

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: P621587

Luminaire Tested: VLT-FA-025U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621587
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-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3008.7 lumens
Efficiency: N/A
Efficacy: 100.6 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

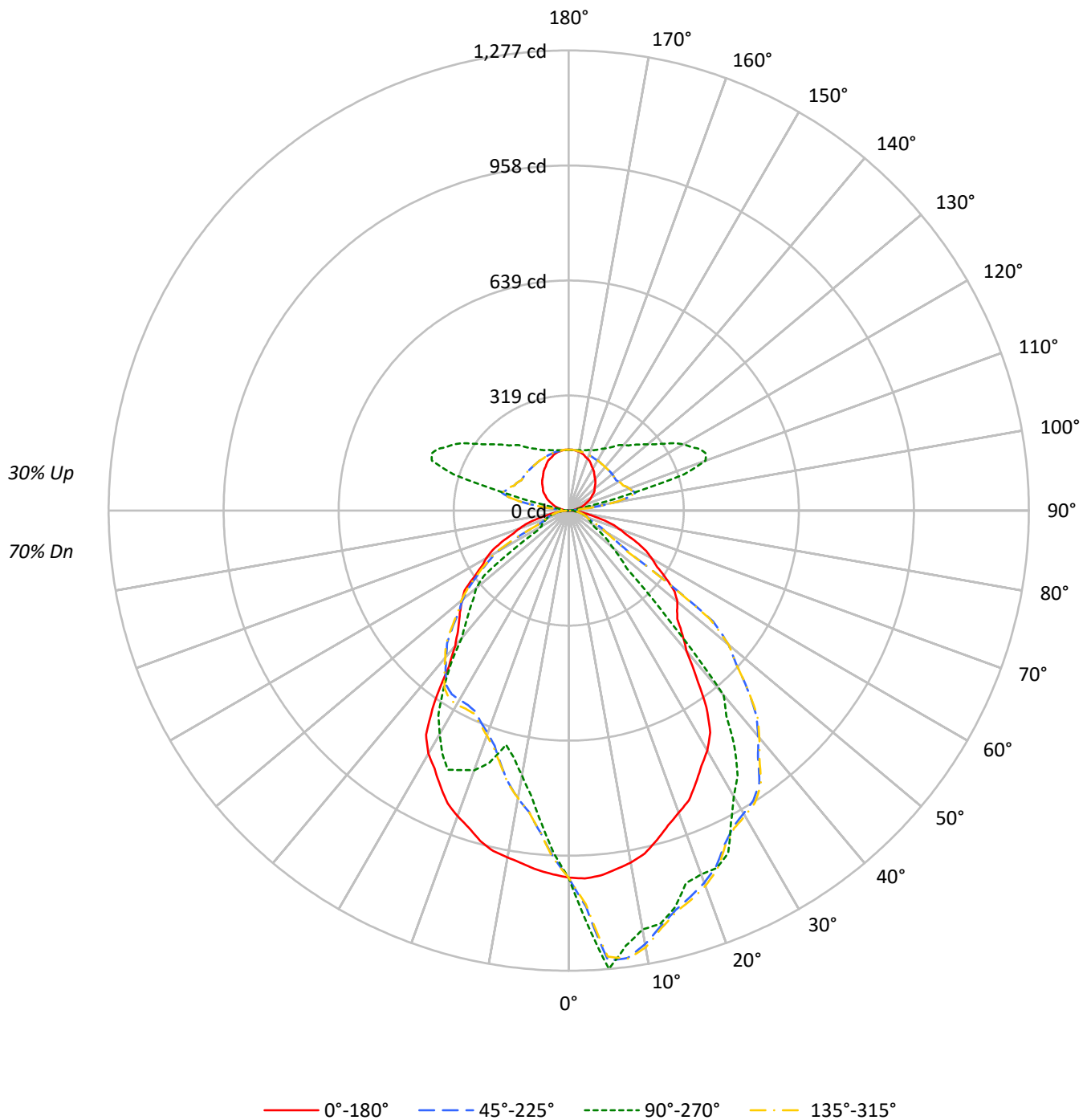
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94		84	84	84		74
1	103	99	96	93	98	94	91	88	85	82	80		76	74	72		68
2	95	88	82	78	90	84	79	74	76	72	68		68	65	62		61
3	88	79	72	66	83	75	69	64	68	63	59		61	57	54		55
4	81	70	63	57	76	67	60	55	61	55	51		55	51	47		50
5	75	63	56	50	70	60	53	48	55	49	45		50	45	42		45
6	69	57	49	44	65	55	48	42	50	44	40		46	41	37		42
7	64	52	44	39	61	50	43	38	46	40	36		42	37	33		38
8	60	48	40	35	57	46	39	34	42	36	32		39	34	30		35
9	56	44	36	31	53	42	35	31	39	33	29		36	31	27		33
10	52	40	33	29	50	39	32	28	36	30	26		33	28	25		30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7309	7309	7309	7309
5°	7322	9196	7210	6270
10°	7225	8600	7120	5444
15°	7028	8468	7051	4996
20°	6813	8205	6892	5856
25°	6604	8295	6678	6284
30°	6370	7590	6457	5933
35°	5837	7034	5692	5319
40°	4756	6260	4591	4329
45°	4322	2324	4364	3944
50°	4395	1769	4315	3748
55°	4149	1374	4006	2243
60°	3822	1056	3792	1249
65°	3518	1090	3449	1319
70°	3130	1152	3044	1370
75°	2673	1206	2556	1408
80°	2013	1240	1884	1455
85°	1367	1112	1194	1367

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8003 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.3
10°-20°	269.2	8.9
20°-30°	402.7	13.4
30°-40°	458.0	15.2
40°-50°	391.7	13.0
50°-60°	264.2	8.8
60°-70°	136.3	4.5
70°-80°	61.6	2.0
80°-90°	18.7	0.6
90°-100°	20.8	0.7
100°-110°	148.1	4.9
110°-120°	201.1	6.7
120°-130°	163.6	5.4
130°-140°	131.6	4.4
140°-150°	103.8	3.4
150°-160°	75.9	2.5
160°-170°	47.1	1.6
170°-180°	16.1	0.5
0°-30°	770.2	25.6
0°-40°	1228.2	40.8
0°-60°	1884.1	62.6
0°-90°	2100.7	69.8
90°-120°	369.9	12.3
90°-150°	769.0	25.6
90°-180°	908.0	30.2
0°-180°	3008.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1277	1001	870	1016	96
15°	946	1140	949	672	946	266
