

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P621586

Luminaire Tested: VLT-FA-025U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621586
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-930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

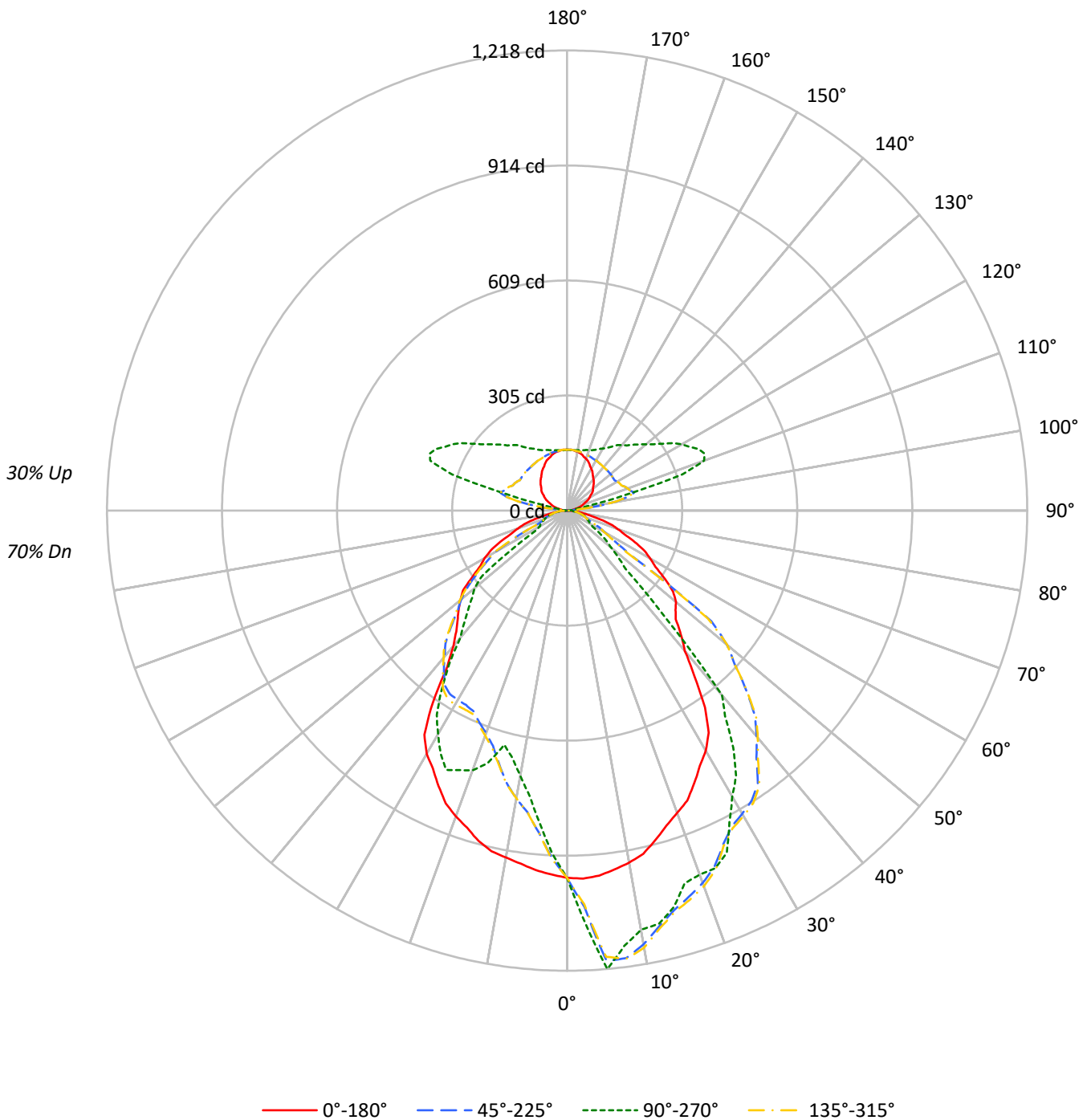
Lumens per Lamp: N/A
Luminaire Lumens: 2870.9 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (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			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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	99	96	93	98	94	91	88	85	82	80	76	74	72	68	66	65	61
2	95	88	82	78	90	84	79	74	76	72	68	68	65	62	61	59	57	53
3	88	79	72	66	83	75	69	64	68	63	59	61	57	54	55	52	50	46
4	81	70	63	57	76	67	60	55	61	55	51	55	51	47	50	46	44	41
5	75	63	56	50	70	61	53	48	55	49	45	50	45	42	45	42	39	36
6	69	57	49	44	65	55	48	42	50	44	40	46	41	37	42	38	35	32
7	64	52	44	39	61	50	43	38	46	40	36	42	37	33	38	34	31	29
8	60	48	40	35	57	46	39	34	42	36	32	39	34	30	35	31	28	26
9	56	44	36	31	53	42	35	31	39	33	29	36	31	27	33	29	26	24
10	52	40	33	29	50	39	32	28	36	30	26	33	28	25	30	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6974	6974	6974	6974
5°	6987	8774	6880	5982
10°	6895	8206	6794	5195
15°	6706	8080	6729	4767
20°	6501	7830	6577	5588
25°	6302	7915	6372	5997
30°	6079	7242	6161	5661
35°	5570	6713	5430	5076
40°	4539	5974	4381	4131
45°	4124	2217	4164	3763
50°	4194	1689	4117	3576
55°	3958	1311	3822	2139
60°	3647	1008	3618	1193
65°	3357	1041	3291	1260
70°	2988	1099	2904	1307
75°	2551	1151	2440	1342
80°	1922	1186	1798	1389
85°	1301	1062	1136	1301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.3
10°-20°	256.8	8.9
20°-30°	384.3	13.4
30°-40°	437.1	15.2
40°-50°	373.8	13.0
50°-60°	252.1	8.8
60°-70°	130.1	4.5
70°-80°	58.7	2.0
80°-90°	17.8	0.6
90°-100°	19.8	0.7
100°-110°	141.3	4.9
110°-120°	191.9	6.7
120°-130°	156.1	5.4
130°-140°	125.6	4.4
140°-150°	99.0	3.4
150°-160°	72.4	2.5
160°-170°	45.0	1.6
170°-180°	15.3	0.5
0°-30°	734.9	25.6
0°-40°	1172.0	40.8
0°-60°	1797.8	62.6
0°-90°	2004.5	69.8
90°-120°	353.0	12.3
90°-150°	733.8	25.6
90°-180°	866.0	30.2
0°-180°	2870.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	970	1218	955	830	970	92
