

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: P621580

Luminaire Tested: VLT-FA-025U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621580
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-025U-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

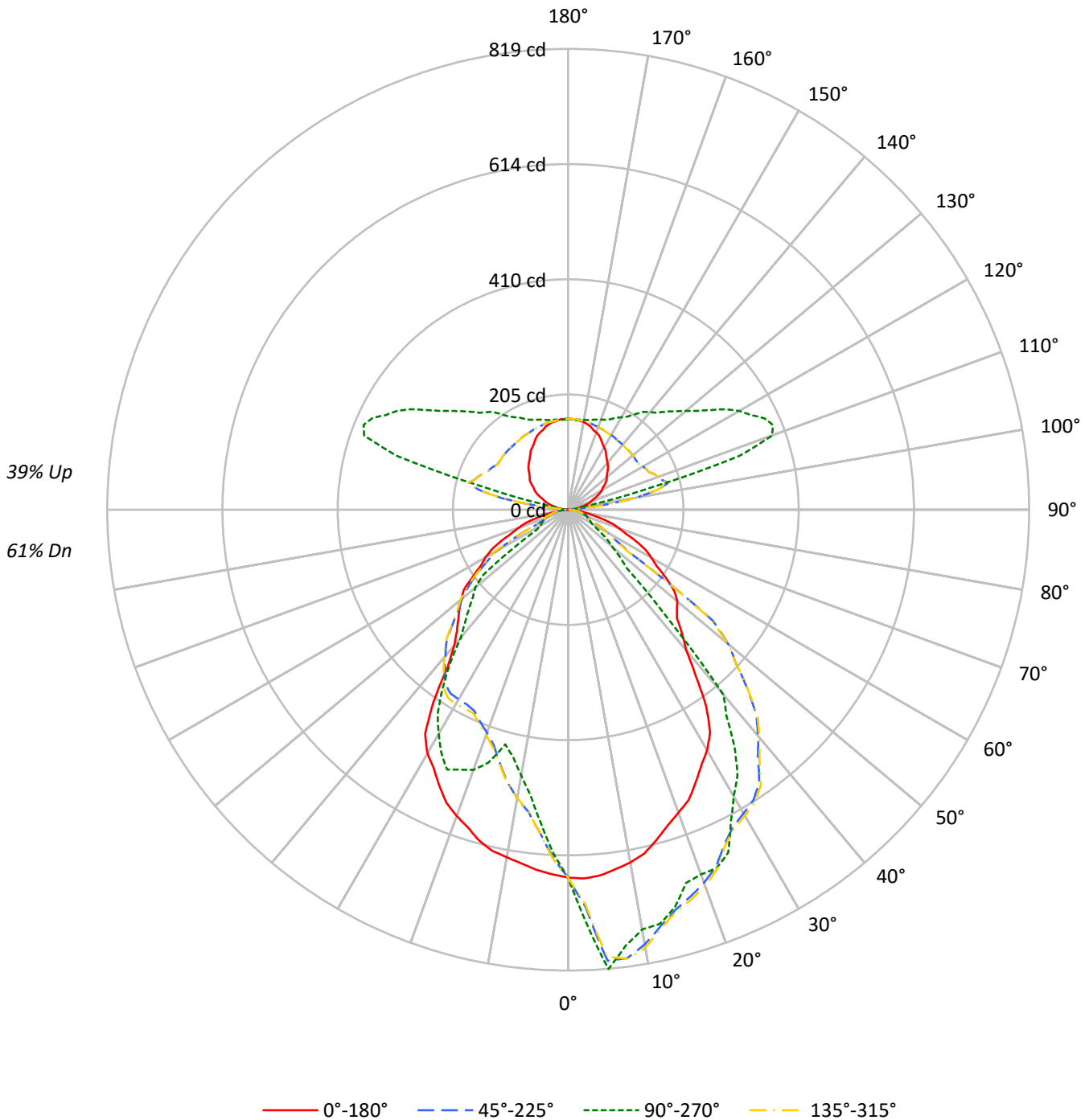
Lumens per Lamp: N/A
Luminaire Lumens: 2214.9 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.7
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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	94	90	95	91	88	85	80	78	76	70	68	66	60	59	58	53
2	93	86	80	76	87	81	76	72	71	68	64	62	60	57	54	52	50	46
3	86	77	70	64	80	72	66	61	64	59	55	56	52	50	49	46	44	40
4	79	68	61	55	74	65	58	53	57	52	48	51	47	43	44	41	39	36
5	73	62	54	48	68	58	51	46	52	46	42	46	42	38	40	37	34	31
6	67	56	48	42	63	53	46	40	47	41	37	42	37	34	37	33	31	28
7	62	51	43	37	58	48	41	36	43	37	33	38	34	30	34	30	28	25
8	58	46	39	33	54	44	37	32	39	34	30	35	31	27	31	28	25	23
9	54	42	35	30	51	40	34	29	36	31	27	33	28	25	29	25	23	21
10	51	39	32	27	48	37	31	26	34	28	24	30	26	23	27	23	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4692	4692	4692	4692
5°	4700	5902	4628	4025
10°	4638	5520	4570	3494
15°	4511	5435	4526	3206
20°	4373	5267	4424	3759
25°	4239	5324	4287	4034
30°	4089	4871	4144	3808
35°	3747	4515	3653	3414
40°	3053	4019	2947	2778
45°	2775	1492	2801	2531
50°	2821	1136	2770	2406
55°	2662	882	2571	1440
60°	2453	677	2434	802
65°	2258	700	2214	847
70°	2010	739	1953	879
75°	1716	774	1641	904
80°	1293	798	1211	934
85°	873	708	766	873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	2.8
10°-20°	172.8	7.8
20°-30°	258.5	11.7
30°-40°	294.0	13.3
40°-50°	251.4	11.4
50°-60°	169.6	7.7
60°-70°	87.5	4.0
70°-80°	39.5	1.8
80°-90°	12.1	0.5
90°-100°	19.8	0.9
100°-110°	141.3	6.4
110°-120°	191.9	8.7
120°-130°	156.1	7.0
130°-140°	125.6	5.7
140°-150°	99.0	4.5
150°-160°	72.4	3.3
160°-170°	45.0	2.0
170°-180°	15.3	0.7
0°-30°	494.3	22.3
0°-40°	788.3	35.6
0°-60°	1209.3	54.6
0°-90°	1348.5	60.9
90°-120°	353.0	15.9
90°-150°	733.8	33.1
90°-180°	866.0	39.1
0°-180°	2214.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	654	654	654	654	654	