25°	834	1048	843	794	834	384
35°	666	803	650	607	666	407
45°	426	229	430	389	426	338
55°	332	110	320	179	332	295
65°	207	64	203	78	207	205
75°	96	44	92	51	96	103
85°	17	14	14	17	17	21
90°	0	3	0	3	0	1
95°	8	12	8	12	8	10
105°	33	163	33	163	33	35
115°	58	403	58	403	58	58
125°	84	323	84	323	84	75
135°	104	258	104	258	104	80
145°	123	217	123	217	123	77
155°	145	186	145	186	145	66
165°	160	173	160	173	160	45
175°	169	167	169	167	169	16
180°	169	169	169	169	169	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	1021.9	1056.7	1100.6	1130.8	1143.7	1130.8	1093.2	1056.5	1010.3	996.5	963.9
5°	1016.5	1123.9	1253.8	1269.5	1276.6	1269.5	1242.4	1117.5	1000.9	951.3	897.3
7.5°	1004.1	1191.9	1252.3	1217.3	1217.5	1224.0	1254.2	1186.1	987.9	909.9	843.7
10°	991.6	1229.7	1221.7	1171.1	1180.2	1176.2	1231.0	1222.3	977.1	886.9	811.3
12.5°	975.0	1241.5	1181.0	1164.5	1174.4	1168.7	1187.0	1235.1	968.0	870.5	774.0
15°	946.0	1224.6	1147.0	1139.8	1139.8	1144.9	1152.2	1229.8	949.1	840.7	728.4
17.5°	916.2	1191.0	1123.4	1087.5	1083.6	1090.3	1131.9	1199.6	922.4	807.7	684.3
20°	892.1	1167.7	1099.4	1057.3	1074.5	1059.3	1108.7	1174.0	902.5	787.0	656.9
22.5°	870.6	1138.9	1068.7	1050.8	1073.7	1051.2	1077.2	1145.1	879.3	763.8	636.2
25°	834.1	1090.4	1022.7	1039.5	1047.6	1039.5	1026.8	1094.7	843.4	734.0	614.5
27.5°	797.9	1039.4	988.3	999.6	974.8	993.9	993.9	1039.6	806.6	699.4	607.8
30°	768.8	1003.9	970.9	954.5	916.0	946.4	978.1	1004.1	779.2	676.9	606.2
32.5°	730.7	971.4	953.5	896.8	872.0	892.7	961.6	970.8	736.9	656.5	604.5
35°	666.3	925.6	922.2	828.4	803.0	822.3	929.4	923.2	649.7	624.4	591.7
37.5°	579.8	884.8	862.3	759.2	718.9	754.2	869.1	880.4	546.5	594.9	561.6
40°	507.7	857.3	817.5	707.8	668.3	702.8	822.7	854.8	490.1	574.2	528.4
42.5°	467.1	832.9	770.3	653.4	408.9	645.1	775.5	829.8	455.3	547.5	499.4
45°	425.9	788.6	701.5	361.7	229.0	344.5	702.5	777.5	430.0	507.0	454.9
47.5°	407.8	734.1	629.6	217.9	193.4	211.6	629.0	722.1	408.0	466.4	412.4
50°	393.7	699.7	578.2	192.0	158.5	184.9	579.2	688.4	386.5	439.2	383.4
52.5°	370.5	658.7	504.4	159.1	137.0	155.2	492.2	645.8	364.1	409.5	346.9
55°	331.6	579.8	210.3	125.0	109.8	120.0	200.0	560.3	320.2	362.7	304.6