15°	903	1088	906	642	903	254
25°	796	1000	805	757	796	366
35°	636	766	620	579	636	389
45°	406	218	410	371	406	322
55°	316	105	306	171	316	282
65°	198	61	194	74	198	195
75°	92	42	88	48	92	98
85°	16	13	14	16	16	20
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°	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	975.1	1008.3	1050.2	1079.0	1091.4	1079.0	1043.1	1008.1	964.0	950.9	919.7
5°	969.9	1072.4	1196.4	1211.3	1218.1	1211.3	1185.5	1066.3	955.1	907.7	856.2
7.5°	958.1	1137.3	1195.0	1161.6	1161.8	1167.9	1196.8	1131.7	942.7	868.2	805.0
10°	946.2	1173.4	1165.7	1117.5	1126.2	1122.3	1174.6	1166.3	932.4	846.3	774.2
12.5°	930.4	1184.6	1127.0	1111.1	1120.6	1115.2	1132.7	1178.5	923.7	830.7	738.6
15°	902.7	1168.6	1094.5	1087.6	1087.6	1092.4	1099.5	1173.5	905.7	802.2	695.1
17.5°	874.2	1136.4	1072.0	1037.7	1034.0	1040.4	1080.1	1144.7	880.2	770.7	653.0
20°	851.3	1114.3	1049.0	1008.9	1025.3	1010.8	1057.9	1120.3	861.2	751.0	626.9
22.5°	830.7	1086.7	1019.8	1002.7	1024.5	1003.1	1027.9	1092.7	839.0	728.8	607.1
25°	795.9	1040.5	975.9	991.9	999.6	991.9	979.8	1044.6	804.8	700.4	586.3
27.5°	761.3	991.8	943.0	953.8	930.2	948.4	948.4	992.0	769.6	667.3	580.0
30°	733.6	957.9	926.4	910.8	874.0	903.0	933.4	958.1	743.5	645.9	578.4
32.5°	697.3	927.0	909.8	855.7	832.1	851.8	917.5	926.3	703.2	626.4	576.8
35°	635.8	883.2	880.0	790.4	766.3	784.6	886.9	881.0	619.9	595.8	564.6
37.5°	553.3	844.3	822.8	724.5	686.0	719.6	829.3	840.1	521.5	567.7	535.9
40°	484.5	818.0	780.1	675.4	637.7	670.6	785.0	815.7	467.7	547.9	504.3
42.5°	445.7	794.7	735.0	623.5	390.2	615.6	740.0	791.8	434.4	522.4	476.6
45°	406.4	752.5	669.4	345.2	218.5	328.7	670.4	741.9	410.3	483.8	434.1
47.5°	389.2	700.5	600.8	207.9	184.5	201.9	600.2	689.1	389.4	445.0	393.5
50°	375.7	667.7	551.7	183.2	151.3	176.4	552.7	656.9	368.8	419.1	365.8
52.5°	353.6	628.5	481.3	151.8	130.7	148.1	469.6	616.2	347.4	390.7	331.0
55°	316.4	553.2	200.7	119.3	104.8	114.5	190.8	534.6	305.5	346.1	290.7
57.5°	277.0	471.0	140.8	92.9	81.3	91.9	139.8	452.1	271.9	293.2	253.5
60°	254.1	415.6	114.7	77.9	70.2	77.0	113.7	399.1	252.1	257.9	219.5