5°	652	819	642	559	652	62
15°	607	732	609	432	607	171
25°	535	672	541	510	535	246
35°	428	515	417	390	428	261
45°	273	147	276	249	273	217
55°	213	70	206	115	213	190
65°	133	41	130	50	133	131
75°	62	28	59	33	62	66
85°	11	9	9	11	11	14
90°	0	3	0	3	0	1
95°	8	11	8	11	8	9
105°	31	155	31	155	31	33
115°	56	384	56	384	56	55
125°	80	308	80	308	80	71
135°	99	246	99	246	99	76
145°	118	207	118	207	118	74
155°	138	178	138	178	138	63
165°	153	165	153	165	153	43
175°	161	159	161	159	161	15
180°	161	161	161	161	161	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8
2.5°	655.9	678.3	706.5	725.8	734.1	725.8	701.7	678.1	648.5	639.6	618.7
5°	652.5	721.4	804.8	814.8	819.4	814.8	797.4	717.3	642.5	610.6	576.0
7.5°	644.5	765.0	803.8	781.3	781.5	785.6	805.0	761.3	634.1	584.0	541.5
10°	636.5	789.3	784.1	751.7	757.5	754.9	790.1	784.6	627.2	569.3	520.8
12.5°	625.8	796.9	758.1	747.4	753.8	750.2	761.9	792.7	621.3	558.8	496.8
15°	607.2	786.1	736.3	731.6	731.6	734.8	739.6	789.4	609.2	539.6	467.6
17.5°	588.1	764.4	721.1	698.0	695.5	699.8	726.5	770.0	592.1	518.4	439.2
20°	572.6	749.5	705.7	678.6	689.7	679.9	711.6	753.6	579.3	505.2	421.7
22.5°	558.8	731.0	686.0	674.5	689.2	674.7	691.4	735.0	564.4	490.3	408.4
25°	535.4	699.9	656.4	667.2	672.4	667.2	659.1	702.7	541.4	471.1	394.4
27.5°	512.1	667.2	634.4	641.6	625.7	637.9	638.0	667.3	517.7	448.9	390.1
30°	493.5	644.4	623.2	612.6	587.9	607.4	627.8	644.5	500.1	434.5	389.1
32.5°	469.0	623.5	612.0	575.6	559.7	573.0	617.2	623.1	473.0	421.4	388.0
35°	427.7	594.1	591.9	531.7	515.4	527.8	596.6	592.6	417.0	400.8	379.8
37.5°	372.2	567.9	553.5	487.3	461.4	484.1	557.9	565.1	350.8	381.9	360.5
40°	325.9	550.2	524.8	454.3	429.0	451.1	528.1	548.7	314.6	368.6	339.2
42.5°	299.8	534.6	494.4	419.4	262.4	414.1	497.8	532.6	292.2	351.4	320.6
45°	273.4	506.2	450.3	232.2	147.0	221.1	450.9	499.1	276.0	325.4	292.0
47.5°	261.8	471.2	404.1	139.8	124.1	135.8	403.7	463.5	261.9	299.4	264.7
50°	252.7	449.1	371.1	123.2	101.8	118.7	371.8	441.9	248.1	281.9	246.1
52.5°	237.8	422.8	323.8	102.1	87.9	99.6	315.9	414.5	233.7	262.8	222.7
55°	212.8	372.2	135.0	80.3	70.5	77.0	128.4	359.6	205.5	232.8	195.5
