

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: P621611

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621611
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-050U-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

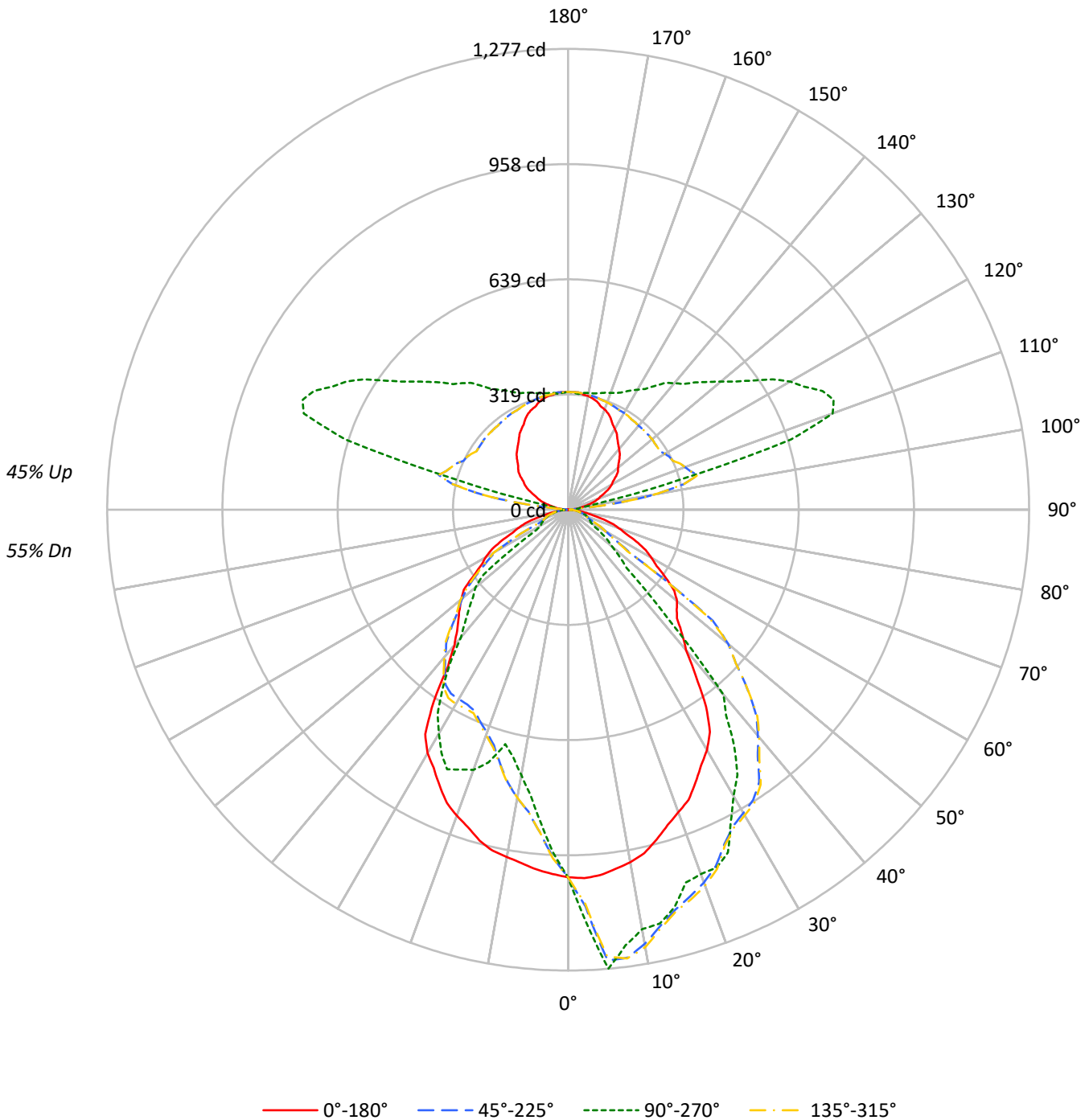
Lumens per Lamp: N/A
Luminaire Lumens: 3853.5 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.2
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55				
1	100	96	92	89	92	89	86	83	77	74	72	65	64	62	55	54	53	48				
2	92	85	79	74	85	79	74	70	68	65	61	58	56	53	49	47	46	41				
3	84	75	68	63	78	70	64	59	61	56	53	52	49	46	44	42	40	36				
4	77	67	60	54	72	63	56	51	55	50	46	47	43	40	40	37	35	32				
5	71	60	53	47	66	57	50	44	49	44	40	43	39	36	37	34	31	28				
6	66	54	47	41	61	51	44	39	45	39	35	39	35	31	34	30	28	25				
7	61	49	42	36	57	46	40	35	41	35	31	36	31	28	31	28	25	23				
8	57	45	37	32	53	42	36	31	37	32	28	33	28	25	28	25	23	20				
9	53	41	34	29	49	39	32	28	34	29	25	30	26	23	26	23	21	18				
10	50	38	31	26	46	36	29	25	32	27	23	28	24	21	24	21	19	17				