57.5°	290.3	493.6	147.6	97.3	85.2	96.3	146.5	473.8	284.9	307.2	265.7
60°	266.3	435.5	120.2	81.7	73.6	80.7	119.2	418.2	264.2	270.3	230.0
62.5°	242.3	376.6	99.5	71.9	69.4	70.8	99.3	357.7	238.5	238.9	162.1
65°	207.2	285.2	73.6	65.3	64.2	64.2	71.5	275.0	203.1	197.0	93.3
67.5°	171.6	204.8	59.1	60.1	59.1	59.1	58.0	199.1	167.4	157.1	70.5
70°	149.2	157.3	54.9	55.9	54.9	54.9	53.9	153.2	145.1	121.8	66.3
72.5°	127.7	107.4	50.8	51.0	50.8	50.8	49.7	100.8	123.5	85.6	60.5
75°	96.4	53.8	43.5	43.5	43.5	43.5	42.5	51.7	92.2	55.7	51.8
77.5°	66.9	35.5	36.1	35.9	35.9	35.0	35.0	35.2	63.0	38.5	41.9
80°	48.7	29.5	31.1	30.0	30.0	30.0	30.0	28.4	45.6	32.4	35.2
82.5°	34.6	23.5	25.3	24.2	24.2	24.2	24.2	23.2	31.5	26.4	28.6
85°	16.6	15.6	16.6	14.5	13.5	14.5	15.5	15.5	14.5	17.5	18.7
87.5°	5.0	7.6	7.1	5.6	5.6	5.6	6.2	6.8	4.1	8.4	7.9
90°	0.0	1.0	2.1	3.2	3.2	3.2	2.1	1.0	0.0	1.0	2.1
92.5°	2.6	3.6	4.7	6.6	7.4	6.6	4.7	3.6	2.6	3.6	4.7
95°	8.5	15.8	8.5	9.6	11.7	9.6	8.5	15.8	8.5	15.8	8.5
97.5°	15.1	30.3	62.5	18.4	15.9	18.4	62.5	30.3	15.1	30.3	62.5
100°	20.2	37.9	125.5	36.9	24.5	36.9	125.5	37.9	20.2	37.9	125.5
102.5°	25.3	43.8	169.7	97.4	53.4	97.4	169.7	43.8	25.3	43.8	169.7
105°	33.0	50.6	192.4	245.8	162.7	245.8	192.4	50.6	33.0	50.6	192.4
107.5°	40.6	53.9	183.7	357.8	335.1	357.8	183.7	53.9	40.6	53.9	183.7
110°	45.7	58.2	178.6	375.9	404.0	375.9	178.6	58.2	45.7	58.2	178.6

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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°	50.8	63.3	173.5	365.3	412.5	365.3	173.5	63.3	50.8	63.3	173.5
115°	58.5	70.9	165.9	344.7	402.9	344.7	165.9	70.9	58.5	70.9	165.9
117.5°	66.3	78.6	163.9	322.4	382.3	322.4	163.9	78.6	66.3	78.6	163.9
120°	72.3	83.7	160.5	305.5	367.9	305.5	160.5	83.7	72.3	83.7	160.5
122.5°	76.5	88.8	156.3	290.9	348.3	290.9	156.3	88.8	76.5	88.8	156.3
125°	84.0	95.4	156.3	273.3	323.2	273.3	156.3	95.4	84.0	95.4	156.3
127.5°	90.2	101.8	156.5	252.9	302.2	252.9	156.5	101.8	90.2	101.8	156.5
130°	93.6	106.0	157.4	239.2	286.0	239.2	157.4	106.0	93.6	106.0	157.4
132.5°	97.8	110.3	157.4	233.1	271.5	233.1	157.4	110.3	97.8	110.3	157.4
135°	104.2	115.6	157.4	225.1	258.4	225.1	157.4	115.6	104.2	115.6	157.4