62.5°	231.2	359.4	94.9	68.6	66.2	67.6	94.7	341.3	227.6	228.0	154.6
65°	197.7	272.2	70.2	62.3	61.3	61.3	68.2	262.4	193.8	188.0	89.0
67.5°	163.7	195.4	56.4	57.3	56.4	56.4	55.4	189.9	159.8	149.9	67.2
70°	142.4	150.1	52.4	53.4	52.4	52.4	51.4	146.2	138.4	116.2	63.3
72.5°	121.8	102.5	48.4	48.6	48.4	48.4	47.5	96.2	117.9	81.7	57.7
75°	92.0	51.3	41.5	41.5	41.5	41.5	40.5	49.3	88.0	53.2	49.4
77.5°	63.9	33.9	34.4	34.2	34.2	33.4	33.4	33.6	60.1	36.7	39.9
80°	46.5	28.1	29.7	28.7	28.7	28.7	28.7	27.1	43.5	30.9	33.6
82.5°	33.0	22.4	24.1	23.1	23.1	23.1	23.1	22.1	30.1	25.2	27.3
85°	15.8	14.9	15.8	13.8	12.9	13.8	14.8	14.8	13.8	16.7	17.8
87.5°	4.7	7.3	6.7	5.4	5.4	5.4	5.9	6.5	4.0	8.0	7.5
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°	971.9	971.9	971.9	971.9	971.9	971.9
2.5°	908.6	907.8	909.4	922.9	950.3	975.1
5°	827.6	830.5	833.4	856.2	904.2	969.9
7.5°	765.4	761.1	767.7	804.8	863.7	958.1
10°	722.5	712.9	722.5	773.2	841.8	946.2
12.5°	682.1	670.2	685.2	740.8	823.7	930.4
15°	630.1	641.7	634.9	697.1	796.4	902.7
17.5°	642.4	700.8	654.8	659.1	769.2	874.2
20°	671.7	731.7	691.1	633.8	751.7	851.3
22.5°	698.3	743.5	706.8	612.4	734.2	830.7
25°	718.7	757.4	716.8	593.2	708.9	795.9
27.5°	719.7	725.1	720.1	591.7	677.6	761.3
30°	706.4	683.2	704.5	593.2	655.3	733.6
32.5°	668.4	642.1	660.3	590.1	632.9	697.3
35°	614.2	579.4	604.5	573.5	598.0	635.8
37.5°	557.0	513.0	547.8	540.6	568.4	553.3
40°	518.3	441.0	510.6	508.2	552.1	484.5
42.5°	468.7	403.0	461.8	482.1	534.3	445.7
45°	378.5	370.8	374.6	438.0	496.3	406.4
47.5°	346.1	340.9	344.2	397.9	453.4	389.2
50°	327.1	320.3	325.2	371.8	426.0	375.7
52.5°	300.7	282.4	298.8	336.2	397.7	353.6
55°	226.2	171.0	225.2	295.6	355.1	316.4
57.5°	132.7	98.9	129.8	257.3	300.8	277.0
60°	89.8	83.1	90.8	226.4	264.7	254.1
62.5°	82.0	79.9	82.2	157.6	232.5	231.2
65°	75.1	74.2	75.1	91.0	191.9	197.7
67.5°	68.0	67.0	68.8	69.8	151.6	163.7
70°	63.3	62.3	63.3	64.3	116.3	142.4
72.5°	57.7	56.8	57.7	58.7	81.8	121.8
75°	49.4	48.4	49.4	50.4	54.2	92.0
77.5°	39.9	39.9	40.9	40.9	38.0	63.9
80°	33.6	33.6	34.6	34.6	32.9	46.5
82.5°	27.3	26.5	28.2	29.1	27.2	33.0
85°	16.8	15.8	17.8	18.8	17.8	15.8
87.5°	6.9	6.1	7.7	9.1	8.8	4.7
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)