57.5°	186.4	316.8	94.7	62.5	54.7	61.8	94.0	304.1	182.9	197.2	170.5
60°	170.9	279.5	77.2	52.4	47.2	51.8	76.5	268.4	169.6	173.5	147.6
62.5°	155.5	241.7	63.8	46.1	44.6	45.5	63.7	229.6	153.1	153.4	104.0
65°	133.0	183.1	47.2	41.9	41.2	41.2	45.9	176.5	130.4	126.5	59.9
67.5°	110.1	131.5	37.9	38.6	37.9	37.9	37.2	127.8	107.5	100.8	45.2
70°	95.8	101.0	35.2	35.9	35.2	35.2	34.6	98.3	93.1	78.2	42.6
72.5°	81.9	68.9	32.6	32.7	32.6	32.6	31.9	64.7	79.3	55.0	38.8
75°	61.9	34.5	27.9	27.9	27.9	27.9	27.3	33.2	59.2	35.8	33.3
77.5°	43.0	22.8	23.1	23.0	23.0	22.5	22.5	22.6	40.4	24.7	26.9
80°	31.3	18.9	20.0	19.3	19.3	19.3	19.3	18.2	29.3	20.8	22.6
82.5°	22.2	15.1	16.2	15.6	15.6	15.6	15.6	14.9	20.2	17.0	18.4
85°	10.6	10.0	10.6	9.3	8.6	9.3	10.0	10.0	9.3	11.3	12.0
87.5°	3.2	5.0	4.7	3.8	3.8	3.8	4.1	4.4	2.7	5.5	5.2
90°	0.0	1.0	2.0	3.0	3.0	3.0	2.0	1.0	0.0	1.0	2.0
92.5°	2.4	3.4	4.5	6.3	7.1	6.3	4.5	3.4	2.4	3.4	4.5
95°	8.1	15.1	8.1	9.2	11.2	9.2	8.1	15.1	8.1	15.1	8.1
97.5°	14.4	28.9	59.7	17.6	15.2	17.6	59.7	28.9	14.4	28.9	59.7
100°	19.3	36.1	119.7	35.2	23.3	35.2	119.7	36.1	19.3	36.1	119.7
102.5°	24.1	41.8	161.9	93.0	50.9	93.0	161.9	41.8	24.1	41.8	161.9
105°	31.4	48.3	183.6	234.6	155.2	234.6	183.6	48.3	31.4	48.3	183.6
107.5°	38.8	51.5	175.3	341.4	319.8	341.4	175.3	51.5	38.8	51.5	175.3
110°	43.6	55.5	170.4	358.7	385.5	358.7	170.4	55.5	43.6	55.5	170.4



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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°	48.5	60.4	165.6	348.6	393.6	348.6	165.6	60.4	48.5	60.4	165.6
115°	55.8	67.7	158.3	328.9	384.5	328.9	158.3	67.7	55.8	67.7	158.3
117.5°	63.3	75.0	156.4	307.7	364.8	307.7	156.4	75.0	63.3	75.0	156.4
120°	69.0	79.9	153.2	291.5	351.0	291.5	153.2	79.9	69.0	79.9	153.2
122.5°	73.0	84.7	149.1	277.6	332.3	277.6	149.1	84.7	73.0	84.7	149.1
125°	80.1	91.1	149.1	260.8	308.4	260.8	149.1	91.1	80.1	91.1	149.1
127.5°	86.0	97.1	149.3	241.3	288.3	241.3	149.3	97.1	86.0	97.1	149.3
130°	89.3	101.2	150.1	228.3	272.9	228.3	150.1	101.2	89.3	101.2	150.1
132.5°	93.3	105.2	150.1	222.4	259.1	222.4	150.1	105.2	93.3	105.2	150.1
135°	99.4	110.3	150.1	214.8	246.5	214.8	150.1	110.3	99.4	110.3	150.1