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	2.6
10°-20°	269.2	7.0
20°-30°	402.7	10.5
30°-40°	458.0	11.9
40°-50°	391.7	10.2
50°-60°	264.2	6.9
60°-70°	136.3	3.5
70°-80°	61.6	1.6
80°-90°	19.1	0.5
90°-100°	40.1	1.0
100°-110°	285.8	7.4
110°-120°	388.0	10.1
120°-130°	315.8	8.2
130°-140°	254.0	6.6
140°-150°	200.3	5.2
150°-160°	146.4	3.8
160°-170°	90.9	2.4
170°-180°	31.0	0.8
0°-30°	770.2	20.0
0°-40°	1228.2	31.9
0°-60°	1884.1	48.9
0°-90°	2101.0	54.5
90°-120°	714.0	18.5
90°-150°	1484.1	38.5
90°-180°	1752.0	45.5
0°-180°	3853.5	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	6	0	6	0	1
95°	16	23	16	23	16	18
105°	64	314	64	314	64	67
115°	113	778	113	778	113	112
125°	162	624	162	624	162	144
135°	201	499	201	499	201	155
145°	238	419	238	419	238	149
155°	279	359	279	359	279	128
165°	310	334	310	334	310	87
175°	326	322	326	322	326	31
180°	326	326	326	326	326	



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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	7.8	7.5	6.2	6.2	6.2	6.6	7.0	4.1	8.6	8.3
90°	0.0	2.0	4.1	6.2	6.2	6.2	4.1	2.0	0.0	2.0	4.1
92.5°	4.9	6.9	9.0	12.8	14.4	12.8	9.0	6.9	4.9	6.9	9.0
95°	16.4	30.5	16.4	18.6	22.6	18.6	16.4	30.5	16.4	30.5	16.4
97.5°	29.1	58.4	120.6	35.6	30.8	35.6	120.6	58.4	29.1	58.4	120.6
100°	39.0	73.1	242.1	71.3	47.2	71.3	242.1	73.1	39.0	73.1	242.1
102.5°	48.8	84.5	327.5	188.1	103.0	188.1	327.5	84.5	48.8	84.5	327.5
105°	63.6	97.7	371.4	474.4	313.9	474.4	371.4	97.7	63.6	97.7	371.4
107.5°	78.4	104.1	354.6	690.5	646.7	690.5	354.6	104.1	78.4	104.1	354.6
110°	88.2	112.3	344.7	725.5	779.7	725.5	344.7	112.3	88.2	112.3	344.7