137.5°	109.5	121.8	157.4	216.3	244.7	216.3	157.4	121.8	109.5	121.8	157.4
140°	113.8	125.2	157.4	211.1	237.1	211.1	157.4	125.2	113.8	125.2	157.4
142.5°	118.0	128.6	158.2	205.1	229.4	205.1	158.2	128.6	118.0	128.6	158.2
145°	123.3	133.7	158.4	196.1	216.9	196.1	158.4	133.7	123.3	133.7	158.4
147.5°	129.7	138.9	159.7	189.6	205.6	189.6	159.7	138.9	129.7	138.9	159.7
150°	134.0	142.3	160.5	185.3	198.8	185.3	160.5	142.3	134.0	142.3	160.5
152.5°	138.2	145.7	160.5	181.8	192.9	181.8	160.5	145.7	138.2	145.7	160.5
155°	144.6	149.8	161.6	177.7	186.1	177.7	161.6	149.8	144.6	149.8	161.6
157.5°	149.7	154.7	162.9	175.1	181.2	175.1	162.9	154.7	149.7	154.7	162.9
160°	153.1	157.3	163.7	173.4	178.6	173.4	163.7	157.3	153.1	157.3	163.7
162.5°	155.7	159.8	164.6	172.5	176.1	172.5	164.6	159.8	155.7	159.8	164.6
165°	160.5	162.6	165.9	170.2	173.3	170.2	165.9	162.6	160.5	162.6	165.9
167.5°	163.3	165.2	166.9	169.1	171.0	169.1	166.9	165.2	163.3	165.2	166.9
170°	165.9	166.9	166.9	169.1	170.1	169.1	166.9	166.9	165.9	166.9	166.9
172.5°	166.7	168.6	167.8	168.2	169.3	168.2	167.8	168.6	166.7	168.6	167.8
175°	169.0	170.1	169.0	168.0	166.9	168.0	169.0	170.1	169.0	170.1	169.0
177.5°	169.0	169.9	169.0	169.0	168.2	169.0	169.0	169.9	169.0	169.9	169.0
180°	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1018.6	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	952.2	951.4	953.0	967.2	995.9	1021.9
5°	867.3	870.4	873.4	897.3	947.6	1016.5
7.5°	802.1	797.6	804.5	843.4	905.2	1004.1
10°	757.2	747.1	757.2	810.3	882.2	991.6
12.5°	714.9	702.3	718.1	776.3	863.2	975.0
15°	660.3	672.5	665.4	730.5	834.6	946.0
17.5°	673.2	734.4	686.2	690.7	806.2	916.2
20°	704.0	766.8	724.2	664.2	787.8	892.1
22.5°	731.8	779.2	740.7	641.8	769.5	870.6
25°	753.2	793.7	751.2	621.7	742.9	834.1
27.5°	754.3	759.9	754.7	620.0	710.1	797.9
30°	740.3	716.0	738.3	621.7	686.8	768.8
32.5°	700.4	672.9	691.9	618.4	663.2	730.7
35°	643.7	607.2	633.5	601.0	626.7	666.3
37.5°	583.8	537.6	574.0	566.6	595.6	579.8
40°	543.2	462.1	535.1	532.6	578.6	507.7
42.5°	491.2	422.3	483.9	505.2	559.9	467.1
45°	396.7	388.6	392.6	459.0	520.1	425.9
47.5°	362.7	357.3	360.7	417.0	475.1	407.8