137.5°	104.5	116.2	150.1	206.4	233.5	206.4	150.1	116.2	104.5	116.2	150.1
140°	108.6	119.5	150.1	201.4	226.2	201.4	150.1	119.5	108.6	119.5	150.1
142.5°	112.6	122.7	151.0	195.7	218.9	195.7	151.0	122.7	112.6	122.7	151.0
145°	117.7	127.6	151.2	187.1	207.0	187.1	151.2	127.6	117.7	127.6	151.2
147.5°	123.8	132.5	152.4	180.9	196.2	180.9	152.4	132.5	123.8	132.5	152.4
150°	127.8	135.8	153.2	176.8	189.7	176.8	153.2	135.8	127.8	135.8	153.2
152.5°	131.9	139.0	153.2	173.5	184.0	173.5	153.2	139.0	131.9	139.0	153.2
155°	138.0	142.9	154.2	169.6	177.5	169.6	154.2	142.9	138.0	142.9	154.2
157.5°	142.8	147.6	155.4	167.1	172.9	167.1	155.4	147.6	142.8	147.6	155.4
160°	146.1	150.1	156.2	165.5	170.4	165.5	156.2	150.1	146.1	150.1	156.2
162.5°	148.5	152.5	157.0	164.6	168.0	164.6	157.0	152.5	148.5	152.5	157.0
165°	153.2	155.2	158.3	162.4	165.4	162.4	158.3	155.2	153.2	155.2	158.3
167.5°	155.8	157.6	159.3	161.3	163.1	161.3	159.3	157.6	155.8	157.6	159.3
170°	158.3	159.3	159.3	161.3	162.3	161.3	159.3	159.3	158.3	159.3	159.3
172.5°	159.1	160.9	160.1	160.5	161.5	160.5	160.1	160.9	159.1	160.9	160.1
175°	161.3	162.3	161.3	160.3	159.3	160.3	161.3	162.3	161.3	162.3	161.3
177.5°	161.3	162.1	161.3	161.3	160.5	161.3	161.3	162.1	161.3	162.1	161.3
180°	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3	161.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	653.8	653.8	653.8	653.8	653.8	653.8
2.5°	611.2	610.7	611.7	620.8	639.3	655.9
5°	556.7	558.7	560.6	576.0	608.2	652.5
7.5°	514.8	512.0	516.4	541.4	581.0	644.5
10°	486.0	479.5	486.0	520.1	566.3	636.5
12.5°	458.9	450.8	460.9	498.3	554.1	625.8
15°	423.8	431.6	427.1	468.9	535.7	607.2
17.5°	432.1	471.4	440.5	443.3	517.4	588.1
20°	451.8	492.2	464.9	426.3	505.7	572.6
22.5°	469.7	500.1	475.4	412.0	493.9	558.8
25°	483.4	509.5	482.1	399.1	476.9	535.4
27.5°	484.1	487.8	484.4	398.0	455.8	512.1
30°	475.2	459.6	473.9	399.1	440.8	493.5
32.5°	449.6	431.9	444.1	396.9	425.7	469.0
35°	413.2	389.7	406.6	385.8	402.3	427.7
37.5°	374.7	345.0	368.5	363.7	382.3	372.2
40°	348.7	296.6	343.5	341.9	371.4	325.9
42.5°	315.3	271.1	310.6	324.3	359.4	299.8
45°	254.6	249.4	252.0	294.6	333.8	273.4
47.5°	232.8	229.3	231.5	267.6	305.0	261.8