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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°	98.1	122.2	334.9	705.0	796.1	705.0	334.9	122.2	98.1	122.2	334.9
115°	112.9	136.9	320.1	665.3	777.6	665.3	320.1	136.9	112.9	136.9	320.1
117.5°	128.0	151.7	316.4	622.3	737.8	622.3	316.4	151.7	128.0	151.7	316.4
120°	139.5	161.6	309.8	589.6	709.9	589.6	309.8	161.6	139.5	161.6	309.8
122.5°	147.7	171.4	301.6	561.4	672.2	561.4	301.6	171.4	147.7	171.4	301.6
125°	162.1	184.2	301.6	527.5	623.8	527.5	301.6	184.2	162.1	184.2	301.6
127.5°	174.0	196.5	302.0	488.0	583.1	488.0	302.0	196.5	174.0	196.5	302.0
130°	180.6	204.6	303.7	461.7	551.9	461.7	303.7	204.6	180.6	204.6	303.7
132.5°	188.8	212.8	303.7	449.8	524.0	449.8	303.7	212.8	188.8	212.8	303.7
135°	201.1	223.1	303.7	434.4	498.6	434.4	303.7	223.1	201.1	223.1	303.7
137.5°	211.3	235.0	303.7	417.4	472.3	417.4	303.7	235.0	211.3	235.0	303.7
140°	219.5	241.6	303.7	407.4	457.6	407.4	303.7	241.6	219.5	241.6	303.7
142.5°	227.8	248.2	305.3	395.8	442.8	395.8	305.3	248.2	227.8	248.2	305.3
145°	238.0	258.1	305.7	378.4	418.6	378.4	305.7	258.1	238.0	258.1	305.7
147.5°	250.3	268.0	308.2	365.9	396.8	365.9	308.2	268.0	250.3	268.0	308.2
150°	258.5	274.6	309.8	357.6	383.7	357.6	309.8	274.6	258.5	274.6	309.8
152.5°	266.7	281.2	309.8	350.9	372.2	350.9	309.8	281.2	266.7	281.2	309.8
155°	279.0	289.1	311.9	343.0	359.1	343.0	311.9	289.1	279.0	289.1	311.9
157.5°	288.9	298.5	314.3	338.0	349.6	338.0	314.3	298.5	288.9	298.5	314.3
160°	295.5	303.5	316.0	334.7	344.7	334.7	316.0	303.5	295.5	303.5	316.0
162.5°	300.4	308.4	317.6	333.0	339.8	333.0	317.6	308.4	300.4	308.4	317.6
165°	309.8	313.8	320.1	328.4	334.4	328.4	320.1	313.8	309.8	313.8	320.1
167.5°	315.2	318.8	322.1	326.3	329.9	326.3	322.1	318.8	315.2	318.8	322.1
170°	320.1	322.1	322.1	326.3	328.3	326.3	322.1	322.1	320.1	322.1	322.1
172.5°	321.7	325.3	323.8	324.6	326.7	324.6	323.8	325.3	321.7	325.3	323.8
175°	326.2	328.2	326.2	324.1	322.1	324.1	326.2	328.2	326.2	328.2	326.2
177.5°	326.2	327.8	326.2	326.2	324.6	326.2	326.2	327.8	326.2	327.8	326.2
180°	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2



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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°	7.8	7.0	8.7	9.9	9.4	5.0
90°	6.2	6.2	6.2	4.1	2.0	0.0
92.5°	12.8	14.4	12.8	9.0	6.9	4.9
95°	18.6	22.6	18.6	16.4	30.5	16.4
97.5°	35.6	30.8	35.6	120.6	58.4	29.1
100°	71.3	47.2	71.3	242.1	73.1	39.0
102.5°	188.1	103.0	188.1	327.5	84.5	48.8
105°	474.4	313.9	474.4	371.4	97.7	63.6
107.5°	690.5	646.7	690.5	354.6	104.1	78.4
110°	725.5	779.7	725.5	344.7	112.3	88.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	705.0	796.1	705.0	334.9	122.2	98.1
115°	665.3	777.6	665.3	320.1	136.9	112.9
117.5°	622.3	737.8	622.3	316.4	151.7	128.0
120°	589.6	709.9	589.6	309.8	161.6	139.5
122.5°	561.4	672.2	561.4	301.6	171.4	147.7
125°	527.5	623.8	527.5	301.6	184.2	162.1
127.5°	488.0	583.1	488.0	302.0	196.5	174.0
130°	461.7	551.9	461.7	303.7	204.6	180.6
132.5°	449.8	524.0	449.8	303.7	212.8	188.8
135°	434.4	498.6	434.4	303.7	223.1	201.1
137.5°	417.4	472.3	417.4	303.7	235.0	211.3
140°	407.4	457.6	407.4	303.7	241.6	219.5
142.5°	395.8	442.8	395.8	305.3	248.2	227.8
145°	378.4	418.6	378.4	305.7	258.1	238.0
147.5°	365.9	396.8	365.9	308.2	268.0	250.3
150°	357.6	383.7	357.6	309.8	274.6	258.5
152.5°	350.9	372.2	350.9	309.8	281.2	266.7
155°	343.0	359.1	343.0	311.9	289.1	279.0
157.5°	338.0	349.6	338.0	314.3	298.5	288.9
160°	334.7	344.7	334.7	316.0	303.5	295.5
162.5°	333.0	339.8	333.0	317.6	308.4	300.4
165°	328.4	334.4	328.4	320.1	313.8	309.8
167.5°	326.3	329.9	326.3	322.1	318.8	315.2
170°	326.3	328.3	326.3	322.1	322.1	320.1
172.5°	324.6	326.7	324.6	323.8	325.3	321.7
175°	324.1	322.1	324.1	326.2	328.2	326.2
177.5°	326.2	324.6	326.2	326.2	327.8	326.2
180°	326.2	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)