.2	194.3	230.2	480.1
120°	211.7	245.2	470.2	894.7	1077.4	894.7	470.2	245.2	211.7	245.2	470.2
122.5°	224.2	260.1	457.7	852.0	1020.1	852.0	457.7	260.1	224.2	260.1	457.7
125°	246.0	279.5	457.7	800.5	946.6	800.5	457.7	279.5	246.0	279.5	457.7
127.5°	264.0	298.1	458.3	740.6	884.9	740.6	458.3	298.1	264.0	298.1	458.3
130°	274.0	310.5	460.8	700.6	837.6	700.6	460.8	310.5	274.0	310.5	460.8
132.5°	286.5	323.0	460.8	682.6	795.3	682.6	460.8	323.0	286.5	323.0	460.8
135°	305.2	338.6	460.8	659.2	756.7	659.2	460.8	338.6	305.2	338.6	460.8
137.5°	320.7	356.6	460.8	633.4	716.8	633.4	460.8	356.6	320.7	356.6	460.8
140°	333.2	366.7	460.8	618.3	694.4	618.3	460.8	366.7	333.2	366.7	460.8
142.5°	345.6	376.7	463.3	600.7	672.0	600.7	463.3	376.7	345.6	376.7	463.3
145°	361.2	391.6	464.0	574.3	635.2	574.3	464.0	391.6	361.2	391.6	464.0
147.5°	379.9	406.7	467.7	555.3	602.2	555.3	467.7	406.7	379.9	406.7	467.7
150°	392.3	416.7	470.2	542.7	582.3	542.7	470.2	416.7	392.3	416.7	470.2
152.5°	404.8	426.7	470.2	532.6	564.8	532.6	470.2	426.7	404.8	426.7	470.2
155°	423.5	438.7	473.3	520.6	544.9	520.6	473.3	438.7	423.5	438.7	473.3
157.5°	438.4	453.0	477.0	512.9	530.6	512.9	477.0	453.0	438.4	453.0	477.0
160°	448.4	460.6	479.5	507.9	523.1	507.9	479.5	460.6	448.4	460.6	479.5
162.5°	455.9	468.0	482.0	505.3	515.6	505.3	482.0	468.0	455.9	468.0	482.0
165°	470.2	476.3	485.8	498.4	507.5	498.4	485.8	476.3	470.2	476.3	485.8
167.5°	478.3	483.8	488.9	495.2	500.7	495.2	488.9	483.8	478.3	483.8	488.9
170°	485.8	488.8	488.9	495.2	498.2	495.2	488.9	488.8	485.8	488.8	488.9
172.5°	488.2	493.7	491.4	492.7	495.7	492.7	491.4	493.7	488.2	493.7	491.4
175°	495.1	498.1	495.1	491.9	488.9	491.9	495.1	498.1	495.1	498.1	495.1
177.5°	495.1	497.5	495.1	495.0	492.6	495.0	495.1	497.5	495.1	497.5	495.1
180°	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1	495.1



TEST NUMBER: P621629

CATALOG NUMBER: VLT-FA-075U-050D-935-UNV-STD-W-4

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°	6.3	5.8	6.9	7.4	6.7	3.3
90°	9.3	9.3	9.3	6.2	3.0	0.0
92.5°	19.4	21.8	19.4	13.7	10.5	7.5
95°	28.2	34.3	28.2	24.9	46.2	24.9
97.5°	54.0	46.7	54.0	183.1	88.7	44.2
100°	108.2	71.6	108.2	367.4	110.9	59.2
102.5°	285.4	156.3	285.4	497.0	128.3	74.1
105°	720.0	476.4	720.0	563.6	148.3	96.5
107.5°	1047.8	981.5	1047.8	538.1	157.9	118.9
110°	1101.0	1183.2	1101.0	523.1	170.4	133.9



TEST NUMBER: P621629

CATALOG NUMBER: VLT-FA-075U-050D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1069.9	1208.1	1069.9	508.2	185.4	148.8
115°	1009.6	1180.1	1009.6	485.8	207.8	171.3
117.5°	944.3	1119.7	944.3	480.1	230.2	194.3
120°	894.7	1077.4	894.7	470.2	245.2	211.7
122.5°	852.0	1020.1	852.0	457.7	260.1	224.2
125°	800.5	946.6	800.5	457.7	279.5	246.0
127.5°	740.6	884.9	740.6	458.3	298.1	264.0
130°	700.6	837.6	700.6	460.8	310.5	274.0
132.5°	682.6	795.3	682.6	460.8	323.0	286.5
135°	659.2	756.7	659.2	460.8	338.6	305.2
137.5°	633.4	716.8	633.4	460.8	356.6	320.7
140°	618.3	694.4	618.3	460.8	366.7	333.2
142.5°	600.7	672.0	600.7	463.3	376.7	345.6
145°	574.3	635.2	574.3	464.0	391.6	361.2
147.5°	555.3	602.2	555.3	467.7	406.7	379.9
150°	542.7	582.3	542.7	470.2	416.7	392.3
152.5°	532.6	564.8	532.6	470.2	426.7	404.8
155°	520.6	544.9	520.6	473.3	438.7	423.5
157.5°	512.9	530.6	512.9	477.0	453.0	438.4
160°	507.9	523.1	507.9	479.5	460.6	448.4
162.5°	505.3	515.6	505.3	482.0	468.0	455.9
165°	498.4	507.5	498.4	485.8	476.3	470.2
167.5°	495.2	500.7	495.2	488.9	483.8	478.3
170°	495.2	498.2	495.2	488.9	488.8	485.8
172.5°	492.7	495.7	492.7	491.4	493.7	488.2
175°	491.9	488.9	491.9	495.1	498.1	495.1
177.5°	495.0	492.6	495.0	495.1	497.5	495.1
180°	495.1	495.1	495.1	495.1	495.1	495.1

(END OF REPORT)