50°	220.0	215.5	218.7	250.1	286.5	252.7
52.5°	202.3	189.9	201.0	226.1	267.5	237.8
55°	152.1	115.1	151.5	198.9	238.8	212.8
57.5°	89.3	66.5	87.3	173.1	202.4	186.4
60°	60.4	55.9	61.1	152.3	178.1	170.9
62.5°	55.2	53.7	55.3	106.0	156.4	155.5
65°	50.5	49.9	50.5	61.2	129.1	133.0
67.5°	45.7	45.1	46.3	47.0	101.9	110.1
70°	42.6	41.9	42.6	43.2	78.2	95.8
72.5°	38.8	38.2	38.8	39.5	55.0	81.9
75°	33.2	32.6	33.2	33.9	36.5	61.9
77.5°	26.9	26.9	27.5	27.5	25.5	43.0
80°	22.6	22.6	23.3	23.3	22.2	31.3
82.5°	18.3	17.8	19.0	19.6	18.3	22.2
85°	11.3	10.6	11.9	12.6	11.9	10.6
87.5°	4.9	4.3	5.4	6.3	6.0	3.2
90°	3.0	3.0	3.0	2.0	1.0	0.0
92.5°	6.3	7.1	6.3	4.5	3.4	2.4
95°	9.2	11.2	9.2	8.1	15.1	8.1
97.5°	17.6	15.2	17.6	59.7	28.9	14.4
100°	35.2	23.3	35.2	119.7	36.1	19.3
102.5°	93.0	50.9	93.0	161.9	41.8	24.1
105°	234.6	155.2	234.6	183.6	48.3	31.4
107.5°	341.4	319.8	341.4	175.3	51.5	38.8
110°	358.7	385.5	358.7	170.4	55.5	43.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	348.6	393.6	348.6	165.6	60.4	48.5
115°	328.9	384.5	328.9	158.3	67.7	55.8
117.5°	307.7	364.8	307.7	156.4	75.0	63.3
120°	291.5	351.0	291.5	153.2	79.9	69.0
122.5°	277.6	332.3	277.6	149.1	84.7	73.0
125°	260.8	308.4	260.8	149.1	91.1	80.1
127.5°	241.3	288.3	241.3	149.3	97.1	86.0
130°	228.3	272.9	228.3	150.1	101.2	89.3
132.5°	222.4	259.1	222.4	150.1	105.2	93.3
135°	214.8	246.5	214.8	150.1	110.3	99.4
137.5°	206.4	233.5	206.4	150.1	116.2	104.5
140°	201.4	226.2	201.4	150.1	119.5	108.6
142.5°	195.7	218.9	195.7	151.0	122.7	112.6
145°	187.1	207.0	187.1	151.2	127.6	117.7
147.5°	180.9	196.2	180.9	152.4	132.5	123.8
150°	176.8	189.7	176.8	153.2	135.8	127.8
152.5°	173.5	184.0	173.5	153.2	139.0	131.9
155°	169.6	177.5	169.6	154.2	142.9	138.0
157.5°	167.1	172.9	167.1	155.4	147.6	142.8
160°	165.5	170.4	165.5	156.2	150.1	146.1
162.5°	164.6	168.0	164.6	157.0	152.5	148.5
165°	162.4	165.4	162.4	158.3	155.2	153.2
167.5°	161.3	163.1	161.3	159.3	157.6	155.8
170°	161.3	162.3	161.3	159.3	159.3	158.3
172.5°	160.5	161.5	160.5	160.1	160.9	159.1
175°	160.3	159.3	160.3	161.3	162.3	161.3
177.5°	161.3	160.5	161.3	161.3	162.1	161.3
180°	161.3	161.3	161.3	161.3	161.3	161.3

(END OF REPORT)