50°	342.8	335.7	340.8	389.6	446.4	393.7
52.5°	315.2	295.9	313.2	352.3	416.7	370.5
55°	237.0	179.3	236.0	309.8	372.1	331.6
57.5°	139.1	103.6	136.0	269.6	315.3	290.3
60°	94.1	87.0	95.1	237.3	277.4	266.3
62.5°	86.0	83.7	86.2	165.2	243.7	242.3
65°	78.7	77.7	78.7	95.3	201.2	207.2
67.5°	71.3	70.3	72.1	73.2	158.8	171.6
70°	66.3	65.3	66.3	67.4	121.9	149.2
72.5°	60.5	59.5	60.5	61.5	85.7	127.7
75°	51.8	50.8	51.8	52.8	56.9	96.4
77.5°	41.9	41.9	42.9	42.9	39.8	66.9
80°	35.2	35.2	36.2	36.3	34.5	48.7
82.5°	28.6	27.8	29.6	30.5	28.5	34.6
85°	17.6	16.6	18.6	19.7	18.6	16.6
87.5°	7.3	6.4	8.1	9.5	9.2	5.0
90°	3.2	3.2	3.2	2.1	1.0	0.0
92.5°	6.6	7.4	6.6	4.7	3.6	2.6
95°	9.6	11.7	9.6	8.5	15.8	8.5
97.5°	18.4	15.9	18.4	62.5	30.3	15.1
100°	36.9	24.5	36.9	125.5	37.9	20.2
102.5°	97.4	53.4	97.4	169.7	43.8	25.3
105°	245.8	162.7	245.8	192.4	50.6	33.0
107.5°	357.8	335.1	357.8	183.7	53.9	40.6
110°	375.9	404.0	375.9	178.6	58.2	45.7



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	365.3	412.5	365.3	173.5	63.3	50.8
115°	344.7	402.9	344.7	165.9	70.9	58.5
117.5°	322.4	382.3	322.4	163.9	78.6	66.3
120°	305.5	367.9	305.5	160.5	83.7	72.3
122.5°	290.9	348.3	290.9	156.3	88.8	76.5
125°	273.3	323.2	273.3	156.3	95.4	84.0
127.5°	252.9	302.2	252.9	156.5	101.8	90.2
130°	239.2	286.0	239.2	157.4	106.0	93.6
132.5°	233.1	271.5	233.1	157.4	110.3	97.8
135°	225.1	258.4	225.1	157.4	115.6	104.2
137.5°	216.3	244.7	216.3	157.4	121.8	109.5
140°	211.1	237.1	211.1	157.4	125.2	113.8
142.5°	205.1	229.4	205.1	158.2	128.6	118.0
145°	196.1	216.9	196.1	158.4	133.7	123.3
147.5°	189.6	205.6	189.6	159.7	138.9	129.7
150°	185.3	198.8	185.3	160.5	142.3	134.0
152.5°	181.8	192.9	181.8	160.5	145.7	138.2
155°	177.7	186.1	177.7	161.6	149.8	144.6
157.5°	175.1	181.2	175.1	162.9	154.7	149.7
160°	173.4	178.6	173.4	163.7	157.3	153.1
162.5°	172.5	176.1	172.5	164.6	159.8	155.7
165°	170.2	173.3	170.2	165.9	162.6	160.5
167.5°	169.1	171.0	169.1	166.9	165.2	163.3
170°	169.1	170.1	169.1	166.9	166.9	165.9
172.5°	168.2	169.3	168.2	167.8	168.6	166.7
175°	168.0	166.9	168.0	169.0	170.1	169.0
177.5°	169.0	168.2	169.0	169.0	169.9	169.0
180°	169.0	169.0	169.0	169.0	169.0	169.0

(END OF REPORT)